

AJMAN UNIVERSITY OF SCIENCE & TECHNOLOGY NETWORK

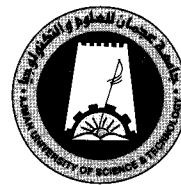


UNIVERSITY

PROSPECTUS

2005-2006

AJMAN UNIVERSITY OF SCIENCE & TECHNOLOGY NETWORK



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His Highness Sheikh Zayed Bin Sultan Al Nahayan

Founder of the United Arab Emirates



His Highness Sheikh Khalifa Bin Zayed Al Nahayan
President of the United Arab Emirates



His Highness Sheikh Humeid Bin Rashid Al Nuaimi

Member of the Supreme Council

Ruler of Ajman

Patron of Ajman University of Science and Technology Network

From The President

I am pleased to make this brief statement introducing the Ajman University of Science and Technology (AUST) Network. It was in 1988 that this institution was founded as a non-conventional lighthouse and a landmark in the history and development of higher education not only in the United Arab Emirates (UAE), but also in the Arab region and the world at large. In the process, the AUST Network anchored on its educational, informational and investment dimensions has managed against great odds to steer its course by virtue of its commitment to a comprehensive vision based on an elaborate and clearly formulated work-plan aiming to realize the noble objective of bringing into existence a Futuristic University. As we see it, a Futuristic University rests on the concept of education as an open system leading to the creation of a comprehensive innovative environment. One of the results and fruits of the adoption of this vision is that the AUST Network has firmly established itself as a house of expertise, providing the community and the whole region with distinguished and high-quality experts in a variety of fields.



One of the most notable merits of education as an open system is the breaking of the barrier between academia, the business community and Cyber Space. This is in addition to the utilization of modernized conventional educational methods and the elements of the virtual environment in the Cyber Zone, with its modern interactive tools. From the foregoing, the AUST Network was well placed to undertake the role of setting up its other three campuses in Abu Dhabi, Al-Ain and Fujairah as well as the Mediterranean University in Valencia, Spain. As a house of expertise, the AUST Network has also contributed to the establishment of two university colleges in Muscat and Salala in the Sultanate of Oman.

In addition, the AUST Network has taken the initiative in establishing the Association of Arab Private Institutions for Higher Education and the Euro-Arab Research Network, both of which I am honored to chair as a tribute to and a recognition of the decisive and distinguished part played by the AUST Network in their creation.

In close harmony with the age of information technology, we have spared no effort or cost in supporting the University Network with databases and their accompanying tools, including intranet, video-conferencing facilities, multimedia labs and the internet which interconnects the University Network campuses to each other and to the outside world in the framework of an effective virtual environment which has enriched the other two dimensions of the University Network- namely, the educational and investment dimensions.

Furthermore, the University Network has set up the Technosphere Centre of Excellence at its branches in Abu Dhabi and Fujairah as channels of communication between the academic community and the business and civil society. Usually, the University Network displays and executes its activities and projects through the organization of workshops, seminars and approach conferences, which it subsequently evaluates to ensure and guarantee the strict application of quality standards.

Upon entering the new millennium, the AUST Network is even more firmly committed, day-by-day, to the realization of the comprehensive innovative environment in higher education in the light of an equally comprehensive vision which draws its strength from precise and clear-cut executive plans and work programs, all of which have yielded tangible results on the ground in the three dimensions of education, information and investment.








That comprehensive vision could not have yielded those innovative and creative results except through the process of matching and eclecticism- through the selection of the best qualities of the various educational systems around us, which are then customized for the sake of the beneficiaries and users in the country and the region in realization of the concept of the university as an open system operating to make its expertise serve the cause of progress in all walks of life.

Assalamu alaikum.

Dr. Saeed Abdalla Salman

President, Ajman University of Science and Technology Network
President, Association of Arab Private Institutions for Higher Education
President, Euro-Arab Research Network

Contents

General Information	12
 Admissions and Registration	33
 Faculty of Business Administration	53
 Faculty of Computer Science and Computer Engineering	97
 Faculty of Dentistry	141
 Faculty of Engineering	161
 Faculty of Foreign Languages and Translation	217
 Faculty of Information, Mass Communication and Public Relations	243
Faculty of Pharmacy and Health Sciences	259

HISTORICAL NOTE

The idea of establishing the Ajman University of Science and Technology (AUST) Network came as an expression and a reflection of the special importance attached by His Highness Sheikh Zayed Bin Sultan Al Nahyan, the Founder of the United Arab Emirates (UAE) higher education, particularly in the area of science and technology. The establishment of the AUST Network can also be regarded as an embodiment of the UAE late President's directives concerning the expansion of the base of this type of education in order to qualify and turn out specialized technical cadres capable of satisfying the requirements of the country's ambitious developmental plans.

In full awareness of the whole of this context, and to complement the country's efforts in growth and development, His Highness Sheikh Humaid Bin Rashid Al-Nuaimi, Member of the Supreme Council, Ruler of Ajman, took the initiative and issued on 3 Dhil-Al-Qa'ida 1408 A.H. (Corresponding to 17th June 1988) the Emiri Decree No: 4/88 concerning the establishment of Ajman University College of Science and Technology (AUCST). The Emiri Decree in question envisages the college as a higher education institution enjoying His Highness's full patronage and, together with its counterparts among other higher education institutions in the country, making its contribution to and bearing part of the responsibility for construction, growth and the development of the nation.

This was followed by Decree No. 54 in 1994, issued by His Excellency Sheikh Nahyan Bin Mubarak Al Nahyan, the Minister of Higher Education and Scientific Research, concerning the licensing of Ajman University College of Science and Technology to operate in the field of higher education.

In 1977, His Excellency the Minister of Higher Education and Scientific Research also issued the ministerial Decree No. 54 concerning the transformation of Ajman University College into Ajman University of Science and Technology.

In a wider context, the Ajman University of Science and Technology Network was a founding member of the Association of Arab Private Institutions of Higher Education as well as the Euro-Arab Research Network (EARN).

On 13th April 1999, the Ajman University of Science and Technology Network joined the Association of Arab Universities.



GLOBAL VISION OF AUST NETWORK

Nations are not just in need of a multiplicity of universities. Instead, they need a vision that is capable of practical applications which can protect them against the disadvantages of globalization and enable them to harmonize with its advantages. Who am I? Who are we? Who is the other? Where is the identity of the nation to which the educational, informational and investment institution belongs?

The AUST Network is an educational, informational and investment institution that has specific and clearly set out objectives, chief among which is laying the ground for a comprehensive innovative environment through specific standards and regulations, with special emphasis on quality assurance and quality control. Doubtless, the innovative environment releases the potential energies of the teaching staff, students and employees to give their best and to innovate in all areas of tutoring, research, training, expertise and practice.

To realize this comprehensive innovative environment, it is imperative to ensure that the essential elements and fundamentals of innovations are available. Among these are the following:

- * the university as an open system;
- * the cyber zone;
- * the filing approach;
- * the quality and evaluation standards;
- * the pyramid model for implementing projects.

FIRST: THE UNIVERSITY AS AN OPEN SYSTEM

It combines the merits of both the modernized, conventional educational system and the modern, open educational system, and it makes use of entire modern technologies. As such, our methodology rests on four aspects, namely:

- * Breaking the barrier between the academic milieu and the business community by;
- * Matching and customization, eclecticism and customization for beneficiaries and users;
- * Modernized conventional methods; and
- * The virtual environment.

* BREAKING THE BARRIER BETWEEN ACADEMIA AND THE BUSINESS COMMUNITY

The openness of the AUST Network to the community has a mutually positive result. When the Network's activities including study plans, research efforts, training courses, approach seminars and conferences are linked with practical application as with changeable factors in the local and international arena and with the needs and

requirements of the labour market, this will certainly provide the business community with the qualified expertise that can contribute to the acceleration of development. Simultaneously, this process will nurture the university with intellectual and applied elements which can contribute to quality control and to the customization of study plans to the requirements of society, thus graduating cadres able to contribute directly to the business community.

Since its establishment, the AUST Network has been undertaking a great effort in breaking the barrier with the business community as it organizes approach seminars for each and every idea or project it intends to implement, and to which it invites the relevant business people and professionals. Through such approach seminars, ideas crystallize and they are monitored and used in activating the various areas of cooperation in a clear and fruitful way, which could lead to the organization of further common activities and purposeful conferences. From another angle, the outcomes of such activities can be used in updating and developing the university's study plans. Out of this is achieved a positive interaction between what is taught in the classroom and what is practiced in reality on the ground.

This leads, no doubt, to laying the ground for the innovative environment, which the University Network seeks to attain.

* MATCHING AND CUSTOMIZATION, ECLECTICISM AND CUSTOMIZATION FOR BENEFICIARIES AND USERS

Education must open up to all past and present educational systems in order to interact sooner rather than later with international innovations, modern inventions and technological developments. This openness can ensure and guarantee the graduation of cadres capable of constant development, matching and customization of the innovations and inventions of the age in the areas of application. At the same time, there must be a preservation of identity, culture, and traditions. In addition, and to ensure the purposefulness of the educational process, there must be an orientation and translation of education to applied examples related to the local environment in order to reinforce the preparation of learners for the immediate engagement with the business and work environment.

To realize these qualities, the University Network has adopted the matching, eclecticism and customization method, which includes the following:

1. Matching and Customization, which is a preliminary interaction and customization of all that goes on in the world in terms of educational systems and related activities.

2. Eclecticism, which is a strict identification of what goes on in education in terms of visions, ideas, applications of educational systems, and the selection of their best qualities and the avoidance of their disadvantages. Eclecticism can be horizontal (by selecting the best of the educational systems diachronically) and vertical (by selecting the best of the fast-growing contemporary educational systems synchronically).

3. Customization for beneficiaries and users; which is the end-product of the selection process and the integration of all the elements extracted from the various systems into the educational and training plans while taking into account the question of values, customs, culture and history so that the customized product becomes ready-made for the beneficiaries and users in a strictly integrated form.

* MODERNIZED CONVENTIONAL METHODS

The University Network undertakes constant updating and development of conventional educational and learning methods in such a way as to suit the standard of students and to fulfill the objectives of study plans. Among educational methods used are problem solving and problem-based learning. Also, computer programs and audio-visual aids are integrated in such a way as to guarantee the attainment of the best outputs of the educational process.

The updating and development of those methods preserves the quality of direct interaction between teacher and student and also between student and student, which entrenches the concept of tradition and learning by ideals and values in addition to giving the teacher the chance to correct students' errors, behavior and concepts through direct discussion. Moreover, the updating of conventional methods through the selection of innovations and theories in learning and education coupled with the adaptation of methods such as video, audio, transparencies and coloured slides - all of this shortens the time required to communicate information, contributes to the delivery of lectures in a better and more focused way and enriches the discussion process with a wealth of information.

To realize this, the Ajman University of Science and Technology Network has set up the Educational Technology Department to assist in producing videotapes, slides and transparencies. Educational experts at the University Network undertake the organization of specialized workshops and training courses for the development of the teaching staff and students in so far as the constant updating and development of educational concepts is concerned. This is to ensure the responsiveness of the teaching staff and students to successive

developments in this sphere, taking into account the realization of the objectives of the University Network and the standard and needs of the students in the light of the continuous evaluation of the outputs of the educational process.

* THE VIRTUAL ENVIRONMENT

The University Network supports all modern technologies in education, learning and communication. The concept of the virtual environment includes, among other things, making available the entire University Network activities such as study plans and courses, information and learning resources, student registration systems, the administrative and financial affairs, training courses and approach seminars in an effective way through the intranet connecting the AUST Network campuses. Furthermore, the concept includes the use of the methods of education, learning and communication such as the multimedia, interactive simulation, internet and video-conferencing. These tools have become necessary for effective communication among the members of the University Network community and between the University Network and the outside institutions to which it is related.

The special nature of the Ajman University of Science and Technology Network makes inevitable the use of those technologies and mechanisms in communication. This is because the University Network has three campuses in Abu-Dhabi, Al-Ain and Fujairah in addition to its Ajman headquarters. These campuses occupy five separate and far-flung sites. The University Network also has a branch outside the country, in Valencia, Spain. In this lies the special importance of the elements of the virtual environment in the network connection of all campuses to ensure instantaneous and effective communication between all members of the University Network community in addition to saving time, effort, and cost while achieving maximum productivity. These are fundamental matters in the comprehensive vision of the AUST Network.

To implement those mechanisms, the Network undertakes the constant updating and development of its intranet to serve both intramural and extramural activities. The University Network has also set up interactive multimedia centers and a media production center to contribute to the production and use of the desired educational materials. On top of that, the University Network has introduced an electronic system in its libraries which enables all users to reach all the information and learning sources in all of the University Network campuses. The University Network has also made available a network of distance-communication facilities, which allows all con-

cerned to hold meetings, seminars, lectures and other shared activities while every one remains physically where he or she is.

The importance of using the mechanisms of the virtual environment is not confined to the effective communication among all members of the University Network community and the saving of time, effort and cost but also extends to the realization of an important principle which the University Network is careful to observe.

This principle is the unification of the inputs of the educational process, the offer of equal opportunities for all students to access the information and learning sources, the organization of common seminars and lectures, and the formation of work teams from among members of the teaching staff and students to implement common research projects without incurring time-wasting travel. This is in addition to the possibility of evaluating the outputs of the educational process, at the level of the University Network as a whole, to ensure its harmony and competitiveness.

SECOND: THE CYBER ZONE

The Virtual Environment coalesces with the Cyber Zone where information has no physical or temporal borders. Through the Cyber Zone, the units of the Ajman University Network communicate with local and international networks, institutions and corporations, which lead to the easy, rapid and efficient flow of information, expertise and potentials in an age when the accuracy and speed of information has become absolutely necessary. In this way, the University Network realizes its vision of communication with and exploration of the experiments of science at the first opportunity, which supports the matching, eclecticism and customization method and the instantaneous utilization of everything new.

In addition, the mechanisms of the Virtual Environment and the Cyber Zone are used in transmitting training courses and continuous education programs to the graduates and affiliates of the University Network as well as to any interested member of the community. This evolves out of the University Network's care to continue to maintain excellence and break the barrier between it and the business community.

There is no doubt that this will reinforce the preparation of the comprehensive innovative environment where the professionals and experts grow and prosper.

THIRD: THE FILING APPROACH

Because it enables the ease of treating the various subjects and projects and their display in a way which is easily evaluated and followed up, the University Network adopts the filing approach which explains the various aspects of projects or topics. These files are:

1. The Strategic File: it treats the strategic aspects in their twofold form - the objective and procedural. This file involves the higher administration of the University Network headed by His Excellency the President of the Network, and it determines the strategic directions, on the basis of which administrators and academics undertake implementation in the framework of the global vision and educational philosophy of the University Network.

2. The Intellectual and Academic File: it treats the intellectual subjects and academic standards (domains) such as tutoring, research, training, expertise and practice. This file concerns itself with academic programs, the relevant information, learning resources and training courses. Also, the file involves the innovative aspect relating to those activities.

3. The Legal File: it defines and stabilizes meanings, creates the necessary balance between the other files, and organizes the relationships between all units of the University Network internally and externally between them and the outside.

4. The Organizational and Administrative File: organization and administration are among the effects and fruits of the law and they harmonize with all the files. This file treats the organizational and administrative procedures which secure implementation of the plans in question through disciplined and graded procedures in the framework of strict workplans and timetables.

5. The Financial and Investment File: with careful handling, it is possible to control expenses and reduce them to the minimum limit. This is one of the original basics of the global vision of the Ajman University Network where the highest degree of achievement is attained with the least possible cost and time. This file also works to achieve multipurpose, multifunction and multiuse of all the Network's entities and facilities.

6. The Information, Media and Promotion File: it embraces the outcomes of all files and interacts with them in a good way before setting them forth in its own language and through its own means of expression in a transparency reflecting an attractive image of the Network.

7. The Standards, Quality Assurance and Quality Control File concentrates on ensuring good application and controlling the rhythm and harmonization between all units of the University Network. Each file or procedure has its special standards through which the credibility and standardization of performance is assured. The standardized developments in all other files belong to this file. In addition, this file complements standards lacking in other files.

8. The Follow-up, Updating and Development File brings together the contents of all files and places them in the follow-up to ensure implementation. The development stage is entered directly. If this happens in the appropriate way, development becomes a form of behavior and inevitability.

FOURTH: THE QUALITY AND EVALUATION STANDARDS

These standards are for evaluation of persons, syllabi and performance. For each of these standards, there are details capable of measurement. The University Network takes care to apply quality standards in order to realize its global vision and objectives in an ideal manner as far as the educational, informational and investment dimensions are concerned.

FIFTH: THE PYRAMID MODEL FOR PROJECT IMPLEMENTATION

The University Network is concerned with the gradual application of ideas and projects in such a way as to ensure the appropriateness and quality of application. Projects implementation passes through the following stages:

1. the stage of thought: This is the first step where views and ideas are exchanged completely, freely and without restriction. All experiences and inputs from various directions are taken into account. Then ideas interact and are matched in order to arrive at those ideas which are the best and most suitable for the conditions and circumstances of the University Network and the region. Upon reaching a suitable idea, it is imperative that it is endorsed and accepted by all involved so as to avoid the dispersal of efforts, and it is equally important to apply the intellectual standards of commitment to objectives, logic and values.

2. the stage of vision: Following the stabilization of the idea and the conviction it generates, it is then crystallized in a way that is consistent with the global vision of the University Network. This process is calculated to ensure the harmony and absence of gaps or malfunction in the tissue of the University Network and the other

institutions related to it.

Here, it is essential to submit ideas to the quality standards (matching and customization, eclecticism, customization, and the ethics of conduct). It is also essential to formulate all the inputs in accordance with the filing approach practiced by the University Network to facilitate the judgment on the experiment and its comparison with another or other experiments.

3. the stage of experimentation: After the accomplishment of the vision stage, and after making the most effort to put it in the best possible applied form, it must be subjected to practical experimentation on the ground within narrow limits and then measured to assess the extent of the success of application and to identify the merits and demerits from the practical side. Here also it is important to submit experimentation to the quality standards in performance to assure that they do not become incompatible with the University Network tissue in the midst of practicing.

4. the stage of application: This is the stage of implementation on the ground after reaching the maturity stage of the idea and the integration of its various aspects in the course of the previous stages in such a way as to guarantee the excellence of application which reinforces the merits and reduces the demerits. There must be a continuous application of the various quality standards, which ensures the appropriateness of application and its harmony and integration with the whole of the University Network tissue. This also feeds the evaluation and development files with the required information.

At this stage there should be no expression of any views sceptical about the essence of the idea or its relevance or a repetition of what has already been achieved. Such behaviour would undermine the progress of work and waste time and effort with the added reduction of the desired benefit. Instead, the expression of views is to be in the framework of the team spirit and through the specified mechanisms for the aim of continuous evaluation and development.

5. good deeds: there is no doubt that the creative agony and the repetition of application during the previous stages would lend the experience maturity, expertise, stability and clarity, and this must by definition lead to strictness and high quality of practice. Moreover, the good leadership of the team responsible for application will ensure the harmony and transference to higher levels of new ideas and exciting additions.

The Mission and Objectives of AUST Network

MISSION

The Ajman University of Science and Technology Network in its three dimensions of education, information and investment, aims at providing the community with distinguished graduates capable of handling modern technologies and their application in the various walks of life and in development programs. The University Network makes available to the students, modern, carefully selected, and customized educational and learning mechanisms harmonious with the customs, values and requirements of society.

The University Network endeavours to break the barrier between academia and the professional and business community through application of the comprehensive concept of the standards of tutoring, research, training, expertise and practice in its educational, informational and investment dimensions.

OBJECTIVES

1. Assistance of students in achieving excellence at the personal, professional and leadership levels and that is through offering applied academic and professional programs.
2. Assistance of students in using information, training and skills in what is beneficial to the community and the business milieu.
3. Use of the mechanisms which motivate innovative thinking, continuous learning, and acquisition of skills.
4. Emphasis on the importance of the ethical dimension, accountability, and the application of standards in the classroom and the workplace.
5. Enrichment of the academic programs through curricular and extra-curricular activities.
6. Preparation of the elements of the innovative environment to support the educational, learning, and research process.
7. Securing the means of application of quality standards through the formation of the units and departments necessary for that purpose both internally and externally.
8. Offering high-quality academic programs capable of preparing and turning out graduates ready for employment anywhere in the world, and the emphasis on the integration of the educational and research process.
9. Pursuit of the development of the research potentials, especially in applied researches, and preparation of the appropriate and suitable environment for the fulfillment of the needs of students, teaching staff, and employees of the University Network in order to reach the highest levels of performance.



Why the AUST Network?

The Ajman University of Science and Technology Network in its three dimensions of education, information and investment is a non-conventional university seeking to realize a contemporary vision of a Futuristic University characterized and distinguished by eclecticism in its programs, orientation, and rules and regulations. This is in addition to its deep commitment and adherence to the labour market and its emphasis on the ideal investment in information technology and communication to achieve a virtual environment that allows and results in the availability of resources and the realization of a higher level of effectiveness in outputs. The philosophy adopted by the Ajman University Network views this institution as a house of expertise based on a clear vision and a detailed educational philosophy together with executive work programs which are well-defined in terms of goals, procedures and end-products. This Futuristic University has an effective role in preparing standards for syllabi, equipment, and human resources, in particular. It is an observable fact that those who have made progress and who have innovated are those living in a standardized and integrated environment shining with the light of the living identity to which they belong in all facets of life. By coming to terms with their effective identity, it is possible for them to handle relationships through and to mix together the educational and informative institution, on the one hand, and the virtual environment, on the other.

In accordance with the strategy practiced by the University Network in its operations, the innovative environment is realized in higher education institutions through the convergence of a number of method mechanisms which lead, when harmoniously interlinked, to the realization of an excellent innovative reality. The harmonious relationship between these method mechanisms increases the chances of achieving innovation, whose results should be made available to all concerned, institutions and individuals.

For a Futuristic University to realize its total view of itself as a complicated entity without boundaries and existing in all parts of society inside and outside the university campus, it has to develop clear standards specifying the role of the teaching staff member as a combination of tutor, researcher, trainer, expert and practitioner. In a Futuristic University, the multiplicity of roles performed by the teaching staff will turn it into a notable house of expertise in the extramural environment and will allow high quality performance intramurally. From here comes the importance of viewing the university as a source of high-quality educational outputs in addition to its character as a house of expertise interacting with companies and institutions in the framework of mutual relationships. In the innovative environment of a Futuristic University, communication, information and multimedia technology will have a central role to play in

realizing the intended objectives. Closely related to this subject is the concept of the university as an open system where modernized conventional systems of education overlap with the interactions of the labour market and the business community in the framework of utilization of the multimedia, networks and information technologies.

The concept of a Futuristic University has emerged from the importance attached to the recognition of the role of education and information in the life of contemporary society. Researchers have consistently neglected this important role, concentrating instead on the political, economic, cultural, and intellectual factors in formulating successive historical developments. During the last few decades, the education, media, and information sector has achieved unprecedented growth, which has made it necessary to take these into account when addressing a future vision of contemporary society. It is possible through reforming the education and information sectors to reform the rest, and that is due to the extension and effect that these sectors have in the lives of individuals and nations.



WHERE IS THE AUST NETWORK ?

THE UNITED ARAB EMIRATES

The Federal State:

The United Arab Emirates is the federation of seven Arab Emirates: Abu Dhabi, Dubai, Sharjah, Ajman, Ras Al-Khaimah, Fujairah and Umm Al Quwain. The Federal State, which was formed in December 1971, is located on the eastern coast of the Arabian Peninsula. It covers an area of about 77,700 square kilometers situated between latitudes 22° and 26.5° North and longitudes 51° and 56.5° East. Some 86.6 percent of the land is accounted for by Abu Dhabi. The country is bordered by the Arabian Gulf to the North, Saudi Arabia and Qatar to the West, Saudi Arabia and Oman to the South East, and Oman and the Gulf of Oman to the East.

The terrain of the U.A.E. is characterized by sand desert, barren mountains, and salt flats. However, a number of green valleys and oases are scattered all over the country. Furthermore, an afforestation campaign and a land reclamation drive has turned hundreds of thousands of hectares of previously barren land into green areas.

The country's total population is approximately three million people including nationals, foreign Arabs, and other expatriate residents.

The weather can be extreme during the summer months, from May to October, with interior temperatures reaching 49°C and coastal temperatures slightly lower but combined with high humidity. Pleasant weather prevails during the rest of the year with temperatures between 20°C and 35°C.

The main natural resource is the oil with reserves up to almost one tenth of the world's total.



Ajman:

The Emirate of Ajman is centrally located on the western coast of the U.A.E., a short distance from Sharjah, representing the northern flank of the (Dubai-Sharjah-Ajman) metropolitan area. Ajman was the birthplace of the University in 1988.

Abu Dhabi:



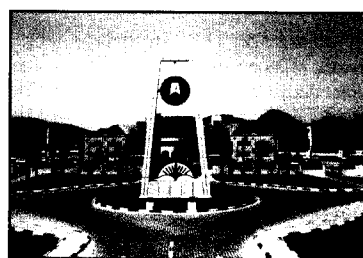
Al-Ain:

A city in the eastern part of the United Arab Emirates and on the border with Oman. Al-Ain occupies an oasis at the edge of the Al Hagar Al Gharbuia mountain range, about 160-km from the southern coast of the Arabian Gulf. Al Ain is the center of U.A.E. agricultural production, especially dates.

Ajman University's campus in Al Ain was opened in 1997.



The capital of the Federation and capital of the Emirate of Abu Dhabi, a port on the island of Abu Dhabi in the Arabian Gulf. Ajman University's campus in Abu Dhabi was opened in 1994.



Al-Fujairah:

The Emirate of Al-Fujairah is located at the eastern coast of the U.A.E., at about 120 km from Dubai. It overlooks both the Arabian Gulf and the Gulf of Oman. Ajman University's campus in Al Fujairah was opened in 1999.

Research, Information and Training Council

This council has three centres:

1. Centre of Research and Postgraduates Studies.
2. Centre of Information and Learning Resources.
3. Centre of Training and Continuing Educational.

1. Centre of Research and Postgraduates Studies

Research is one of the priorities set by the AUSTN's administration. In addition, one of the criteria to be fulfilled by any faculty member is to be research oriented.

Three main lines of research are carried out at AUST Network.

The first is institutional research, which includes studying proposals before implementation, improving an already established practice or solving a problem. Another important aspect of institutional research is to assess the learning outcomes at the university.

The second line of research deals with projects of pure academic interests where faculty members are encouraged to practice their research skills and to involve students in applied research. AUST Network also supports the active participation of faculty members in various scientific gatherings.

A third line of research is harmonized research which bridges the traditional gaps between institutional and applied research to broaden the scope of applications of results and ensure their implementation.

2. Centre of Information and Learning Resources

Overview

Information and learning resources are an integral part of the academic system. The information revolution has provided the opportuni-

ty to develop and enhance the services offered in the form of traditional and technological methods. Libraries and other learning and information resources have made unique contributions to AUST Network's mission of instruction and research.

The Libraries

Mission

The libraries support the university mission in identifying, organizing, preserving and making accessible resources which serve the needs of the university faculty members, staff and students and the community at large.

Objectives

The main goals of AUST Network libraries are given below.

1. To provide valuable means of instruction, research and indispensable opportunities to seek information.
2. To help students and academic staff members to develop their reading skills, enrich their knowledge and improve the quality of academic research.
3. To give advice and assistance to all library users.
4. To provide resources including books, periodicals, reports, theses, newspapers, pamphlets, computer software and CD-ROMs.
5. To provide quiet and peaceful places of study with materials and assistance close at hand.
6. To provide information technology tools that enrich the process of learning and teaching.

Conventional library

Each library in the different campuses of AUST Network provides its own services, but the general services provided by all AUST Network's libraries include books, periodicals, reports, theses, newspapers, pamphlets etc.

Research Services

The libraries support in-depth inquiry to gain knowledge of the subject area and provides relevant local and remote collections. Also, the libraries contacts other libraries for cooperation in the field of providing online resources and books through the inter-library loan scheme.



Library Instructions

Library staff are available to assist students, faculty or other individuals or groups using the library and its resources effectively.

Photocopying

AUST Network libraries provide photocopying services for both print and non-print materials to all library users

Digital Library

The Available resources include:

- CD-ROMs

CM ROM database is available to students and faculty members in all campuses of AUST Network.

- Electronic Books

Many books are available in electronic form through the university intranet.

- Internet Services

Free access to internet services is available to all faculty members, staff and students.

- On-line Search Services

These enable access to databases and periodicals through prescription international databanks.

The Information Technology (IT) Centre

Mission

1. To provide services to all computer users in the University Network
2. To break the geographical barriers between campuses and other educational institutions as well as professionals

Objectives

1. To design and maintain particular and relevant information systems.
2. To maintain the university network as a whole.
3. To provide service for all faculties and computer laboratories.
4. To develop specific computer software for the needs of the faculties and researchers.
5. To provide training and seminars on special computer programs and applications.
6. To provide multimedia options and technical assistance for conferences, exhibitions, and seminars organized by the University Network.
7. To evaluate software prior to purchase.

The strategy of the centre is to develop an easy, efficient and integrated communication system via the networking for the whole community. In order to break geographical barriers, the network includes the

faculties, administration and students in all the university's campuses. This network allows rapid communication and opens the university to the world of information and helps it evolve in cyber-space.

The Intranet

All University Network campuses are connected through the intranet. Learning and information resources can be accessed by all university staff and students from any of the campuses. Many of the resources can be accessed from outside the University Network. Thus, the campus is flexible, open and not bound by physical and geographical boundaries of place and time.

Video-Conferencing

The University Network campuses are connected by a network of video-conferencing tools. This valuable tool will help in immediate and efficient exchange of information, learning materials and opinion. Also, seminars and meetings can be transmitted between the campuses.

Virtual and Multimedia Centers

The idea of establishing Virtual and Multimedia Centres flows from AUST Network's vision, which stresses on the importance of enhancing the virtual environment in the university.

These centers provide skills and facilities necessary to develop multimedia applications either for the university (enhancement of teaching tools) or for external needs.

They are, therefore, not only training centers but also development centers fitted with state of the art equipment and software. The students and staff use these facilities for their project work, which involve image and sound digitalization, animation, mathematical modelling, audio-visual special effects etc.



3. Center of Training and Continuing Education

The training and continuous education center is motivated by the strategic vision of the University Network to bridge the gap between the academic realm, the community and the employment market. This is achieved through three parallel axes.

- * Student Training
- * Staff Training
- * Community Training

Student Training

In AUST Network philosophy, the students must be engaged in training at early stages of their study. This will give students the opportunity to apply what they have learned. Student training is set as an important component of the curricula. The special links between AUST Network and excellent training sites in UAE and abroad prepare the students working skills through direct contact with the business market. As a result of this training program many of AUST Network graduates have been given job opportunities in different locations.

Faculty Training

The staff training programs aims at keeping the AUST Network staff updated with state of the art methodologies in all AUST Network activities. This leads to improving performance and efficient achievement of AUST Network goals and objectives. The training programs are directed to both faculty members and staff.

The faculty members development programs include teaching and learning methodologies, computer skills and research. The administrative staff receives development programs in language, computers, management and technical skills.

Community Training

AUST is committed to taking an active role in development programs in the community. Based on field research, the community training programs are designed to fit the needs of the various sectors. Through optimal use of AUST Network scientific and human resources, a distinguished community training service is offered. The development of the training programs is continuously done through measurements of the actual and changing needs of society, trainees benefits and the training process.

The University Periodical

The objectives of AUST's periodical are two-fold: to serve as a platform for researchers from AUST and other universities, and to reflect AUST's philosophy and vision of Education in general, and Higher Education in particular.

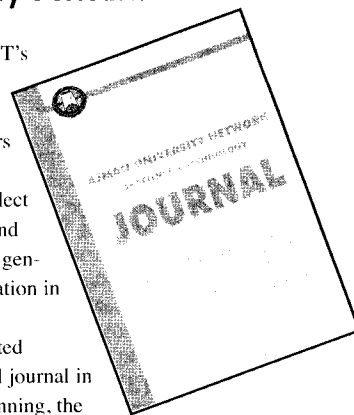
Ajman University started publishing a periodical journal in July 1995. At the beginning, the journal was published annually and continued to be so until 1997. The editorial board of the journal decided to publish the journal bi-annually starting from 1998. The journal of Ajman University includes four categories of articles:

- General scientific articles
- Translated articles
- Book reviews
- Referred papers of a highly specialized nature

All material sent for publication should satisfy a certain set of criteria before being accepted. The editorial board, with respect to the first three categories mentioned above, determines these criteria.

Articles falling under the fourth category are referred to specialist referees.

The periodical publishes subject matters belonging to all disciplines of knowledge including natural, human, engineering, medical and educational subjects.



The Language Centre

Mission

The Language Centre is primarily a servicing unit. Its mission is to provide intramural services for all the students of the University Network i.e. General English and ESP courses. The second mission, which is vital, is to provide extramural language services for the UAE community - Government and Non-government sectors. By doing this, the Language Centre breaks the barrier between the University Network and the U.A.E. community.

Objectives

The Centre addresses itself to achieving the following:-

1. designing and running courses on foreign languages and Arabic for AUST Network students in order to develop their communicative competence.

2. designing and running ESP courses to satisfy individual and professional needs. This is done in close collaboration with the faculties concerned.

3. designing and running courses for AUST Network staff, as part of their career development scheme, to enable them to carry out their duties and responsibilities in the most efficient and effective manner.

4. designing and running special courses for different sectors of the United Arab Emirates' community - public, business and others, to contribute to realizing AUST Network's philosophy as a Centre of Excellence in the language domain.

5. promoting relations with other language centres, English departments, and other specialized institutions.

To fulfill these, the Centre relies on efficient Arab and native speaker instructors. The centre also uses English interactive multimedia laboratories.

The Centre offers Six Options

1. Excellent preparation for the TOEFL.
2. Flexible and effective teaching and learning methods.
3. Efficient use of the language laboratory, which includes multimedia and virtual technologies.
4. Relevant programs which suit the levels and needs of the students.
5. Developing communication skills.
6. Tailoring language programs in cooperation with employers and target groups.

The Centre Usually Offers Courses in the Following Languages:

- * English language
- * Arabic to speakers of other Languages
- * French
- * Other languages as required

The beneficiaries from these courses are:

- * Governmental establishments
 - * Private Sector.
- Several choices are available for both groups:
- * English for Tourism
 - * English for Secretarial Work
 - * English for Banking
 - * English for Management
 - * Communication Skills for Arabic Language in Public Relations for Business People
 - * Others

Students (Courses at different levels are available)

Diplomats

- * English language for diplomats
- * Arabic language for diplomats

Women (special courses)

Expatriates:

- * Arabic language for non-Arabic speakers
- * English language for non-English speakers
- * Other languages as required



COURSE DESCRIPTIONS

0600101 ENGLISH I

This course satisfies the university language requirement. The activities of the course include providing instruction in the "common core of English language" in the four main language skill areas: listening, speaking, reading and writing. Students will be exposed to remedial help, where necessary, and to the development of skills in general English enabling them to encode and to decode messages of a non-technical nature. In each class the needs of the students will determine the amount of emphasis on each skill. Upon successful completion of the course, students should have attained an intermediate level of language proficiency.

0600102 ENGLISH II (FOR COMPUTER SCIENCE STUDENTS)

The course aims at providing the students with technical vocabulary and word-building techniques. It also focuses on reading techniques and developing each student's ability to communicate about the world of computing. It also helps students deal with technical report writing.

0600102 ENGLISH II (FOR MANAGEMENT STUDENTS)

This course aims to enable management students to upgrade and enrich their English language proficiency in order to pursue their management studies. It also enhances and develops further the four main skills: listening, speaking, reading and writing, so that they can communicate spontaneously and naturally in both spoken and written discourse. The course also aims at enabling students to acquire the specialized vocabulary and language related to management register.

0600102 ENGLISH II GENERAL (FOR STUDENTS OF FOREIGN LANGUAGES AND EDUCATION)

This course aims at developing in the stu-

dents the competencies to communicate according to the situation, purpose and roles of the participants. It develops further the four main skills: listening, speaking, reading and writing, in a natural and integrated way. In addition, it is directed towards improving and developing students' pronunciation further.

0600102 ENGLISH II (FOR DENTISTRY STUDENTS)

This course aims at developing and student's English language skills: listening, speaking, reading and writing. A lot of opportunities are given for student's to express themselves as well as to listen to professionals and ask questions, take notes, and to make use of the language need when examining and encouraging their patients etc. The other emphasis is on reading scientific texts as well as being introduced the particular linguistic features of their medical register.

0600102 ENGLISH II FOR (ENGINEERING STUDENTS)

This aims at extending further the students' communicative competence and enabling them to upgrade and enrich their English Language proficiency in order to pursue their engineering studies. It enhances and develops further the four main skills: listening, speaking, reading and writing, so that they can communicate spontaneously and naturally in both the spoken and written discourse. It is also intended to enable students to acquire the specialized vocabulary and language related to the engineering register.

0600102 ENGLISH II (FOR PHARMACY STUDENTS)

The aim of the course is to develop in the students, who are enrolled in the Faculty of Pharmacy, the abilities to handle the kind of English that is generally used in their specialist subjects and cope with the concepts that are often dealt with in their specialist area. Above all, the course aims at building students' confidence, involvement and self-

reliance their use of the target language.

0600392 FRENCH I

This course introduces students to the basics of the French language. It provides students with basic vocabulary and grammar to enable them to communicate easily in French.

0600492 French II

This course develops further the students' communicative ability in the French language. It also acquaints students with French culture and civilization.

0600493 FRENCH III

This course continues from French II where students will be encouraged to discuss a variety of subjects. They will learn how to tell a story, give a report, to form and give an opinion etc. as well as continue to learn about French culture and civilization.

Deanship of Student Affairs

The Deanship of Student Affairs assumes a supportive role to the educational process. It helps develop the student's personality through a myriad of activities that fulfill their interests and tendencies. University life goes way beyond academic learning and embraces other extra-curriculum activities that accentuate and encourage information in hobbies and also promoted the development of individual talents directing students to make-better use of their time. The organised student activities have the following objectives:

- 1- integrating the student into the community through various activities;
- 2- developing and enriching the student personality by guiding them towards high principles and morals;
- 3- assisting the student develop an autonomous personality
- 4- to tap each student's talents and innovation and encourage them to improve.
- 5- achieving scientific and educational objectives through academic activities.

Student Activities

The Deanship of Student Affairs demonstrates a deep interest in student activities through providing whatever is necessary for the promotion of these activities, be they social, cultural, academic or athletic. The deanship though to administration staff, is also keen on organizing activities which mark religious or national events. The organization of these activities extends to the participation in fairs and approach seminars. These have the effect of fostering

the student's personality.

As the number of students increases and the faculties expand steadily, activities are also on the rise to keep up with the structural expansion of the University Network. These activities are distributed over four domains.

1- Social Activities

The Deanship of Student Affairs seeks to cement social bonds among students themselves and between students, the faculty and administrative staff. It also seeks to strengthen social relations between students and the community through a variety of activities which include:

- * introduction parties
- * entertainment excursions
- * scientific excursions
- * approach seminars
- * volunteering
- * Al-Umra and Pilgrimage excursions

The deanship also watches over other social activities which are continuously being followed up:

- * assisting fresh students to acclimatize to university life
- * organizing meetings with parents and providing them with all the information they may need.
- * detecting and solving the problems that students suffer from.
- * surveying student opinion on all their educational affairs and submitting it to the competent authorities
- * assisting fresh students to register and provide counselling to them though coordination with the Deanship of

Admission and Registration

- * following up on lost property and returning it to their answers.
- * issuing certificates of good conduct
- * psychological and social counselling where appropriate.

2- Cultural Activities

Cultural activities assume an important status in the life of students. For this reason the Deanship of Student Affairs deploys strenuous efforts to promote these activities, which include:

- * delivering religious and cultural lectures as well as organizing seminars and training sessions
- * organizing fairs, feature films and plays
- * Organizing cultural contests to nurture the spirit of competitiveness among students
- * issuing news bulletins and a university newspaper
- * organizing festivals to discover student talent and innovation.

3- Sport Activities

Sport is one of the main activities practiced at the Ajman University of Science and Technology Network as it helps build physical and mental capa-



bilities. Students usually play different sports in their spare-time, benefiting from the various sport facilities which the University Network has made available for them. Apart from the swimming pool, there are sports fields and courts that make it possible for certain sports to be practiced such as: football, volleyball, basketball and handball, as well as bodybuilding and karate.

Student Associations

Students associations, with thier three branches: cultural, social and sports, constitute an essential part in the relation between the student, the university and the community at large. The Ajman University of Science and Technology Network is cognizant of this fact and is keen on organizing elections for students at the beginning of each year to select representative for the associations. These associations help bring student talents to the fore and disseminate the spirit of cooperation and teamwork amongst the student boody. The stated objectives of these associations are:

- * nurturing conviviality and cooperation among all the University Network members.

- * encouraging cultural, social and athletic activities and finding ways to develop them;

- * consolidating relations between the associations and their counterparts in other universities;

- * fostering the spirit of team work;

- * promoting voluntary work and the spirit of responsibility;

- * edifying a strong and efficient student personality.

4- Student Services

The Deanship of Students Affairs oversees and follows up the services provided by the University Network for students. These services include accommodation, transportation, health care, cafeteria, and mosques, to name but a few.

Accommodation:

Pursuant to the comprehensive vision of the Ajman University of Science and Technology Network and it educational philosophy which strives to provide students with the necessary comfort to ensure the success of the educational process, an independent institution was established to offer comfortable accommodation for students. The halls of resi-

dance contain all the necessary facilities such as: a cafeteria, a coffee shop, internet access, a mini-market, and all this with nominal prices as well as free services like: water, electricity, maintenance, cleaning, TV rooms and libraries.

Sports fields and swimming pools will also be made available in both Al-Nuaemeia and Al-Jurf campuses, in addition to a new mosque and a library. As part of accommodation policy the following services are provided:

- 1- all rooms are equipped with the finest furniture to ensure the well-being of students;

- 2- an around-the-clock supervision of students by qualified supervisors;

- 3- providing comfortable transportation means to the University campuses, markets and to other places outside their halls of residence.

Health Clinics

Medical units are available in all the campuses of the University Network and are staffed by a team of doctors and 41 nurses. These units watch over the medical care of students and offer medical examinations and treatment for many ailments. The task of these units



includes:

- * providing medical examinations for freshers;
- * for each student opening a medical file which includes personal information, a pathological record as well as registering appointments for treatment.
- * authenticating medical certificates provided by students to obtain permission to be excused from lectures;
- * raising health awareness amongst students, such as healthy food and hygiene.

Transportation

The University Network has a company that is in charge of transportation. It has several comfortably equipped a uses under the charge of well-qualified drivers and supervisors. The company makes more than 50 trips per day, to transport students from their halls of residence to the University Network campuses or to other venues where University events are organized. The company receives only nominal fees for the excellent transportation services it offers.

Smart Superstore

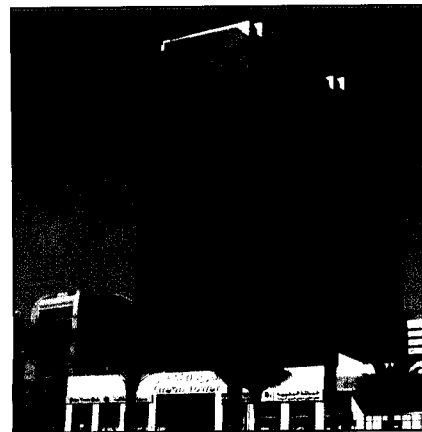
Smart Company was founded to cater for the essential stationery needs of students. It provides office equipment, books and software, as well as making copies and scanning documents for students. The store is equipped with the latest technology to make it easier and faster for students to have copies of their books. English and Arabic textbooks are bought directly from the publisher to make their prices competitive and inexpensive for students.

Technosphere Center of Excellence

The establishment of 'The Technosphere Centre of Excellence' is derived from the comprehensive vision of the Ajman University of Science & Technology Network as a house of expertise. The centre seeks to serve society in different fields such as social welfare, economy and education. The centre works as a reflection for the AUST Network academic activities in the community. It aims to break the barriers between academic establishments and the community, based on mutual interests. The centre is the authority responsible for organizing all the AUST Network's external activities within the UAE & the GCC countries. These activities are listed below.

- 1- Organize a variety of specialized training courses, which are supervised by specialized expert trainers, who use training programs and materials that cater for different cultural and knowledge parameters. It also aims to meet the market employment needs.
 - 2- Provide digital services in fields such as, production, networking, research, training & education.
 - 3- Establish effective relationships with organizations and authorities in the community.
 - 4- Provide consultation services in the fields of: technology application, knowledge and skills development.
 - 5- Offer extramural courses that seek to continuously develop the workforce in both the private and public sectors.
 - 6- Establish cooperation and research coordination with the private and public sectors in order to direct scientific research to serve the community, and make it available to those who show interest in it.
 - 7- Form research teams that include researchers from all up-to-date specializations related to research projects.
 - 8- Provide studies and methods for human resources development policies in the private and public sectors.
 - 9- Provide strategic studies, collect data in various fields and analyze and publish them.
 - 10- Publish available applications of scientific research in different specializations.
- 'The Technosphere Centre of Excellence' aims at making use of programs and scientific specializations, which are offered by the AUST Network and are attached directly to the needs of the community such as: Education, Computing, Foreign Languages & Translation, Media Information and Mass Communication, Business Administration, Environment, Water and Energy.

In accordance with the strategy of the AUST Network, the facilities of all eight faculties are put within reach of the public and private sectors.



The Wise and Elite House

MISSION

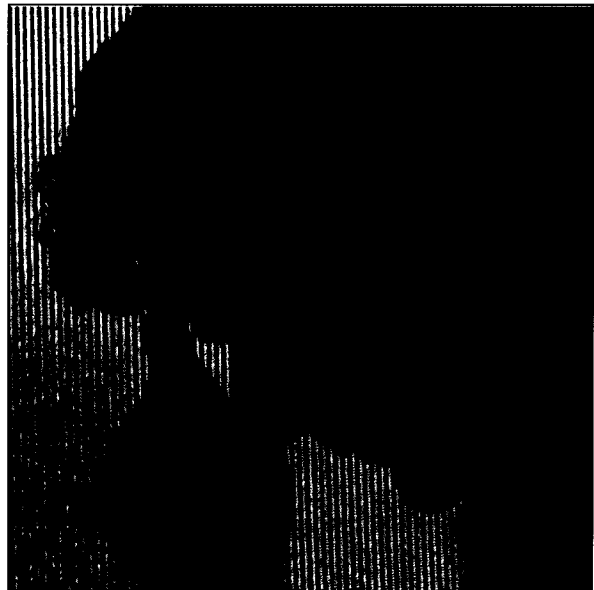
As a point of departure, 'The Wise and Elite House Project' stems from the global vision and philosophy of Ajman University of Science and Technology Network. 'The Wise and Elite House' represents a feature of a revival project and development scheme contemplated by His Excellency Dr. Saeed Abdalla Salman. His aim is to create the adequate milieu that helps utilize most of the talents and expertise from inside and outside the Arab World in order to address and solve the problems and enigma of the nation, enabling it to thrive to the horizons of progress in all economic, social, scientific and political spheres. 'The Wise and Elite House' comprises distinguished Arab cadre from inside and outside the Arab World to work together via communion, deliberations and constant methodological collaboration utilizing modern technology to consistently monitor and survey the requisites of the nation, and hence fulfill these basic needs through innovative research and training activities. AUST Network has launched the Wise and Elite House Project in cooperation with the World Intellectual Property Organization (WIPO) in Geneva on June 11th, 2002. Together with WIPO, AUST Network has organized three International Approach Seminars on the Wise and Elite House in Geneva, Ajman and Berlin.

AIMS AND OBJECTIVES

1. This project stems from the global vision of Ajman University of Science and Technology Network in its three dimensions: education, information and investment, and it strives to develop the nation's technological, scientific, economic and social fields.
2. Despite the fact that the nation has huge human and intellectual assets, it is still lagging behind in almost all domains. This is because of a human brain-drain; lack of the necessary innovative environment that translates research achievements into sensible social and economic development projects.
3. 'The Wise and Elite House' accommodates intellectual elites inside and outside the Arab World who can share the nation's dreams and ambitions in order to utilize research through national and international available potential.
4. 'The Wise and Elite House' will communicate with its members through the internet, video conferencing and other modern means and tools of the cyber-zone, which is adopted by the AUST Network.
5. 'The Wise and Elite House' promotes different specializations working together with economic business experts to identify existing

problems and solve them through the environment of innovation.

6. 'The House' intellectuals will also create a strategic bond between academia and the world of business and industry, which in turn guarantees the provision of a skilled, talented and creative labour force and which preserves the highest and best rates of productivity, qualitatively and quantitatively.
7. The elites will help in defining and organizing educational and training programs in continuing education that will make use of 'The Elite House' as a resource that continually provides it with creative integrants.
8. They will organize approach seminars with various sectors of the nation so as to expound its projects and hence secure harmony in the way of thinking.
9. The distinguished elites will set up a database for the actual problems and difficulties that face the community together with suggested solutions and the previous attempts and their results.
10. Plan and organize theoretical and applied research in terms of its order of importance and the availability of human and logistic means that facilitates its implementation.



Innovative Medical Environment

MISSION

'The Innovative Medical Environment' is a realistic and direct application of the global vision of the AUST Network in breaking the barrier between the academic entities, with its all academic and training programmes, expertise, practitioners and researchers, and the business community, including hospitals, medical centre and the various areas of practical applications.

'The Innovative Medical Environment' is the sixth basic reference authority in the AUST Network. It houses all the academic, research, training, expertise and practical activities that are relevant to health and medical fields, with the aim of joining all the facilities and potentials to present the best possible outcome for users and beneficiaries.



OBJECTIVES

1. Making available, through the University's network databases and information sources, which will enrich the process of teaching, learning and research, in addition to facilitating the exchange of information, discussion and debate through the internet.
2. Making available the infrastructure for teaching, research, training, consultations and practice in medical and health areas through a network that includes drawing on all the experiences and potential at hand.
3. Carrying out joint applied research in the fields of medicine and health by studying the actual needs of the community and meeting these needs in a comprehensive way.
4. Making available places for training the AUST Network students in different locations (hospitals, factories, pharmacies etc.) to assist students in the development of their intellectual abilities and to provide the community with distinguished elements capable of producing and innovating.
5. Making available training and continuing teaching programmes for the community.
6. Training teaching staff members and all members of the medical environment to acquire harmony between theory and practice.
7. Applying the philosophy of the multiplicity of uses, functions and goals, by employing laboratories and human research facilities in various ways, as this will save a lot of effort and expenditure, leading to the best results.
8. Organising approach seminars within the frame of a comprehensive plan that aims at introducing the idea to all and measuring the reactions. This will be followed by the required adjustment and development, during the experimental period, to attain distinction during the comprehensive application stage.

The Institute of Environment, Water and Energy

MISSION

The mission of the Institute of Environment, Water and Energy (IEWE) is to represent a centre of excellence that breaks the barrier between the Ajman University of Science and Technology (AUST) Network as a scientific, informational and investment institution and the private sector, and meet the needs of the UAE community and the Arabian Gulf region, in promoting training and research in environmental, water resources and energy fields.

OBJECTIVES

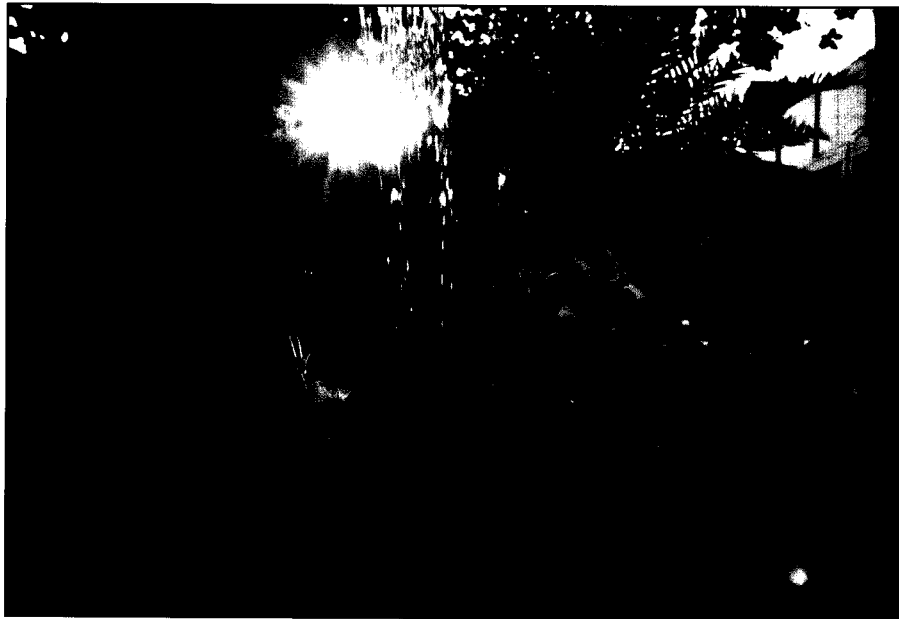
The initial objectives of the IEWE at the Ajman University of Science and Technology Network is to develop field training programs and training courses, conduct applied interdisciplinary research, organize workshops, seminars and short courses, acquire and adapt the most recent technologies and methodologies, provide consultation and participate in national and regional projects.

CURRENT ACTIVITIES

The IEWE at the AUST Network is actively working on establishing strong ties with national, regional and international institutions and organizations. During the last year the IEWE has already started two research projects with Nice Sophia Antipolis, France, participating in activation of the Euro-Arab Research Network (EARN) and submitted proposals for cooperation with the Ministry of Agriculture and Fisheries (MAF) in the UAE, United Nations Environment Program regional office for West Asia in Bahrain and the Polytechnic University of Valencia in Spain.

FIELD TRAINING PROGRAMS

- Training courses.
- Applied interdisciplinary research projects.
- Workshops.
- Seminars.
- Undergraduate and graduate academic programs.



Employment Agency

AIMS:

The Employment Agency aims to realize the University Network's vision and philosophy of collaborating with the business society by breaking the barrier between them. To achieve this, the Employment Agency aims:

1. to establish a basis for mutual understanding between the University Network and the job-market in order to produce the necessary cadres - in the different specializations to meet the market's needs.
2. to develop databases highly connected with production and job market demands.
3. to avail training opportunities for students in both the public and private-sector establishments, working in the UAE and abroad, with the view of securing jobs for its graduates. This is done in accordance with the rules and mechanisms set by the agency.
4. to establish new strong links and relationships with the public and private sector organizations in the UAE, in particular, and in the Gulf Cooperation Council (GCC) Countries in general, for the sake of realizing mutual cooperation.
5. to choose the best working places for the eligible graduates according to their CVs and required specialization.

Pre-working Graduates Training

The agency activities include running training workshops for the prospective graduates. They are divided into smaller groups and trained in the areas listed below.

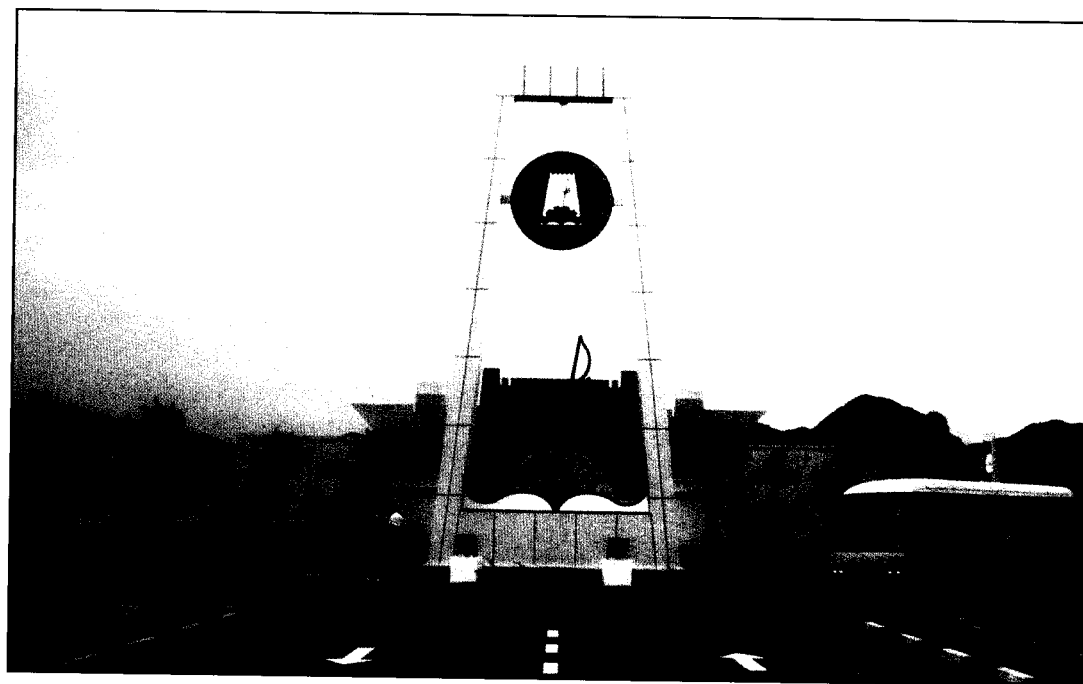
- Strategies of job searching
- The writing of CVs
- Performance in personal interviews (video shows are set for this).
- Running short training courses for graduates needing strengthening in areas such as:
 - English Language skills
 - Computer skills
 - Administration skills
 - other relevant areas.

'The Centre for Training and Continuous Education' of the University Network seeks the realization of cooperation agreements between the University Network and some companies and establishments expected to avail the graduates training opportunities under the supervision of the centre if the need arises.



ADMISSION AND REGISTRATION

Admission and registration information



ADMISSION AND REGISTRATION

1. Degree Programs offered at AUST Network	36
2. Admission Regulations	37
● General Admission Regulations	37
● Transfer from Other Universities to AUST Network	38
● Change of Major	39
3. System of Instruction	39
4. Academic Advising and Registration	41
● Academic Advising	41
● Course Registration	41
5. Examinations and Assessments	42
6. Attendance and Absence Warnings	43
7. Academic Probation	44
8. Graduation Requirements	44
9. Evening Classes	44
10. Tuition Fees and Financial Regulations	44
11. Course Coding System	46
12. Course Description of University Requirement Courses	46
13. Courses Offered by the Faculty of Education and Basic Sciences to Other Faculties	48
14. Courses Offered by the Faculty of Foreign Languages and Translation to Other Faculties	50

1. DEGREE PROGRAMS OFFERED AT AUST NETWORK

The eight faculties of AUST Network offer the following 21 accredited Bachelor programs and two accredited Diploma programs.

1. FACULTY OF BUSINESS ADMINISTRATION

- Bachelor of Science in Management (132 Credit Hours / 4 years)
- Bachelor of Science in Marketing (132 Credit Hours / 4 years)
- Bachelor of Science in Accounting (132 Credit Hours / 4 years)
- Bachelor of Science in Finance (132 Credit Hours / 4 years)
- Diploma in Business Administration (72 Credit Hours / 2 years)

2. FACULTY OF COMPUTER SCIENCE AND COMPUTER ENGINEERING

- Bachelor of Science in Computer Science (135 Credit Hours / 4 years)
- Bachelor of Science in Computer Engineering (164 Credit Hours / 5 years)
- Bachelor of Science in Information Systems (131 Credit Hours / 4 years)
- Diploma in Information Technology (70 Credit Hours / 2 years)

3. FACULTY OF DENTISTRY

- Doctor of Dental Surgery (D.D.S.) (189 Credit Hours / 5 years)

4. FACULTY OF ENGINEERING

- Bachelor of Science in Electrical Engineering/ Electronic (165 Credit Hours / 5 years)
- Bachelor of Science in Electrical Engineering/Communication (165 Credit Hours / 5 years)
- Bachelor of Science in Biomedical Engineering (165 Credit Hours / 5 years)
- Bachelor of Science in Architectural Engineering (169 Credit Hours / 5 years)
- Bachelor in Interior Design (134 Credit Hours / 4 years)

5. FACULTY OF FOREIGN LANGUAGES AND TRANSLATION

- Bachelor of Arts in English Language and Translation (132 Credit Hours / 4 years)
- Bachelor of Arts in Communication and Translation (132 Credit Hours / 4 years)

6. FACULTY OF PHARMACY AND HEALTH SCIENCES

- Bachelor of Pharmacy (150 Credit Hours / 4-5 years)

7. FACULTY OF EDUCATION AND BASIC SCIENCES

- Bachelor in Education Technology / Teacher Training Program in Arabic and Islamic Studies (132 Credit Hours / 4 years)
- Bachelor in Education Technology / Teacher Training Program in Mathematics and Science (132 Credit Hours / 4 years)
- Bachelor in Education / Teaching English Language as a Foreign Language (TEFL) (132 Credit Hours / 4 years)
- Bachelor in Educational Technology (132 Credit Hours / 4 years)

8. FACULTY OF INFORMATION, MASS COMMUNICATION AND PUBLIC RELATIONS

- Bachelor of Arts in Mass Communication and Public Relations (132 Credit Hours / 4 years)

2. ADMISSION REGULATIONS

The Council of Academic and Scientific Affairs of the University Network determines the number of students to be admitted to each degree program in each semester according to the University's available resources.

Applications for admission to one of the programs should be submitted to the Admission and Registration Deanship prior to the beginning of the first and second semester of each academic year.

● General admission regulations

To be eligible for admission, the applicant must hold a secondary school certificate issued in the U.A.E. or its equivalent approved by the Ministry of Education, UAE.

Holders of a Secondary School Certificate (SSC), Science Section, are eligible for admission to any faculty of the University Network if they satisfy the minimum score that is required for the degree program.

Holders of a Secondary School Certificate, Literary Section, with a minimum score of 60% are eligible for admission to all degree programs of the following faculties:

- Business Administration.
- Foreign Languages and Translation.
- Information, Mass Communication and Public Relations

and to the following specific programs :

- Bachelor in Education Technology/Teacher Training Program in Arabic and Islamic studies
- Bachelor in Education / Teaching English Language as a Foreign language
- Bachelor of Science in Information Systems
- Bachelor in Interior Design.
- Diploma in Information Technology

Admission decisions are made on a competitive basis, taking into consideration the number of places set by the University Network, and the applicant's scores in the secondary school final examination.

Admission on probation

Faculty councils may give admission on probation for some applicants not satisfying the admission conditions fully. In this case, applicants must register for at most five courses selected by their respective faculties and must achieve at least a 'C' grade in each course; otherwise his/her admission will be cancelled.

Applicants admitted on probation will sign an undertaking which articulates that the University Network is not responsible for their transfer to any other university or institution if their admission is cancelled at the end of the first semester of their study.

Required documents

1. An application form obtained from the Admission and Registration Deanship and filled in by the applicant.
2. A Secondary School Certificate (or its equivalent) and a grade transcript. Certified copies are equally accepted.
3. A birth certificate.
4. A photocopy of passport.
5. Health certificate issued by the University's doctor.
6. Certificate of good conduct issued by an official body.
7. Six (6) photographs (passport size) with full name written on the back of each.
8. A written commitment signed by the applicant to observe the University rules and regulations.

Holders of High School Certificates requiring equivalency to the UAE High School Certificate may be admitted for one semester subject to the signature of an undertaking which gives the right to the University Network to cancel their registration if the equivalence of their certificate is not approved by the Ministry of Education.

The application is processed by the faculties only after payment of the application and registration fees of AED 1300.

Admission validity

Admission to the University Network remains valid for one semester. If applicants fail to register during the registration period, they may postpone their registration to the next semester provided that they submit an application in which they express the intention to postpone their registration. This application must be received by the Admission & Registration Deanship before the expiry date of the registration period as specified in the academic calendar.

The English language placement test

New students are required to take the English language placement test according to the schedule set by the Language Centre of the University, before they register for courses. The result of the test is used to determine the number of English contact hours they need.

● Transfer from other universities to AUST Network

Admission of students wishing to transfer to AUST Network from another accredited institution of higher education will be considered if the applicant:

1. fulfills the admission requirements of the degree program applied for;
2. has not been subject to academic or behavior dismissal at the institution of origin.

Applicants may request, prior to their admission, the number of credit hours that will be transferred to them after payment of a non-refundable fee of AED 500. This fee will be deducted from their admission fees in case they are admitted at the University Network.

The total number of transferred credit hours should not exceed 50% of the required number of credit hours for completion of the degree program.

Transfer of courses

Students transferring to AUST Network from accredited institutions of higher education may apply for transfer courses by submitting to the Admission and Registration Deanship a certified grade transcript issued by the institution of origin, and the prospectus or course contents of the program they have studied.

Transfer of courses is considered in accordance with the following conditions listed below:

1. The course content should be similar to the corresponding course offered at AUST Network.
2. The number of credit hours of the course will not be less than that of AUST Network equivalent course.

3. The grade obtained on the course is at least C or the grade that corresponds to Merit 'Good' for the institutions that use a different grading scale.

If a student meets the conditions of transferring a given course but cannot submit its detailed contents, he/she may sit for an examination set by the faculty after payment of the fee. The final decision will be based on the result of the examination concerned.

Registered AUSTN students can take some courses in another accredited institution provided that they obtain the prior approval of the Dean of the faculty. The transfer of these courses is processed according to the criteria mentioned above.

Grades of the transferred courses are not considered in the computation of the student's cumulative grade point average (CGPA). The latter is confined only to courses taken at AUST Network.



● Change of major

1. New students

New students may apply to transfer within the University Network from one specialization to another during the period of dropping and adding courses. This application is processed through the Admission and Registration Deanship in accordance with the following conditions:

1. applicants should meet the admission requirements of the program they are transferring to.
2. availability of places in the program they are transferring to.
3. approval of the two faculties concerned.

2. Continuing students

Students may transfer from one program to another within the University Network provided that they satisfy conditions 2 and 3 given above and the following:

1. the preceding semester Grade point average (GPA) should be equivalent to the new program's requirement.
2. the application for transfer should be submitted during the period specified in the academic calendar.

A student is normally entitled to only one transfer throughout his/her course of study at the University Network.

3. SYSTEM OF INSTRUCTION

The University Network adopts the credit-hour system. This system requires that a total number of credit hours, determined by the University, has to be earned by students to complete the program. The required number of credit hours is distributed over a certain number of semesters depending on the program

DEFINITIONS

Credit hour (Cr.h.) :

This refers to one lecture hour or two hours of practical study per week lasting for sixteen weeks.

Course

This is a program of study presented in lectures or other classes with a fixed number of contact hours per week throughout the semester. Each course is given a title and an ID number and is related to other

courses within an integrated curriculum.

Pre - requisite course

This refers to the course that must be passed by the student before being allowed to register in another course. For example, English I is a pre-requisite course for English II.

Curriculum

This is a full description for the program of specialization. It consists of:

1. A syllabus of integrated courses that must be passed to fulfill the requirements of the program.
2. A practical training period which is integrated into the curriculum.

The period of training varies from one program to another. (*See Study Plan of your program*).

Semester

This is a teaching period lasting for sixteen weeks excluding the examination period.

Academic year

This is the period devoted to teaching which is determined according to the academic calendar. It consists of the first and the second semesters. It also includes the summer semester during which an intensive course of study is arranged.

Study load

This is the number of credit hours a student is registered for during the semester. For the first and the second semesters, the study load varies from nine to eighteen credit hours whereas for the summer semester, it varies from three to six credit hours.

Students may increase their study load up to twenty-one credit hours in the first and the second semester of the academic year, and to nine credit hours in summer semesters if:

1. the AGPA of the student is at least 3.5 in the preceding semester.
2. the student is expected to graduate at the end of the semester, and his/her AGPA is at least 2.0

Grade point

Numerical units are used to evaluate the student's achievement standards in terms of marks. Therefore, each course result is given in points. At AUST Network, the grade point for a course varies from 0 to 4.5 with an increment of 0.5.

University requirements courses

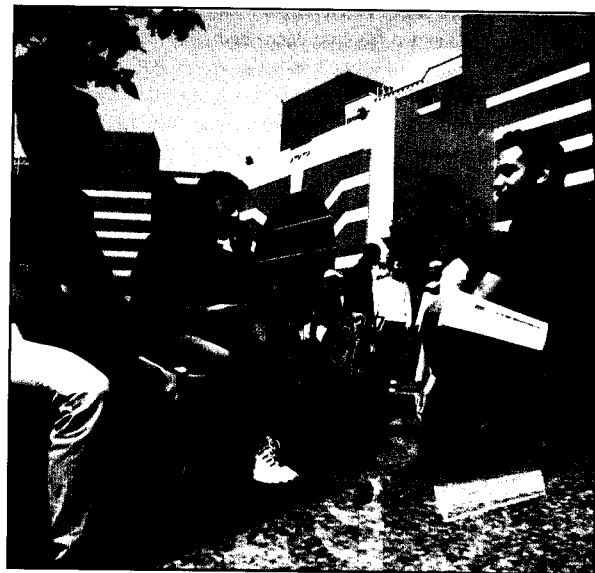
They refer to a set of eight courses which all students must pass, regardless of the program they are registered for. These courses are designed to enrich student's background in basic sciences, language skills, and to enhance their perception of the cultural and intellectual dimensions of Islamic civilization.

Each student must pass the following compulsory courses:

Course Name	Cr.hrs.
1. Statistics	3
2. Information Technology fundamentals	3
3. Islamic Culture	3
4. Arabic Language	3
5. English I	3

Each student must pass three courses, the most appropriate ones to his specialization, among the following elective courses:

Course Name	Cr.hrs.
1. Mathematics I	3
2. Scientific Pioneering and Patents	3
3. History Of Science In Islam	3
4. General Psychology	3
5. Research Methodology	3
6. Environment, Water and Energy	3
7. English II	3



4. ACADEMIC ADVISING AND REGISTRATION

● Academic advising

This is a very important element in the credit-hour system. It is not confined to acquainting the student with the syllabus and its contents only, but goes beyond that to strengthen the relationship between the student, parents and the faculty members in order to achieve the objectives of the educational process.

Each new student is assigned an academic advisor who is a member of the faculty in which the student is enrolled. Academic advisors assist students in solving the problems they face during their academic career. In particular, they follow-up the academic progress of the student until the completion of the program, and will assist the student in selecting the most appropriate courses prior to the start of each semester. Students are encouraged and sometimes required to meet their academic advisor regularly during each semester.

Each new student must register in the non-credit orientation course during the first semester.

● Course registration

a. Course registration for new students

New students are requested to attend the orientation program that is held during the first day of the semester by the Faculty in which they are admitted. The aim of the orientation is to introduce students to the University system, the credit-hour system, selection of courses of the first semester, course registration procedure, and academic advising.

Once the selected courses are entered into the registration system by the academic advisor, students will get their timetable that includes the name of the courses, the schedule of classes, the name of the lecturer, and the classroom or Laboratory number, after payment of the tuition fees.

The admission offer may be canceled by the faculty if the new student does not finalize his/her registration during the registration week.

b. Course registration for continuing students

Faculties encourage non-warned students to use the early registration period to select the courses in consultation with the academic advisor. The early registration period is specified in the academic calendar. Warned students and students who did not benefit from the early registration phase can register their courses during the registration

week as specified in the academic calendar.

c. Dropping and adding courses

Dropping and adding courses must be done with the approval of the academic advisor. During the allowed period for Dropping and Adding courses, students will not lose the fees of dropped courses.

The academic calendar also specifies the period for dropping courses without affecting the academic record but with no refund of the fees. However, students have to bear in mind that the minimum number of credit hours they should register for is nine.

The academic calendar also specifies the last date for withdrawal from a course without refund of fees. In this case, the course appears in the transcript with the letter W which does not affect the computation of the semester grade point average (GPA), nor the cumulative grade point average (AGPA).

d. Registration suspension

Suspension of study is allowed only if the student has completed his/her first semester. The total number of semesters that can be suspended is four (4). However, students are not allowed to suspend the registration for more than two consecutive semesters. The Deanship of Admission and Registration should be notified in writing.

● Student classification

Students are classified as follows:

First year : those who completed less than 33 credit hours

Second year : those who completed between 33 and 65 credit hours

Third year : those who completed between 66 and 98 credit hours

Fourth year : those who completed between 99 and 132 credit hours

Fifth year : those who completed more than 132 credit hours, and registered in the faculties of Engineering, Pharmacy and Dentistry.

5. EXAMINATIONS AND ASSESSMENTS

a: Course assessment

In each registered course, student's performance is assessed according to a procedure set-up and detailed by the faculty concerned and explained in the course plan. The overall score is normally distributed as follows:

1 - Semester Tests & Activities	30 %
2 - Mid-semester Examination	20 %
3 - Final Examination	50 %

Semester tests & activities score include marks for tests, quizzes, assignments, research, projects, and laboratory work.

Sixty (60%) is the total pass mark in each course.

b: Grading system

The University Network adopts the following grading system:

Mark	Grade		Merit
	Letter	Point	
from 95 to 100	A+	4.5	Excellent with honours
from 90 to 94	A	4	Excellent
from 85 to 89	B+	3.5	Very Good (High)
from 80 to 84	B	3	Very Good
from 75 to 79	C+	2.5	Good (High)
from 70 to 74	C	2	Good
from 65 to 69	D+	1.5	Pass (High)
from 60 to 64	D	1	Pass
less than 60	F	0	Fail

c : Semester grade point average (G P A) :

This indicates student performance during the semester, and is calculated as follows:

The total of the grade point of each course taken in the semester multiplied by its credit hours divided by the total number of credit hours registered in the semester.

Example: If a student obtains the following results:

Subject	Credit hours	Points	Multiplication of credit hours by point grade
Mathematics I	3	3	9
Statistics	3	2	6
Physics I	3	3	9
Islamic Culture	3	4	12
Arabic Language	3	4	12
English I	3	2	6
Total	18		54 points

his/her grade point average will be computed as follows :

$$\text{GPA} = \frac{9 + 6 + 9 + 12 + 12 + 6}{18} = \frac{54}{18} = 3 \text{ Points}$$

d. Cumulative grade point average (AGPA)

This indicates the student's average performance over all semesters up to the final or current semester. It is calculated as follows: the total of the grade point of each course taken to date multiplied by its credit hours divided by the total number of credit hours taken till then.

If a student repeats a course in which s/he obtained an F or does so in order to improve his/her AGPA, the last grade obtained will be considered in the calculation of the AGPA regardless of whether the last grade is higher than the original one or not. However, the original grade will remain to appear in the academic record without affecting the calculation of the AGPA.

e. Incomplete grade

Attendance in the final examination of a course is mandatory. Failing to do so means failure in that course. However, if a student does not attend the final examination due to pressing reasons and s/he scored at least a total of 30 out of 50 in the course work (tests & midsemester examination), the course may be considered as incomplete. The acceptable excuse must be one of the following:

1. illness that is certified in a medical report approved by the University's doctor,
2. the death certificate of a first or second degree relative,
3. being arrested or convened before justice or police.

Students must complete and submit the request within a maximum of three days from the examination date. They also must present the relevant documents to the Admission and Registration Deanship.

The application is processed only if the student has no financial obligation to the University, and has paid the fee of incomplete request.

The application will not be accepted if the student has 25% absence warning in the course.

A student who has been given an "incomplete" in a course must take the final examination before the end of the second week in the following semester in which s/he will register.

10% will be deducted from the student's final examination mark by the Admission and Registration Deanship unless it causes a fail.

f. Complaints about grades

Complaints regarding a final examination result may only be lodged within a period of two weeks following the announcement of the examination results. The student must submit the complaint form to the Admission and Registration Deanship which transfers it to the faculty concerned for the appropriate decision to be made. The Admission and Registration Deanship notifies the student of the decision.

g. Resit examination

Students passing all required courses for graduation except one in which they failed in the previous semester, will be allowed to re-take the final examination before the beginning of the following semester after payment of 50% of the course fees.

h. Office hour study mode

A graduating student is allowed to register for a maximum of three courses as office hours, if s/he satisfies the following conditions:

1. The student must be graduating in the same semester.
2. The student had failed in these courses.
3. These courses are not offered in the same semester.
4. Approval of the Faculty council.
5. The total number of credit hours registered by the student should not exceed his/her allowed limit.

The student must meet his/her lecturer for one hour weekly in regular semesters and three hours weekly in a summer semester. Absence warnings and assessment procedures are applicable as in regular courses.

6. ATTENDANCE & ABSENCE WARNINGS

Attending classes is compulsory in all courses. A student will not be allowed to take the final examination if s/he misses more than 25% of the classes during the semester.

If a student is absent for 10% of theoretical and practical class hours, the lecturer of the course will issue a 10% absence warning.

If a student is absent for 20% of theoretical and practical class hours, the lecturer of the course will issue a 20% absence warning.

If a student is absent for 25% of theoretical and practical class hours, the lecturer of the course will issue a 25% absence warning and will give grade F to the student.

The Academic Council of the University Network may consider a student's withdrawal from the course if sufficient and convincing reasons for the student's absence is submitted to it by the Admission and Registration Deanship

7. ACADEMIC PROBATION

If the AGPA of the student is less than (2.0) in any semester, other than the first semester or summer semesters, s/he will receive an academic warning and be placed on probation. The Admission and Registration Deanship will notify the student and his/her guardian.

A student on probation must raise his/her AGPA to at least 2.0 within three semesters, not including the summer semester, and s/he will not be allowed to register unless s/he signs the corresponding undertaking, and produces the address of his guardian.

The study load of academically warned students is reduced:

- for the first warning to a maximum of 15 Credit hours among which 3 or 6 credit hours are repeated depending on the AGPA and the last semester GPA.
- for the second warning to a maximum of 12 credit hours among which 6 or 9 credit hours are repeated depending on the AGPA and the last semester GPA.
- for the third warning to 9 repeated credit hours.
(refer to regulation of warned students for the details)

If a student having a third warning fails to raise his AGPA to 2 at the end of the semester, his/her case will be reviewed by the faculty council. The latter can take one of the following actions:

- allow the student to register for one more semester if s/he had completed at least 80% of the required credit hours for graduation provided that an AGPA of 2 can be achieved by the end of the semester.
- transfer the student to another program provided that the AGPA for the courses to be transferred is 2 or more.
- suspend the student for no more than two consecutive semesters during which s/he repeats courses at another accredited institution. S/he may be reinstated if the transfer of the courses will raise his/her AGPA to 2.
- dismiss the student from the University Network.

8. GRADUATION REQUIREMENTS

A student will be awarded a degree after fulfilling the following requirements:

- completion of all courses of the program.
- completion of the practical training as specified in the study plan.
- the AGPA is at least 2.

The merit of the degree is determined according to the following scale:

AGPA	Merit
From 4.00 to 4.5 points	Excellent with Honours
From 3.75 to less than 4 points	Excellent
From 2.75 to less than 3.75 points	Very Good
From 2.25 to less than 2.75 points	Good
From 2.00 to less than 2.25 points	Pass

9. EVENING CLASSES

The University Network schedules evening classes in most of the offered programs to students who cannot attend morning classes. Lectures start at 3:30pm.

10. TUITION FEES AND FINANCIAL REGULATIONS

1- Application and Registration fees

- Application and registration fees add up to AED 1,300 paid cash in one instalment upon submission of the admission application, and are not part of the tuition fees.
- The application and registration fees are non-refundable except when the student's application is not accepted.
- Students who wish to apply for transfer of courses from other accredited institutions pay a non-refundable fee of AED 500. This fee shall be considered part of the application and registration fees.

2- Tuition fees

2.1. Credit hours

- Tuition fees for courses and programs are determined in accordance with the credit hours system as follows:

Faculties	Fees per one credit hour
Faculty of Dentistry	AED 775
Faculty of Pharmacy and Health Sciences	AED 700
All the other faculties	AED 500

2.2. Academic advising

Students pay a fee of AED 200 for the non-credited orientation course only once during their whole period of study.

2.3. Laboratory fees

The fees that cover access to laboratories vary from one faculty to another and range from a minimum of AED 200 to a maximum of AED 600.

- The student should pay the tuition fees in full for all courses s/he takes upon registration of these courses.
- A student shall not be allowed into the classroom until s/he has paid these fees in full.
- The University Network reserves the right to change the fees mentioned above when deemed necessary.

2.4. Additional Fees

- The student pays the following additional fees:
- AED 150; once for medical check-up upon admission.
- AED 200; for student services.
- AED 50; for each application for an incomplete course.
- AED 30; for each reference letter.
- AED 20; for each extra copy of the academic record.
- AED 30; for each complaint application about grades.
- AED 10; for ID card.

3- Refund Policy

3-1 Add and Drop period:

- The add and drop period lasts for two weeks from the start of the lectures. During this period the student may add or drop courses without incurring any charges.
- If a student adds a course or more during the add and drop period, s/he must pay the fees of the added course(s) upon submitting the application for the course addition, otherwise the application shall be rejected.
- If a student withdraws from one course or more during the add and drop period, the fees of the dropped course (s) may only be refunded after the expiry of the add and drop period. The student may also opt for the transfer of the amount to his/her balance for the following semester.
- The student may withdraw one course or more after the expiry of the add and drop period, provided s/he remains registered in at least three courses in the same semester, and in this case s/he does not have the right to claim any part of the fees of the courses dropped.
- If the student wishes to be refunded for any extra amount in his/her balance, s/he must fill in and submit the Application for Refund Form to the Students Account Officer after the expiry of the add and drop period. Otherwise, the extra amount shall be added to the student balance for the following semester.

3.2 Registration suspension for one or two semesters

- The student may submit to the Admission & Registration Deanship, during the add and drop period, an application for registration suspension for one or two successive semesters at the utmost, in which case the paid fees shall be fully transferred as a credit for the following semester or refunded one week after the submission of the application for refund to the Students' Accounts Officer.

- If the student submits to the Admission & Registration Deanship within the two weeks that follow the expiry of the add and drop period an application for registration suspension for one or two semesters s/he shall be entitled to only 50% of the tuition fees paid in the semester in which s/he submits the suspension application.
- If the student submits to the Admission & Registraties Deanship after two weeks from the expiry of the add and drop period, an application for registration suspension for one or two semesters, s/he shall not have the right to claim any part of the tuition fees paid in the semester in which s/he submits the suspension application.

3-3 Withdrawal from the University Network

- The student may apply, during the add and drop period, to the Registrar's office for suspension of registration and withdrawal from the University Network. In this case, s/he is entitled to a full refund of the tuition fees paid for the semester in which s/he submits the withdrawal application. The refund shall take place one week after the submission of the application for refund to the Students' Account Officer.
 - If the student applies for registration suspension and withdrawal from the University Network within two weeks from the end of the add and drop period, s/he shall be refunded only 50% of the tuition fees paid in the semester in which s/he submits the suspension application.
 - The student shall not have the right to claim any part of the tuition fees s/he paid if s/he applies for registration suspension and withdrawal from the university two weeks after the end of the add and drop period.
- #### **3-4 Disciplinary dismissal**
- Students who are dismissed from the University Network for disciplinary reasons shall not have the right to claim any part of the tuition fees paid for the semester in which s/he is dismissed.

4- Reduction of tuition fees and scholarships

4-1 Reduction in tuition fees

- The student shall be entitled, for one semester, to a 20% reduction of the tuition fees of the courses registered in the two cases hereinafter:
- If the student passes the secondary school final examinations with a score of 90% or above.
- If the student obtains a grade point average (GPA) of 3.75 or higher, provided s/he has registered at least 15 credit hours in the semester where s/he obtains the above GPA. The student shall be entitled to this reduction as long as s/he maintains the above mentioned GPA in subsequent semesters.
- Any two brothers/sisters who enroll at the University Network in the same semester shall be granted a 5% reduction in tuition fees. If

they do not register in the same semester, none of them shall be entitled to such a reduction.

- Any student whose AGPA falls below 2.00 shall be disqualified from all types of reductions granted by the University Network.
- In the event the student meets both conditions (a) and (b) above, s/he shall not benefit from two reductions at the same time. In such a case, s/he shall be granted the highest of these two reductions.
- The University Network reserves the right to review the minimum score of high school certificate of the GPA required for granting reduction in tuition fees.

5- Scholarships and Bursaries

The University Network grants scholarships and bursaries. For more information, students may contact the scholarships committee.

6- Textbooks

- The University Network shall provide all required textbooks to students for competitive prices.
- The reductions above do not include textbook prices.

11. COURSE CODING SYSTEM

The course code normally consists of (7) digits (D7 D6 D5 D4 D3 D2 D1) starting from left to right.

Digits: D7, D6: Faculty code.

- 01: Basic Science Course.
- 02: Faculty of Engineering
- 03: Faculty of Computer Science & Computer Engineering
- 04: Faculty of Business Administration
- 05: Faculty of Education & Basic Sciences
- 06: Faculty of Foreign Languages & Translation
- 07: Faculty of Pharmacy & Health Sciences
- 08: Faculty of Dentistry
- 09: Faculty of Information, Mass Communication & Public Relations

Digits: D5, D4: Specialization (Major).

Digits: D3: Course Level

- 5: Fifth year courses
- 4: Fourth year courses
- 3: Third year courses
- 2: Second year courses
- 1: First year courses

Digits: D2, D1: Course Sequence

Note: Digit D7 is omitted from some course codes

12. DESCRIPTION OF UNIVERSITY REQUIREMENT COURSES

● Compulsory Courses

1- STATISTICS

130130

This course covers the methods used in descriptive statistics and the theory of probability distributions with an emphasis on applications to real data sets. The first part deals with graphical and the different tendency and dispersion measures for summarizing a sample. The

second part introduces the student to the computation of probabilities using probability distributions with an emphasis on the Binomial and the Normal distribution. The third part covers correlation and simple linear regression.

INFORMATION TECHNOLOGY FUNDAMENTALS

310100

The Course provides a general description of the way a computer system works and demonstrates how the computer can be used as an effective tool in every day use. The course also familiarizes students with aspects of information technology and its applications in a wide variety of fields. The course gives descriptions regarding computer hardware, software, application packages, networks, graphic design, multimedia, internet access, information retrieval, and issues concerning computer ethics and society.

3- ISLAMIC CULTURE

500110

The course keeps students in touch with their Islamic culture by taking them through the civilization established by prominent Islamic scholars and other prominent muslims. The students are expected to compare this culture with the existing ones. The course consists of a general review of Islam as a religion and an approach to life.

4- ARABIC LANGUAGE

500120

(For Arabic Speakers)

This course provides students with the necessary knowledge of Arabic. It also motivates them to appreciate the different styles of Arabic. They acquire grammatical skills and learn the rhetorical expressions of the language. The focus is on developing the student's

oral and written skills.

(For Non-Arabic Speakers)

This course is aimed at training students in the skills of listening, speaking, reading and writing. The course aims to take students up to a point where they can begin to use Arabic for everyday purposes.

5 ENGLISH I

600101

English I is a course in English as a foreign language at the intermediate level. It provides practice in the language skills of listening, speaking, reading and writing and a review of structures. There is a functional element in the course. The language laboratory is used for listening and speaking practice.

● Elective Courses

The student has to choose three (03) of the following courses, after consulting his / her academic advisor.

1 MATHEMATICS I

110110

This course provides students with basic knowledge about : plane analytic geometry, matrices and determinants, functions and graphing, calculus which includes differentiation and integration, applications on simple derivatives and integrals, linear programming.

2 SCIENTIFIC PROMOTING AND PATENTS

150150

This course is about creativity and innovations, its roots, basis, roles in the scientific development, the creative process, the creative person. Human knowledge, scientific description of phenomena. Science and the mood of the era. The rapid growth of science and creativity. Selected cases about innovation and creativity. The patents, registration of patents, intellectual property.

3 HISTORY OF SCIENCE IN ISLAM

150151

This course describes the basis of Islamic civilization, the birth of science and the scientific schools in the Islamic world, and relations with other civilizations. Study of the contribution of Islamic scientists in mechanics, optics, astronomy, medicine and pharmacology. The role of these achievements worldwide.

4 GENERAL PSYCHOLOGY

500130

This course provides students with basic principles of psychology and human behavior, including: history of this science and the most important schools in psychology. The course covers topics on the psychology of learning, the basis of intelligence and creativity. The course points out the importance of psychology and the human mind in all aspects of life.

5 GENERAL PSYCHOLOGY (FOR DENTISTRY)

500130B

This course is similar to the previous one but is geared towards psychiatry where the relationship between the dentist and the patient is very important.

6 RESEARCH METHODOLOGY

514220

The course contains topics on the meaning of science and its objectives, the concept of scientific research and its importance, the methodology of research, the philosophy of research, theoretical research, and experimental research. Research plans, research tools, data collection, data analysis or synthesis, research reports.

7 ENGLISH II

600102

This is a course in English at the intermediate level in the student's major subject. It provides practice in language skills while emphasizing the structures, vocabulary and registers appropriate to the student's field. There is also a review, continuing from English I, of structures in a general setting.

8 ENVIRONMENT WATER & ENERGY

700100

This course introduces students to the basic elements of the environment: atmosphere, hydrosphere and lithosphere, their interaction and impact of human activities. Topics such as air quality, water resources, fossil, fuel and renewable energy. Environmental pollution and environmental protection are high lighted. Special emphasis is given to the Environment, Water and Energy resources in the United Arab Emirates and the Arabian Gulf Region.

13. COURSES OFFERED BY THE FACULTY OF EDUCATION AND BASIC SCIENCES TO OTHER FACULTIES

1. STATISTICS FOR BUSINESS

102211

This course covers the statistical methods that are commonly used in business studies. The first part deals with statistical inference and testing hypotheses whereas the second part covers analysis of variance, contingency tables and Goodness of fit tests. The third part of the course deals with descriptive analysis of time series and multiple linear regression.

2. MATHEMATICS I (FOR COMPUTER ENGINEERS)

110100

Analytic geometry: planner, cartesian and polar coordinates, spatial, cartesian, spherical and cylindrical, linear algebra: matrices, determinants and inverse of a matrix, Function of one variable: limits, continuity, elementary functions, Differentiation: derivatives of elementary inverse, Parattheorem, Taylor's series.

3. MATHEMATICS I

110110

See University requirements course description

4. MATHEMATICS I (FOR MANAGEMENT)

110110

This course provides students with a basic understanding of mathematical concepts and their application to the field of business management. The topics includes: Pure analytical geometry, matrices and determinants, functions and graphing, derivatives, linear programming, and simple integration.

5. MATHEMATICS II (FOR ENGINEERING)

111122

Complex numbers - Differentiation : functions of more than one variable, limits and continuity, partial derivatives, directional derivatives, Taylor expansion, Lagrange multipliers, Simple integration techniques, and applications, multiple integrals, vector analysis : Green's theorem, Stoke's theorem, and divergence theorem.

6. MATHEMATICS III

111223

Ordinary first-order differential equations : separable equations, integrating factor, families of curves, orthogonal trajectories, Ordinary second-order linear differential equations : homogeneous equations with constant coefficients, initial value problems, real and

complex roots, differential operators, non-homogeneous linear equations-systems of differential equations, power series, solutions of differential equations, Legendre equation, Bessel equation, orthogonality of legendre and Bessel functions - Laplace transform, inverse Laplace transform, and convolution.

7. MATHEMATICS IV

112224

Sequences and series : infinite series, convergence tests, power series, Fourier series and integrals: periodic functions, Fourier series, Fourier integral and transform, Functions of a complex variable : limits, derivatives, Cauchy-Rieman equation, trigonometric and hyperbolic functions, Complex integrals, Taylor and Laurent Series : poles and zeros, singularities, Integration by residues : the residue theorem, and contour integration.

8. MATHEMATICS V

112325

Approximation and algorithms, Interpolation, numerical differentiation, numerical quadrate, and summation. The numerical solution of ordinary differential equations, Functional approximation : least-square techniques, minimum, maximum error techniques, The solution of nonlinear equations, the solution of simultaneous linear equations, The calculation of Eigen values and Eigen vectors of matrices.

9. MATHEMATICS II (FOR COMPUTER SCIENCE)

120110

Transcendental functions and their calculus, Integration techniques, Applications of the integral, Indeterminate forms and improper integrals, Parametric equations, Polar coordinates, Numerical series, Power series expansion.

10. MATHEMATICS I (INFORMATION SYSTEMS)

110109

The first of the core courses in the study plan of B.Sc. Degree in information system. It mainly deals with numbers, analysis of functions of one real variable, linear algebra (matrices & determinants) and plane geometry, derivative and antiderivative with applications.

11. MATHEMATICS II (INFORMATION SYSTEMS)

120109

The second course of the study plan of B.Sc. Degree in information system. It deals mainly with integration rules, methods of integra-

tion, complex number, analysis functions of two variables and ordinary differential equations.

12. PHYSICS FOR DENTAL STUDENTS 1201010

This course contains topics on : laws of motion, work, energy, conservation of energy, momentum, impulse, rotational motion, mechanical waves, Heat and temperature, thermal expansion, heat transfer, thermal processes, Electric charge, atomic structure, electric field and potential, electric current, electromagnetic spectrum, X-rays, radio activity, Properties of light, the principles of microscopes, lasers.

13. PHYSICS FOR MEDICAL TECHNOLOGY 1201014

This course contains topics on : Newton's laws of motion, work, energy, conservation of energy, momentum, impulse, rotational motion, centrifuge, Heat and temperature, thermal expansion, heat transfer, thermal processes, Electric charge, atomic structure, electric field and potential, electric current, electromagnetic spectrum, Properties of light, light attenuation, photometry, lasers, optical equipments, Physical methods of analysis.

14. PHYSICS I (FOR COMPUTER SCIENCE) 1201015

Vectors and Scalars, laws of motion, Newton's laws, work, energy, conservation of energy, momentum and impulse, Waves, interference of waves, Doppler's effects, Heat and temperature, heat transfer, Kinetic energy of gases, specific heat capacity, thermodynamic processes, first and second law of thermodynamics, entropy and information.

15. PHYSICS II (FOR COMPUTER SCIENCE) 1201016

Electrostatics, Coulomb's law, Atomic structure of matter, electric field, Gauss's law, the potential, the equipotential surface, Capacitance, and dielectrics, Electric Current, resistance, c.m.f, Ohm's law, Kirchhoff's rules, Magnetic field Biot-Savart law, magnetic properties of matter, the magnetic dipole, Ampere's law, induced c.m.f., Faraday's law, Maxwell's equations, the electromagnetic spectrum, the nature of light, the principles of laser, fiber optics.

16. PHYSICS I (FOR ENGINEERING) 1201021

Vectors and Scalars, Vector algebra, motion in one, two, and three dimensions, Newton's laws of motion, Work, kinetic energy, work-energy theorem, potential energy, conservation of energy, Momentum and impulse, collision, conservation of momentum, Rotational motion, Mechanical waves, Heat transfer, thermodynamic processes, first law of thermodynamics.

17. PHYSICS II (FOR ENGINEERING) 1201022

Electrostatics, Coulomb's law, Atomic structure of matter, electric field, Gauss's law, the potential, the equipotential surface, Capacitance, and dielectrics, Electric Current, resistance, c.m.f, Ohm's law, Kirchhoff's rules, Magnetic field Biot-Savart law, Ampere's law, induced c.m.f., Faraday's law, Lenz's law, eddy currents, Maxwell's equations, the electromagnetic spectrum, the nature of light.

18. CHEMISTRY 141211

This course covers topics on : Elements, compounds, chemical bonds, Kinetic Theory of Gases, ideal gases, real gases, the equation of state, Chemical equilibrium with some applications, Theories of acids and bases, oxidation and reduction reactions, photo chemistry and electrochemistry, Study of water.

19. GENERAL BIOCHEMISTRY 141212

Introduction, chemical constituents of the cell, methods of separation and purification of compounds from biological sources, enzymes, hormones, vitamins, and coenzymes, metabolism, energy in cell, genetics, biotechnology, biochemistry and medicine.

20. BIOLOGY 162201

Cell the verities of living organisms, characteristics of living organisms, cells, bacteria, fungi, soil, food and diet in man, the digestion, absorption, and metabolism of food, blood and its composition, function, and circulation, breathing, excretion, skin and temperature control, the skeleton, muscles and movement, teeth, the sensory organs, co-orientation, chromosomes and heredity, heredity genetics.

14. COURSES OFFERED BY THE FACULTY OF FOREIGN LANGUAGES AND TRANSLATION TO OTHER FACULTIES

0600103

Study Skills

This course aims at equipping students with the necessary skills needed for university education. It is tailored to guide students and make their university education as comfortable and as easy as possible.

600112

Reading Skills

The course starts with a brief description of what reading is, the characteristics of the reading process and what a good reader does. Then students are exposed to different topics in order to give them maximum time to develop reading through reading. Gradually they acquire reading speed and the different types of reading skills and strategies. As reading is a cognitive process, students are given the chance to develop critical thinking, inferencing and relate what they read to themselves and their environment.

0600114

Listening/Speaking Skills

This course will develop the ability to hold conversations, wide the range of listening strategies, gain an appreciation of appropriate functional strategies, and the ability to give a talk or a presentation.

600116

Writing Skills

This course is designed to introduce the process of writing and teach students to produce paragraphs by generating, developing, and organizing ideas. Brief writing strategies and related grammar topics will be presented to help students write more effectively. By providing them with a wide variety of stimulating topics to write on and exercises that go beyond sentence manipulation drills, students are encouraged to bring their own ideas and talents to the writing process.

0600211

Advanced Reading Skills

This course builds on the skills acquired in the first reading course so as to extend the students range of strategies and ability to deal with a variety of text types, including complete literary works. Techniques for fast reading are presented and practiced.

0600212

Advanced Writing

This course is a logical development of Writing Skills. A few model essays are to be examined. After class discussion of the situation, the

data and the language, the students should be able to produce different types of written genres.

0600223

Intro. to Linguistics

This course is an introduction to the scientific study of language. It tackles the central concerns of modern linguistics. Phonetics, Phonology, Morphology, syntax and semantics. It provides students with the basic means to analyse & describe languages at different levels.

0600221

Phonetics and Phonology

A study of "Received Pronunciation" of standard British English in the context of a general theory of speech sounds and their use, and an explanation of the nature of phonetics and phonology. The course has a strong practical bias, and the student will learn phonemic transcription. The course aims at improving students understanding of the sound system of English, and hence enhancing their speaking and listening skills.

0600231

Grammar of English I

This core course is the first of two courses, which between them will provide a comprehensive survey of English grammar and provide the descriptive and analytic background necessary for the use of standard reference grammars.

0600232

Grammar of English II

This is the second of two core courses which are meant to provide a comprehensive survey of English traditional grammar and provide the descriptive and analytical background necessary for the use of standard reference grammars.

600132

Applied Linguistics

This course is mainly an introductory study of the application of linguistics theory to the fields of language acquisition/learning and teaching, group and intercultural communication, translation & lexicography. It aims at providing students with insights into areas of linguistic concern which are currently attracting widespread interests in the fields of language, learning/teaching and education.

600435

Arabic for Translation

this course aims at providing the students with the required translation strategies to enable him/her having the appropriate command of Arabic when translating between the two languages. As the two languages are of two different families and cultures, it follows then that the course also focuses on the problematic linguistic areas of the two languages and tries to suggest solutions to these problems. Practically, it will draw the attention of the course participants, whose mother tongue is Arabic, to the appropriats translations of linguistic stretches and items in both languages.

0600475

Word Processing for Editing

The purpose of this course is to equip students with a thorough understanding of and practical ability to use some of the wide range of computerized resources and tools now available to translators. It will develop students' abilities to manage files on the computer, use word-processors and a database for their coursework, use electronic mail, search the Internet and World-Wide Web for resources, consult online databases, use computerized glossaries, corpora, and use automatic translation packages.

0610112

Western Life & Thought

This course introduces students to aspects of Western life and thought which are pertinent to language learning. It also aims to sensitize students to aspects of Western culture such as daily life routines, ways of thinking, socializing and taboo items.

0610323

Intro. to English Literature

This is an introductory course in English literature. It gives the students insight into the nature of literary discourse and critical commentary in the wider contexts of the social, literary, and cultural concerns which have shaped them, and introduces them to the three major genres of poetry, prose and drama. The course represents literature as a field of study and provides exposure to English speaking cultures as reflected in artistic expression.

0610441

Translation: Theory and Practice

The course is devoted to the study of both the theory and practice of translation. It examines in detail different principles and approaches, with practical illustrations and exercises.

0620212

Readings in Mass Communication

This course is a basic introduction to media texts in English, in the fields of communication, journalism, radio, and TV. The course is concerned with the products of western media, with its various fields and branches, especially the American and the British schools.

0600215

Intro. to Communication Translation

This course is an essential introductory course to the study of communication translation. The course seeks to teach the student the techniques and procedures of communication translation. It also deals with translation of news, the importance of translation in the Arab media and the sources of translation material (news agencies, newspapers, radio, television, the internet, etc).

0600302

Advanced Communication Translation

This course aims at reinforcing the students' skills in the field of mass communication with special emphasis on the communication terms and terminology and translation from English into Arabic.

630305

POETRY

This course attempts to increase student's understanding of poetry written in English and to help them appreciate it critically. The course includes poetic texts from Shakespeare to contemporary writers selected on the basis of their cultural relevance and linguistic sensitivity.

630309

SHORT STORIES

This course aims to provide students with knowledge about the rapid growth of the short story as an independent literary form. The course also aims to encourage students to read extensively for both pleasure and developing their communicative competence. Selection of short stories are carefully done to ensure that they are conceptually, culturally and linguistically appropriate to encourage students to read.

630314

ADVANCED LISTENING AND SPEAKING

This is an advanced course in the skills of listening and speaking. The students will be able to hold a conversation in English, listen to native speakers of English and detect the kind of conversation that is being held. The emphasis is to enable the student to become aware of their production.

630400

TRANSLATION

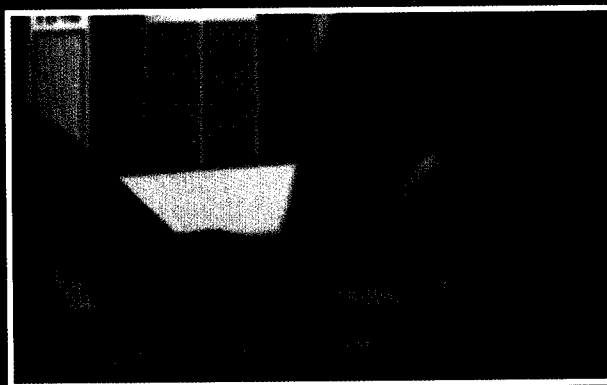
The course aims to develop the basic skills of translation. It also aims to raise students' awareness of the differences between Arabic and English texts. In addition, they will also be exposed to different varieties of the two languages.

0630401

Contrastive and Error Analysis

This course aims to sensitize students to the differences between the English and Arabic languages. The focus of the course is on sound systems, word formation, spelling, parts of speech, sentence types, punctuation of both English and Arabic. The course also aims at making students aware of the differences between English and Arabic structures, so that they can implement what they have learnt into their translations from Arabic into English and vice versa.





E-mail : business@ajman.ac.ae

CONTENTS

Faculty Mission	56
Faculty Objectives	56
Admission Requirement	56
Career Opportunities	56
Graduation Requirements	57
Bachelor of Science in Management	58
Mission, Objectives, Career Opportunities	58
Graduation Requirements	59
4 Year Study Plan	61
Bachelor of Science in Accounting	64
Mission, Objectives, Career Opportunities	64
Graduation Requirements	65
4 Year Study Plan	68
Bachelor of Science in Marketing	70
Mission, Objectives, Career Opportunities	70
Graduation Requirements	71
4 Year Study Plan	74
Bachelor of Science in Finance	76
Mission, Objectives, Career Opportunities	76
Graduation Requirements	77
4 Year Study Plan	80
Diploma in Business Administration	83
Mission, Objectives, Career Opportunities	83
Graduation Requirements	84
2 Year Study Plan	85
Course Description	86
Faculty Members	95

Faculty Mission

The Faculty adheres to the fulfillment of Ajman University's overall mission which seeks to meet the educational needs of both domestic, regional and international students.

As such the faculty philosophy is grounded on finding practical and scientific solutions to the contemporary organizational and business problems through the five major specialization areas including B.Sc Management, B.Sc Accounting, B.Sc Marketing, B.Sc Finance, and Diploma in Business Administration.

Stemming from this underlying philosophy, the faculty strategic focus is to enhance the intellectual, professional and behavioral development of the students to meet the 21st century managerial challenges.

Faculty Goals

1. To be a regional leader in management education by promoting a modern management profile, in which the gap between theory and practice is effectively bridged.
2. To enhance the intellectual, professional and behavioral development of the students to meet the 21st century managerial challenges.
3. To produce graduates with management information skills and proactive attitudes to cope with the business environment.
4. To promote a continuous relationship with society through advising, consulting, problem solving according to scientific methods, and providing training services for domestic, regional and international organizations.
5. To prepare students for pursuing higher education.

Faculty Objectives

1. To train students in management areas.
2. To train students in accounting areas.
3. To train students in marketing areas.
4. To train students in finance areas.

Admission Requirements

1. A secondary school certificate, or its equivalent with a Grade Point not less than 60%.
2. English Proficiency Test 70%.
3. Personal Interview.

For more details, please refer to the University's Admission Requirements.

Career Opportunities

With the advent of the 21st century and the increasing globalization trends, business is becoming the largest reservoir of career opportunities, locally and globally. Having this in mind, Ajman University tries to satisfy the increasing business demand for a creative, qualitative and efficient generation of graduates and professionals.

The surge in demand for managerial skills in the GCC employment market in general, and the UAE in particular, is the result of ambitious economic development plans in the gulf countries. Consequently, numerous multinational companies have established themselves in the local market with new and innovative management practices. In response to these developments, the Faculty has fostered modern management approaches that have opened up a great number of opportunities for its graduates.

To meet these regional and global challenges, The faculty of business administration aims its strategic thrust at helping career-orientated students by making available the required business specialization (Management, Accounting, Marketing, and Finance majors). Also, the Faculty strives to ensure that graduate students who may opt to further their higher education abroad will be compatible and efficient, enabling them to join world-class educational institutions and face no problem to this end.

Graduation Requirements

To obtain a Bachelor degree from the Faculty, students must complete and pass 132 credit hours, distributed as below.:

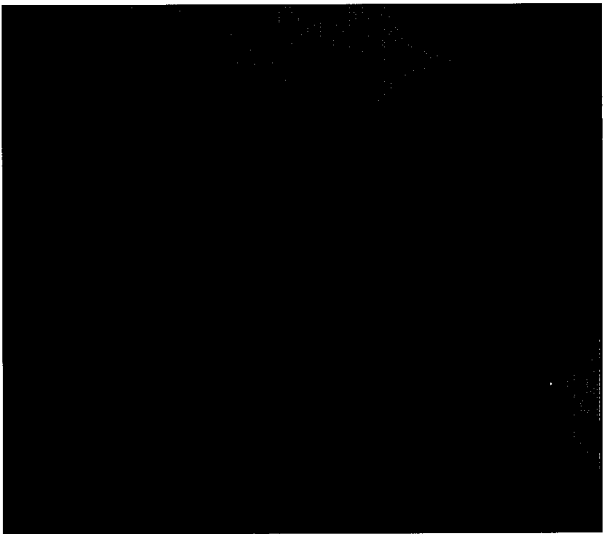
No.	Title	Cr.h.
1.	University Requirements	24
2.	Faculty Requirements/Compulsory	60
3.	Faculty Requirements/Elective	9
4.	Specialization Requirements/Compulsory	33
5.	Specialization Requirements/Elective	6
	Total	132

Students are required to undertake supervised 12 weeks training during summer vacations, starting after the fifth semester.

1) Diploma in General Management/Distribution of Courses.

To obtain a Diploma in General Management, students must complete and pass 72 credit hours, distributed as below:

No.	Title	Cr.h.
1.	University Requirements	21
2.	Management Compulsory Courses	48
3.	Specialization Requirements/Elective	3
	Total	72



BACHELOR OF SCIENCE IN MANAGEMENT

Mission

The mission of the Department of Management is to prepare students for effective participation in the community and the workforce as educated individuals able to compete in a dynamic global environment. In order to enrich the learning process and to enhance the competitive capabilities of students, the department offers a comprehensive program combining appropriate courses from all major areas of business administration. Through a careful selection of teaching materials, assignments and real life cases, the department builds marketable skills in students to facilitate their entry into the world of a business career. The department is strongly committed to advancing the welfare of students, the business community, the university, and academic and professional organizations through ongoing professional interactions.

Program Goals:

1. Enhance the intellectual, professional and behavioral development of the students to prepare them for positions in management and entrepreneurship.
2. Prepare students for doing research and postgraduate studies.

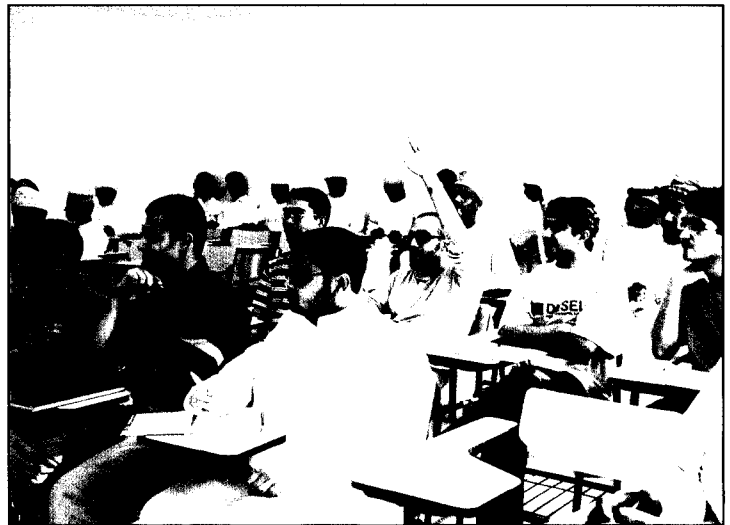
Objectives

1. To train students in human resources management.
2. To train students in organizational analysis.
3. To train students in using strategic management and TQM Models and techniques.
4. To train students in operation management.
5. To train students in initiating, running and enlarging a new business undertakings.
6. To train students in research processes.

Career Opportunities

Management is the art of getting things done by others. Hence, the need for future managers never stops, particularly for those who are equipped with the latest managerial knowledge skills, and analytical thinking.

The Bachelor of Science in Management program has been carefully drawn to meet market demands qualitatively. The program ensures offering graduates who will be efficient and effective in performing business and achieving organization objectives. Holders of a (Bsc) degree in Management from Ajman University have been well received in the UAE job market, as well as in other Gulf countries for their outstanding performance in teamwork, creativity, and management leadership skills.



Graduation Requirements

1) University Requirements (24 Cr. H.)

No	Course Title	Course No	Cr.hrs.	Prerequisites
1.	Statistics/Arts	0130130	3	-
2.	Information Technology Fundamentals	0310100	3	-
3.	Islamic Studies	0500110	3	-
4.	Arabic Language	0500120	3	-
5.	English 1	0600101	3	-
6.	Maths for Management	0110140	3	-
7.	General Psychology	0500130	3	-
8.	English 2 for Mang	0600102	3	0600101
9.	Orientation / Mang	111000	0	

2) Faculty Requirements

Compulsory Courses (60 Cr. H.)

No.	Course title	Course no	Cr.hrs.	Prerequisites
1.	Statistics for Business	0102211	3	0130130
2.	PC Applications	0311102	3	0310100
3.	Information Technology for Business	0310202	3	0311102
4.	DBMS	0306460	3	0311102
5.	Introduction to Management	0400291	3	-
6.	Principles of Accounting	0400292	3	-
7.	Microeconomics	0400393	3	-
8.	Intermediate Accounting	0400394	3	0400292
9.	Principles of Marketing	0400395	3	0400291
10.	Fundamentals of Finance	0400396	3	0400292
11.	Business Research Methods	0400307	3	0400291, 130130
12.	Business Communication	0400408	3	0400291, 0600102
13.	Organizational Behavior	0400409	3	0400291, 0500130
14.	Macroeconomics	0400410	3	0400393
15.	Business Law	0400411	3	0400291
16.	Economic Development of GCC	0400512	3	0400410
17.	Quantitative Methods	0400513	3	0102211, 0110140
18.	Managerial Accounting	0400514	3	0400394
19.	Management Information Systems	0400615	3	0400291, 0306460
20.	Supervised Training	0400616	3	60% completion of the plan

Elective Courses (9 Cr. H.)

No.	Course title	Course no.	Cr.hrs.	Prerequisites
1.	Sociology	0400317	3	-
2.	Political Science	0400318	3	-
3.	Business Ethics	0400419	3	0400291
4.	Money and Financial System	0400420	3	0400396
5.	Electronic Commerce	0400421	3	0400291, 0310202
6.	Managerial Economics	0400522	3	0400393, 0400410
7.	Public Relations	0400523	3	0400408
8.	Feasibility Studies & Project Evaluation	0400524	3	0400393, 0400396

3) Departmental Requirements

Compulsory Courses (33 Cr. H.)

No.	Course title	Course no	Cr.hrs.	Prerequisites
1.	Production & Operations Management	0410501	3	0400291, 0130130
2.	Human Resource Management	0410602	3	0400291
3.	International Business	0410603	3	0400291, 0400410
4.	Financial Planning & Control	0440603	3	0400396
5.	Purchasing & Materials Management	0410704	3	410501
6.	Computer Applications in Management	0410705	3	0311102
7.	Strategic Management	0410706	3	0400291
8.	Management of Financial Institutions	0410707	3	0400396, 0400410
9.	Organization Theory and Design	0410808	3	0400409
10.	Selected Topics in Management	0410809	3	0410706
11.	Graduation Project / mng	0410811	3	Pass 90 Cr. h.

Elective courses (6 Cr. H.)

No.	Course title	Course no	Cr.hrs.	Prerequisites
1.	Management of Small Business	0410611	3	0400291
2.	Total Quality Management	0410712	3	0410501
3.	Auditing	0420602	3	0400394
4.	Advertising and Promotion	0430603	3	0400395

4-Year Plan for the Degree Bachelor of Science in Management

First Semester:

Course No.	Course Title	L/C	Cr.hrs.	Prerequisites
600101	English I	3	3	-
500110	Islamic Studies	3	3	-
500120	Arabic Language	3	3	-
310100	Information Technology Fundamentals	2	3	-
130130	Statistics	3	3	-
110140	Mathematics for Management	3	3	-
		17	18	

Second Semester:

Course No.	Course Title	L/C	Cr.hrs.	Prerequisites
500130	General Psychology	3	3	-
600102	English II for Management	3	3	600101
102211	Statistics for Business	3	3	130130
311102	PC Applications	3	3	310100
400291	Introduction to Mgt	3	3	-
400292	Principles of Accounting	3	3	-
		18	18	



Third Semester:

Course No.	Course Title	L/C	Cr.hrs.	Prerequisites
400393	Microeconomics	3	3	-
400394	Intermediate Accounting	3	3	400292
400395	Principles of Marketing	3	3	400291
400396	Fundamentals of Finance	3	3	400292
400307	Business Research Methods	3	3	400291, 102211
	Faculty Elective	3	3	-
		18	18	

Fourth Semester:

Course No.	Course Title	L/C	Cr.hrs.	Prerequisites
400408	Business Communication	3	3	400291, 600102
400409	Organizational Behavior	3	3	400291, 500130
400410	Macroeconomics	3	3	400393
400411	Business Law	3	3	400291
306460	DBMS	3	3	311102
	Faculty Elective	3	3	-
		18	18	



Fifth Semester:

Course No.	Course Title	L/C	Cr.hrs.	Prerequisites
400512	Economic Development of GCC	3	3	400410
400513	Quantitative Methods	3	3	102211, 110140
400514	Managerial Accounting	3	3	400394
310202	Information Technology for Business	3	3	311102
410501	Production & Operations Mgt.	3	3	400291, 130130
	Faculty Elective	3	3	-
		18	18	

Sixth Semester:

Course No.	Course Title	L/C	Cr.hrs.	Prerequisites
400615	Management Information Systems	3	3	400291, 306260
410602	Human Resource Mgt.	3	3	400291
410603	International Business	3	3	400291, 400410
440603	Financial Planning & Control	3	3	400396
400616	Supervised Training	3	3	-
		15	15	

Seventh Semester

Course No.	Course Title	L/C	Cr.hrs.	Prerequisites
410704	Purchasing & Materials Mgt.	3	3	410501
410705	Computer Applications in Mgt.	3	3	311102
410706	Strategic Mgt.	3	3	400291
410707	Mgt. of Financial Institutions	3	3	400396, 400410
	Department Elective	3	3	-
		15	15	

Eighth Semester

Course No.	Course Title	L/C	Cr.hrs.	Prerequisites
410808	Organization Theory & Design	3	3	400409
410809	Selected Topics in Mgt.	3	3	410706
410811	Graduation Project	3	3	400615
	Department Elective	3	3	-
		12	12	

BACHELOR OF SCIENCE IN ACCOUNTING

Like other human activities and disciplines, accounting is largely a product of its environment. The environment of accounting consists of social - economic - political - legal conditions, restraints, and influences that vary from time to time. As a result, accounting objectives and practices are not the same today as they were in the past.

Mission

The mission of the Accounting Department is derived mainly from the grand vision and philosophy of the University and that of the Faculty. Accordingly, the department is in pursuit of excellence in accounting education and professional practice via a rigorous academic program that promotes critical thinking, interpersonal skills, technical competence and above all ethical practices.

Program Goals

- * To prepare students for a position in accounting.
- * To prepare students for postgraduate studies.

Objectives

- * To train students in financial accounting.
- * To train students in cost and management accounting.
- * To train students in government accounting.
- * To train students in auditing.
- * To train students in the research trade.

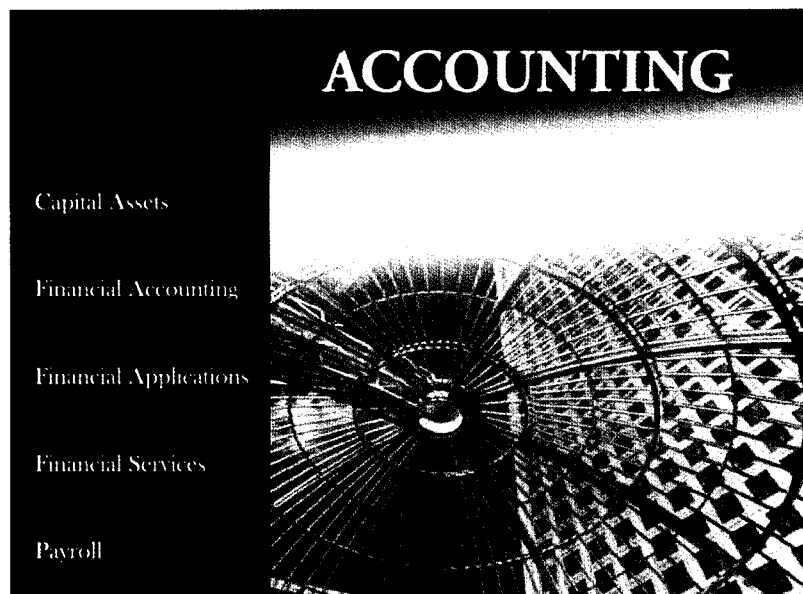
Career Opportunities

Accounting is often called the "Language of Business" because it is so widely used in describing all types of business activities. The many types and levels of accounting personnel found in the typical organization mean that there are broad opportunities awaiting those willing to master accounting discipline. In addition to preparing our accounting graduates for a position in accounting discipline, our intensive program can qualify them for the highest level of management. The accounting graduates of Ajman University are currently senior executives in many large companies, including for instance Coca Cola, Pepsi, Nike, and oil companies in the GCC countries. The department of Accounting provides the right recipe of profession at the right time in non-conventional form and in the right part of the world.

Graduation Requirements

University Requirements (24 Cr. H.)

No.	Course Title	Course No	Cr.hrs.	Prerequisites
1.	Statistics/Arts	0130130	3	-
2.	Information Technology Fundamentals	310100	3	-
3.	Islamic studies	0500110	3	-
4.	Arabic Language	0500120	3	-
5.	English 1	0600101	3	-
6.	Maths for Management	0110140	3	
7.	General Psychology	0500130	3	
8.	English 2 for Mang	0600102	3	0600101
9.	Orientation/Mang	111000	0	



2) Faculty Requirements

Compulsory Courses (60 Cr. H.)

No.	Course title	Course no.	Cr.hrs.	Prerequisites
1.	Statistics for Business	0102211	3	0130130
2.	PC Applications	0311102	3	310100
3.	Information Technology for Business	0310202	3	0311102
4.	DBMS	306460	3	0311102
5.	Introduction to Management	0400291	3	-
6.	Principles of Accounting	0400292	3	-
7.	Microeconomics	0400393	3	-
8.	Intermediate Accounting	0400394	3	0400292
9.	Principle of Marketing	0400395	3	0400291
10.	Fundamental of Finance	0400396	3	0400292
11.	Business Research Methods	0400307	3	0400291, 102211
12.	Business Communication	0400408	3	0400291, 0600102
13.	Organizational Behavior	0400409	3	0400291, 0500130
14.	Macroeconomics	0400410	3	0400393
15.	Business Law	0400411	3	0400291
16.	Economic Development of GCC	0400512	3	0400410
17.	Quantitative Methods	0400513	3	0102211, 0110140
18.	Managerial Accounting	0400514	3	0400394
19.	Management Information System	0400615	3	0400291, 306460
20.	Supervised Training	0400616	3	60% completion of the plan

Elective Courses (9 Cr. H.)

No.	Course title	Course no.	Cr.hrs.	Prerequisites
1.	Sociology	0400317	3	-
2.	Political Science	0400318	3	-
3.	Business Ethics	0400419	3	0400291
4.	Money and Financial Systems	0400420	3	0400396
5.	Electronic Commerce	0400421	3	0400291, 0310202
6.	Managerial Economics	0400522	3	0400393, 0400410
7.	Public Relations	0400523	3	0400408
8.	Feasibility Studies & Project Evaluation	0400524	3	0400393, 0400396

3)Departmental Requirements

Compulsory Courses (33 Cr.H.)

No.	Course title	Course no.	Cr.hrs.	Prerequisites
1.	Financial St. Analysis	0420501	3	0400394
2.	Auditing	0420602	3	0400394
3.	Cost Accounting	0420603	3	0400394
4.	Advanced Accounting	0420604	3	0400394
5.	Government Accounting	0420705	3	0400394
6.	Advanced Auditing	0420706	3	420602
7.	Accounting Theory	0420707	3	420604
8.	Advanced Cost Accounting	0420808	3	420603
9.	Topical Issues in Accounting	0420809	3	420604
10.	Computerized Accounting Info. Systems	0420810	3	400394, 0311102
11.	Graduation Project/Accounting	0420811	3	Pass 90 Cr.h.

Elective courses (6 Cr.H.)

No.	Course title	Course no.	Cr.hrs.	Prerequisites
1.	International Accounting	0420612	3	0400394
2.	Islamic Accounting	0420613	3	0400394
3.	Oil and Gas Accounting	0420714	3	0400394
4.	Taxation Accounting	0420716	3	0400394
	Inflation Accounting	0420715	3	0400394

4-Year Study Plan for the Degree of Bachelor of Science in Accounting

First Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0600101	English I	3	3	-
0500110	Islamic Studies	3	3	-
0500120	Arabic Language	3	3	-
310100	Information Technology Fundamentals	2	3	-
0130130	Statistics/Arts	3	3	-
0110140	Mathematics for Mang	3	3	-
		17	18	

Second Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0500130	General Psychology	3	3	-
0600102	English II for Mang	3	3	0600101
0102211	Statistics for Busniss	3	3	0130130
0311102	PC Applications	3	3	310100
0400291	Introduction to Mgt	3	3	-
0400292	Principles of Accounting	3	3	-
		18	18	

Third Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0400393	Microeconomics	3	3	-
0400394	Intermediate Accounting	3	3	0400292
0400395	Principles of Marketing	3	3	0400291
0400396	Fundamentals of Finance	3	3	0400292
0400307	Business Research Methods	3	3	0400291, 102211
	Faculty Elective	3	3	-
		18	18	

Fourth Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0400408	Business Communication	3	3	0400291, 0600102
0400409	Organizational Behavior	3	3	0400291, 0500130
0400410	Macroeconomics	3	3	0400393
0400411	Business Law	3	3	0400291
306460	DBMS	3	3	0311102
	Faculty Elective	3	3	
		18	18	

Fifth Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0400512	Economic Development of GCC	3	3	0400410
0400513	Quantitative Methods	3	3	0102211, 0110140
0400514	Managerial Accounting	3	3	0400394
0310202	Information Technology for Business	3	3	0311102
0420501	Financial Statement Analysis	3	3	0400394
	Faculty Elective	3	3	
		18	18	

Sixth Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0400615	Management Information System	3	3	0400291, 306460
0420602	Auditing	3	3	0400394
0420603	Cost Accounting	3	3	0400394
0420604	Advanced Accounting	3	3	0400394
	Department Elective	3	3	
		18	18	

Seventh Semester

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0420705	Governmental Accounting	3	3	0400394
0420706	Advanced Auditing	3	3	0420602
0420707	Accounting Theory	3	3	0420604
	Department Elective	3	3	
		12	12	

Eighth Semester

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0420808	Advanced Cost Accounting	3	3	0420603
0420809	Topical Issues in Accounting	3	3	0400604
0420810	Computerized Accounting Info. Systems	3	3	0400394, 0311102
0420811	Graduation Project/Accounting	3	3	Pass 90 Cr.h.
		12	12	

BACHELOR OF SCIENCE IN MARKETING

Mission

With the advent of WTO, marketing is becoming an increasingly important field of practice and career in today's business world. In our modern societies, marketing touches upon everybody's day-to-day life, whereas in business surpassing other firm's major activities. Hence, the BSc in Marketing program has been drawn in line with the vision and philosophy of Ajman University of Science and Technology which seeks to make higher education attuned to the demand of the real world.

Program Goals

- * To prepare students to become adept marketing professionals and train them to entry level positions in various aspects of marketing.
- * To prepare students for graduate studies.

Objectives

- * To train students to have an in-depth knowledge in the basic business practices.
- * To train students to understand the role and practice of marketing within the organization and develop an understanding of theoretical

and applied aspects of marketing.

- * To train students to understand international and industrial marketing strategies, distribution strategies, integrated marketing communications, services marketing and in the research area.
- * To train students to have an understanding of the fundamental mathematical and statistical foundations, computing and information processing needed for the business environment and efficient in spoken and written English.

Career Opportunities

In today's business world, Marketing as a profession and career has been increasingly looked upon as a forefront demanded job qualification.

AUST's Faculty of Business Administration has carefully designed the program for the BSc degree in Marketing to this end. The versatile Marketing courses offered aim at helping students to think more deeply about marketing as a vital activity, to gain skills in problem analysis, and to extend these tools and understanding in the implementation of Marketing objectives and strategies which are crucial to business success and its future growth.



Graduation Requirements

1) University Requirements (24 Cr. H.)

No.	Course title	Course no.	Cr.hrs.	Prerequisites
1.	Statistics/Arts	0130130	3	-
2.	Information Technology Fundamentals	310100	3	-
3.	Islamic Studies	0500110	3	-
4.	Arabic Language	0500120	3	-
5.	English 1	0600101	3	-
6.	Maths Management	0110140	3	-
7.	General Psychology	0500130	3	-
8.	English 2 for Mang	0600102	3	0600101
9.	Orientation/Mang	111000	0	-



2) Faculty Requirements

Compulsory Courses (60 Cr. H.)

No.	Course title	Course no.	Cr.hrs.	Prerequisites
1.	Statistics for Business	0102211	3	0130130
2.	PC Applications	0311102	3	310100
3.	Information Technology for Business	0310202	3	0311102
4.	DBMS	0311332	3	30311102
5.	Introduction to Management	0400291	3	-
6.	Principles of Accounting	0400292	3	-
7.	Microeconomics	0400393	3	-
8.	Intermediate Accounting	0400394	3	0400292
9.	Principle of Marketing	0400395	3	0400291
10.	Fundamental of Finance	0400396	3	0400292
11.	Business Research Methods	0400307	3	0400291, 0102211
12.	Business Communication	0400408	3	0400291, 0600102
13.	Organizational Behavior	0400409	3	0400291, 0500130
14.	Macroeconomics	0400410	3	0400393
15.	Business Law	0400411	3	0400291
16.	Economic Development of GCC	0400512	3	0400410
17.	Quantitative Methods	0400513	3	0102211, 0110140
18.	Managerial Accounting	0400514	3	0400294
19.	Management Information System	0400615	3	0400391, 306460
20.	Supervised Training	0400616	3	60% completion of the plan

Elective Courses (9 Cr. H.)

No.	Course title	Course no.	Cr.hrs.	Prerequisites
1.	Sociology	0400317	3	-
2.	Political Science	0400318	3	-
3.	Business Ethics	0400419	3	0400291
4.	Money and Financial system	0400420	3	0400396
5.	Electronic Commerce	0400421	3	0400291, 0310202
6.	Managerial Economics	0400522	3	0400393, 0400410
7.	Public Relations	0400523	3	0400408
8.	Feasibility Studies & Project evaluation	0400524	3	0400393, 0400396

3) Departmental Requirements

Compulsory Courses (33 Cr. H.)

No.	Course title	Course no.	Cr.hrs.	Prerequisites
1.	Marketing Research	0430501	3	0400395
2.	Consumer Behavior	0430602	3	0400395, 0500130
3.	Advertising & Promotion	0430603	3	0400395
4.	Marketing Channels	0430604	3	0400395
5.	Sales Management	0430605	3	0400395
6.	Business to Business marketing	0430706	3	0400395
7.	Services Marketing	0430707	3	0400395
8.	International Marketing	0430808	3	0400395
9.	Marketing Management.	0430809	3	0400395
10.	Computer Application in Marketing	0430810	3	0400395 or 311102
11.	Graduation Project	0430811	3	Pass 90 Cr. H.

Elective Courses(6 Cr. H.)

No.	Course title	Course no.	Cr.hrs.	Prerequisites
1.	E-Marketing	0430612	3	0400395
2.	Product and Brand Mgt.	0430613	3	0400395
3.	Retail Marketing	0430714	3	0400395
4.	Selected Topics in Marketing	0430715	3	0400395
5.	Purchasing and Materials Mgt.	0430704	3	0400395



4-Year Study Plan for the Degree of Bachelor of Science in Marketing

First Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0600101	English I	3	3	-
0500110	Islamic Studies	3	3	-
0500120	Arabic Language	3	3	-
310100	Information Technology Fundamentals	2	3	-
0130130	Statistics	3	3	-
0110140	Mathematics for Mang	3	3	-
		17	18	

Second Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0500130	General Psychology	3	3	-
0600102	English II for Mang	3	3	0600101
0102211	Statistics for Business	3	3	0130130
0311102	PC Applications	3	3	310100
0400291	Introduction to Mgt.	3	3	-
0400292	Principles of Accounting	3	3	-
		18	18	

Third Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0400393	Microeconomics	3	3	-
0400394	Intermediate Accounting	3	3	0400292
0400395	Principles of Marketing	3	3	0400291
0400396	Fundamentals of Finance	3	3	0400292
0400307	Business Research Methods	3	3	0400291, 0102211
	Faculty Elective	3	3	-
		18	18	

Fourth Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0400408	Business Communication	3	3	0400291, 0600102
0400409	Organizational Behavior	3	3	0400291, 0500130
0400410	Macroeconomics	3	3	0400393
0400411	Business Law	3	3	0400291
0311332	DBMS	3	3	0311102
	Faculty Elective	3	3	-
		18	18	

Fifth Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0400512	Economic Development of GCC	3	3	0400410
0400513	Quantitative Methods	3	3	0102211, 0110140
0400514	Managerial Accounting	3	3	0400394
0310202	Information Technology for Business	3	3	0311102
0430501	Marketing Research	3	3	0400395
	Faculty Elective	3	3	-
		18	18	

Sixth Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0400615	Management Information System	3	3	0400291, 306460
0430602	Consumer Behavior	3	3	0400395, 0500130
0430603	Advertising & Promotion	3	3	0400395
0430604	Marketing Channels	3	3	0400395
0430605	Sales Management	3	3	0400395
	Department Elective	3	3	
		18	18	

Seventh Semester

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0430706	Business-to-Business Marketing	3	3	0400395
0430707	Services Marketing	3	3	0400395
0430708	International Marketing	3	3	0400395
	Department Elective	3	3	
		12	12	

Eighth Semester

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0430809	Marketing Mgt.	3	3	0400395
0430810	Computer Application in Marketing	3	3	0400395
0430811	Graduation Project/Marketing	3	3	Pass 90 Cr. H.
	Department Elective	3	3	
		12	12	

BACHELOR OF SCIENCE IN FINANCE

Mission

Meeting the business, finance and investment needs of the Middle East and beyond through excellence in education, research, and entrepreneurial skills development.

Goals and Objectives

The finance degree program aims to prepare students for entry and middle level positions in all spheres of finance. The program accomplishes this by offering a wide range of finance subjects that emphasize and develop technical skills and critical thinking for a successful career in finance. Our program sets five clear objectives:

- * Introduce students to fundamentals of finance.
- * Provide students with the basic understanding of financial markets, institutions and instruments, and their relevance business finance.
- * Enable students to apply appropriate analytical skills in the management of financial resources such as corporate financial management, commercial banking, investment banking, financial brokerage, portfolio management etc.
- * Strengthens the student's ability to identify and solve problems, analyze financial situation and apply contemporary issues in the field of finance.
- * Address the impact of local, regional, national and international financial issues.

Career Opportunities

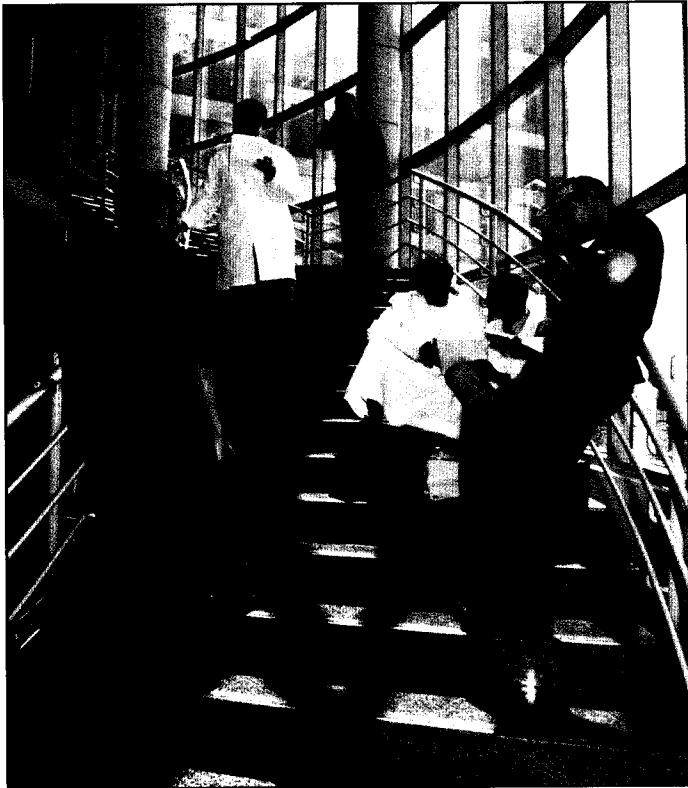
The degree in finance rightly qualifies graduates for the various corporate, financial, management positions such as Financial Analysis, Capital budgeting, Cash or Risk Management, Portfolio Management, Analysts, Bank Management positions, (eg Lending Officers, Marketing Officers), or as entrepreneurs operating their own business.



Graduation Requirements

University Requirement (24 Cr. H.)

No.	Course title	Course no.	Cr.hrs.	Prerequisites
1.	Statistics/Arts	0130130	3	-
2.	Information Technology Fundamentals	0310100	3	-
3.	Islamic Studies	0500110	3	-
4.	Arabic Language	0500120	3	-
5.	English I	0600101	3	-
6.	Maths for Management	0110140	3	-
7.	General Psychology	0500130	3	-
8.	English 2 for Mang	0600102	3	0600101
9.	Orientation/Mang	111000	0	-



Faculty Requirements

Compulsory Courses (60 Cr. H.)

No.	Course title	Course no.	Cr.hrs.	Prerequisites
1.	Statistics for Business	0102211	3	0130130
2.	PC Applications	0311102	3	310100
3.	Information Technology for Business	0310202	3	0311102
4.	DBMS	306460	3	0311102
5.	Introduction to Mgt.	0400291	3	-
6.	Principles of Accounting	0400292	3	-
7.	Microeconomics	0400393	3	-
8.	Intermediate Accounting	0400394	3	0400292
9.	Principle of Marketing	0400395	3	0400291
10.	Fundamental of Finance	0400396	3	0400292
11.	Business Research Methods	0400307	3	0400291, 130130
12.	Business Communication	0400408	3	0400291, 0600102
13.	Organizational Behavior	0400409	3	0400291, 0500130
14.	Macroeconomics	0400410	3	0400393
15.	Business Law	0400411	3	0400291
16.	Economic Development of the GCC	0400512	3	0400410
17.	Quantitative Methods	0400513	3	0102211, 0110140
18.	Managerial Accounting	0400514	3	0400394
19.	Management Information System	0400615	3	0400291, 306460
20.	Supervised Training	0400616	3	60% completion of the plan

Elective Courses (9 Cr. H.)

No.	Course title	Course no.	Cr.hrs.	Prerequisites
1.	Sociology	0400317	3	-
2.	Political Science	0400318	3	-
3.	Business Ethics	0400419	3	0400291
4.	Money and Financial System	0400420	3	0400396
5.	Electronic Commerce	0400421	3	0400291, 0310202
6.	Managerial Economics	0400522	3	0400393, 0400410
7.	Public Relations	0400523	3	0400408
8.	Feasibility Studies & Project Evaluation	0400524	3	0400393, 0400396

3) Departmental Requirements

Compulsory Courses (33 Cr. H.)

No.	Course title	Course no.	Cr.hrs.	Prerequisites
1.	Corporate Finance	0440501	3	0400396
2.	Introduction to Insurance	0440602	3	0440501
3.	Financial Planning and Control	0440603	3	400396
4.	Commercial Banking	0440604	3	0400396
5.	Financial Markets	0440705	3	0400396, 0440604
6.	Financial Risk Management	0440706	3	0400501, 0440705
7.	International Finance	0440707	3	0440501
8.	Selected Topics in Finance	0440808	3	0440501
9.	Investments	0440809	3	0440706
10.	Computer Application in Finance	0440810	3	0306460, 0440501
11.	Graduation Project/Finance	0440811	3	Pass 90 Cr. H.

Elective Courses (6 Cr. H.)

No.	Course title	Course no.	Cr.hrs.	Prerequisites
1.	Personal Finance	0440612	3	0400396
2.	Service Marketing	0430707	3	0400395
3.	Public Finance	0440714	3	0400396, 0400410
4.	Islamic Banking	0440715	3	0440604
5.	Financial Statement Analysis	0420501	3	0400394
6.	Portfolio Management and Theory	0440816	3	0440705

4-Year Study Plan for the Degree of Bachelor of Science In Finance

First Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0600101	English I .	3	3	-
0500110	Islamic Studies	3	3	-
0500120	Arabic Language	3	3	-
310100	Information Technology Fundamentals	3	3	-
0130130	Statistics	3	3	-
0110140	Mathematics for Mang	3	3	-
		17	18	

Second Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0500130	General Psychology	3	3	-
0600102	English II for Mang	3	3	0600101
0102211	Statistics for Business	3	3	0130130
0311102	PC Applications	3	3	310100
0400291	Introduction to Management	3	3	-
0400292	Principles of Accounting	3	3	-
		18	18	

Third Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0400393	Microeconomics	3	3	-
0400394	Intermediate Accounting	3	3	0400292
0400395	Principles of Marketing	3	3	0400291
0400396	Fundamentals of Finance	3	3	0400292
0400307	Business Research Methods	3	3	0400291,0102211
	Faculty Elective	3	3	
		18	18	

Fourth Semester:

Course no..	Course title	L/C	Cr.hrs.	Prerequisites
0400408	Business Communication	3	3	0400291, 0600102
0400409	Organizational Behavior	3	3	0400291, 0500130
0400410	Macroeconomics	3	3	0400393
0400411	Business Law	3	3	0400291
0311332	DBMS	3	3	0311102
	Faculty Elective	3	3	
		18	18	

Fifth Semester:

Course No..	Course Title	L/C	Cr.hrs.	Prerequisites
0400512	Economic Development of GCC	3	3	0400410
0400513	Quantitative Methods	3	3	0102211, 0110140
0400514	Managerial Accounting	3	3	0400394
0310202	Information Technology for Business	3	3	0311102
0440501	Corporate Finance	3	3	0400396
	Faculty Elective	3	3	
		18	18	

Sixth Semester:

Course No..	Course Title	L/C	Cr.hrs.	Prerequisites
0400615	Management Information System	3	3	0400291, 0311332
0440602	Introduction to Insurance	3	3	0440501
0440603	Financial Planning and Control	3	3	0440501
0440604	Commercial Banking	3	3	0440396
	Department Elective	3	3	
		15	15	

Seventh Semester

Course No..	Course Title	L/C	Cr.hrs.	Prerequisites
0440705	Financial Market	3	3	0400396, 0440604
0440706	Financial Risk Mgt.	3	3	0440501, 0440705
0440707	International Finance	3	3	0440501
0440808	Selected Topics in Finance	3	3	0440501
	Department Elective	3	3	
		15	15	

Eighth Semester

Course No..	Course Title	L/C	Cr.hrs.	Prerequisites
0440809	Investments	3	3	0440706
0440810	Computer Application in Finance	3	3	0306460, 0440501
0440811	Graduation Project/Finance	3	3	Pass 90 Cr. H.
	Department Elective	3	3	
		12	12	



DIPLOMA IN BUSINESS ADMINISTRATION

Mission

Being considered as an important link in organizational hierarchy, the Diploma in Business Administration is now seen as a gateway to career employment in various management and professional skills. AUST graduates have already taken over a wide variety of occupations in business and organizations. Their understanding of other related management issues make them particularly well suited to today's rapidly evolving markets.

The Diploma program, being of a practical nature and "Job oriented", has been specially designed to provide an opportunity to those students who wish to seek employment in the market with this required level of the special education.

Goals

- * To prepare students for an entry level management position as a para-professional.
- * To confer practical training in the business administration functions.

Objectives

- * To train students in the fundamental knowledge of management, accounting, marketing and finance.

- * To train the students in basic skills in business environment and office management.

Career Opportunities

Diploma graduates in Business administration will find their future career secured in today's business world as they rightfully fill these jobs, demanded by all businesses and organizations, as a middle chain in the management's hierarchy.

The Faculty of Business Administration of Ajman University has carefully designed this Diploma program to ensure a student completing the program successfully will be in high demand and welcomed when joining the Banking, Marketing, Finance and Accounting sectors of the market.

Also, the faculty encourages those diploma graduates, who wish to pursue their higher education, by having their diploma courses counted toward the BBA degree program.



GRADUATION REQUIREMENTS

1) University Requirements (21 Cr. Hrs.)

No..	Course Title	Course No.	Prerequisites
1.	Statistics/Artws	0130130	-
2.	Information Technology Fundamentals	310100	-
3.	Islamic Studies	0500110	-
4.	Arabic Language	0500120	-
5.	English 1	0600101	-
6.	Maths for Management	110140	-
7.	English 2 for Management	0600102	600101
8.	Orientation / Management	111000	-

2) Major Compulsory (48 Cr. Hrs.)

No..	Course Title	Course No.	Prerequisites
1.	PC Application	0311102	310100
2.	Intro. To Management	0400291	-
3.	Principles of Accounting	0400292	-
4.	Microeconomics	0400393	-
5.	Macroeconomics	0400410	0400393
6.	Intermediate Accounting	0400394	0400292
7.	Fundamentals of Finance	0400396	0400292
8.	Business Law	0400411	0400291
9.	Principles of Marketing	0400395	0400291
10.	Business Communication	0400408	0400291, 0600102
11.	Management of Small Business	0410611	0400291
12.	Money and Financial Systems	0400420	0400396
13.	Advertising & Promotion	0430603	0400395
14.	Human Resources Management	0410602	0400291
15.	Purchasing and Materials Mgt.	0410704	0400395
16.	Supervised Training	0450306	60% completion of the plan

3) Major Elective (3 Cr. Hrs.)

No..	Course Title	Course No.	Prerequisites
1.	Service Marketing	0430707	0400395
2.	Service Management	0450201	0400395

2-Year Study Plan for Diploma In Business Administration

First Semester:

Course No..	Course Title	L/C	Cr.hrs.	Prerequisites
0600101	English I	3	3	-
0500110	Islamic Studies	3	3	-
0500120	Arabic Language	3	3	-
310100	Information Technology Fundamentals	3	3	-
0110140	Mathematics for Management	3	3	-
0130130	Statistics I	3	3	-
		18	18	

Second Semester:

Course No..	Course Title	L/C	Cr.hrs.	Prerequisites
0600102	English II for Management	3	3	0600101
0400395	Principals of Marketing	3	3	0400291
0400291	Principals of Management	3	3	-
0311102	PC Application	3	3	310100
0400392	Principals Of Accounting	3	3	-
0400393	Microeconomics	3	3	-
		18	18	

Third Semester:

Course No..	Course Title	L/C	Cr.hrs.	Prerequisites
0450201	Service Management.	3	3	0400395
0400410	Macroeconomics	3	3	0400393
0400394	Intermediate Accounting	3	3	0400292
0400396	Principals of Finance	3	3	0400292
0410602	Human Resources Management	3	3	0400291
0410704	Purchasing & Material Management	3	3	0400395
		18	18	

Fourth Semester:

Course No..	Course Title	L/C	Cr.hrs.	Prerequisites
0400420	Money & Financial Systems	3	3	0400306
0430603	Advertising & Promotion	3	3	0410395
0410611	Management of Small Business	3	3	0400292
0400408	Business Communication	3	3	0600102,0400291
0400411	Business Law	3	3	0400291
0450303	Supervised Training	3	3	Pass 60%
		18	18	

COURSE DESCRIPTION

0310202

INFORMATION TECHNOLOGY IN BUSINESS

This course is designed for students who are prepared to pursue information technology studies and also for business students as part of their syllabi to be familiar with information technology features and its use in business. It gives the student explanations on a wide range of information technology topics in order to prepare him/her to use information technology tools efficiently and effectively in their future studies and careers.

0306460

DATABASE MANAGEMENT SYSTEMS

This course covers the elementary concepts of database management systems and its use from both practical and analytical points of view. The course introduces the DDL and DML notions of a relational database. The student must be able to create relations, normalize these relations and formulate queries of database. ACCESS.

0400291

INTRODUCTION TO MANAGEMENT

This introductory course provides an overview of the field of management. The topics covered in the course are designed around the key functions of management: planning, organizing, leading, and controlling. Students are exposed to the development of management theories and approaches, managerial decision-making, business environment, business ethics, and social responsibility.

0400292

PRINCIPLES OF ACCOUNTING

The term accounting may refer to different activities such as, collecting, recording, processing and communicating of economic data to produce useful accounting information. This course is a fundamental study of the principles and procedures of accounting as applied to sole proprietorships, partnership and corporations.

0400393

MICROECONOMICS

This course is designed to introduce basic economic concepts related to individual decision makers in the economy -households, business firms, also governments and how they interact. Meaning, nature, and methods of economic study are introduced. Supply, demand, and elasticity are used to analyze consumer and firm behaviors in different types of markets. Rationale for various public policies designed to modify the workings of markets will be examined.

0400394

INTERMEDIATE ACCOUNTING

To provide managers and other interested parties with useful information, they must know how this information can be generated. We believe it is important for business administration students to understand how accounting reports are prepared as well as 'why' at this stage. The course places particular emphasis on valuation procedures and alternative accounting treatments of various assets and abilities.

0400395

PRINCIPLES OF MARKETING

The course is an introductory one. It sheds light on the basic concepts of marketing, its varied definitions, origins and evolution through time. It shall also cover the main components of the marketing programme (product, price, place, and promotion) on which any attempts to plan the marketing efforts rests.

0400396

FUNDAMENTALS OF FINANCE

This is an introductory course in Finance. The course discusses in detail basic terms commonly used in Finance. Some of the topics cover financial analysis and planning, Working Capital Management, The Capital Budgeting Process, and Long Term Financing.

0400307

BUSINESS RESEARCH METHODS

This course provides an introduction to research methods in social sciences in general and business administration in particular. The primary aim of the course is to equip the students with essential research techniques they would use in advanced specialized courses such as Marketing Research, Feasibility Studies, Project Planning, and in their Graduation Project.

0400408

BUSINESS COMMUNICATIONS

The course aims to equip the students with effective business communication skills. The course provides a thorough practice in business letters, memos, reports, resume's and job applications. In addition to developing written communication, the course teaches verbal communication skills such as speeches, interviews, and other forms of communication. The entire teaching process is focused on building effective communication skills among students.

0400409

ORGANIZATIONAL BEHAVIOR

This course surveys the background and development of organizational behavior, and examines major conceptual models in the field. A number of topics are explored in detail, including personality, perception, motivation, groups and teams, communication, leadership, conflict and negotiation, also organizational sources of stress and coping strategies. Issues relating to organizational change and development are given special attention in the course.

0400410

MACROECONOMICS

This course is designed to introduce basic economic concepts related to aggregate economic relationships such as output and income, national income accounting, aggregate supply and aggregate demand, unemployment, inflation, economic growth and development, money and banking, and also international economy. This course emphasizes the main components of aggregate expenditure and determination of equilibrium level of income, in addition to the analysis of the effects of fiscal and monetary policies on the economy.

0400411

BUSINESS LAW

The aim of this course is to review basic legal principles and sources of contract law, background of law and legal theory. The following topics are covered in detail: formation of contracts, modifications, terminations, remedies, award law, pricing, patent, business organizations, company law, sales of goods, transfer of ownership rights, employment, health and safety laws.

0400512

ECONOMIC DEVELOPMENT OF THE GCC

This course is designed to introduce, first, the concepts, measurements, and theories of broad-based sustainable development as well as the relationships between economic development, human development, and the environment. Students will also be familiar with several theories of development. Then, the characteristics and the quality of life in the GCC will be investigated and compared to those in other countries. The focus will be on the causes, problems and challenges associated with the development of the GCC countries.

0400513

QUANTITATIVE METHODS

The aim of this course is to review basic quantitative methods used in business decision-making. The major focus of the course will be

on decision-making under uncertainty such as linear programming. Some of the specific topics to be covered will include: problem formulation, graphic solutions and different forms of linear programming such as transportation and assignment models, queuing theory, inventory systems and forecasting.

0400514

MANAGERIAL ACCOUNTING

Decision-making which is "The choice of alternative courses of action" is the core of the management-process that depends ultimately on a useful accounting information. This type of information will be provided through management accounting, which refers to accounting information developed for managers within an organization.

0400615

MANAGEMENT INFORMATION SYSTEMS

This course provides an overview of computers and information processing. It covers the following topics in detail: Management Information Systems concepts, information processing applications, data handling process, data processing and automation, fundamentals of any system and system design, development and implementation.

0400317

SOCIOLOGY

The aim of this course is to introduce students to the basic sociological theories of human behavior, socialization and personality. The course provides an overview of the historical development of sociology, sociological thinking and methodology, and the relationship between sociology and other social sciences. Special attention is given to the following topics: culture, society, family, social groups and organizations, deviant behavior, demography/population, urbanization, social movements, and social change.

0400318

POLITICAL SCIENCE

This course is developed to introduce students to a general and comparative introduction to major concepts and themes of international political science. It also introduces students to contemporary issues in global affairs and provides them with the opportunity to explore international relations in a variety of ways. This course aims to teach students to think about politics in systematic and comparative terms and to foster some knowledge and understanding of political issues, behavior, and institutions

0400419

BUSINESS ETHICS

The aim of this course is to provide comprehensive and systematic coverage of a wide range of ethical issues in all functional areas of business. Using cases, vignettes and discussion points, the course will examine the ethical problems involved in real-life business situations. Some of the major topics to be covered include: ethical theory and business practice, corporate social responsibility, rights and obligations of employees and employers, ethical issues in international business, social and economic justice.

0400420

MONEY AND FINANCIAL SYSTEM

This course is designed to introduce basic financial and economic concepts related to the role of money and the financial system. This course uses the basic economic principles to introduce the structure of financial markets, financial institution management, the foreign exchange markets, the internationalization of financial markets and the role of monetary policy in the economy. This course offers students a well-balanced picture of interactions among money, the financial system, and the economy.

0400421

ELECTRONIC COMMERCE

This course provides an overview of the fast-growing economic system of electronic commerce. The course will describe and evaluate the use of computer networks to buy and sell products, information, and services. The following topics will be examined: electronic commerce and banking, retailing, advertising, business-to-business activities, supply-chain management, electronic payment systems, transaction security, legal, ethical, and societal issues.

0400522

MANAGERIAL ECONOMICS

This course is designed to acquaint students of Business Administration with the economics of managerial decision making, with special attention to the criteria for rational decision making in private business, non-profit institutions, and public agencies. This course emphasizes the application of economic theory and tools of decision science to examine how an organization can achieve its objectives most efficiently. It is an application of economic theory and analysis the managerial decision-making process.

0400523

PUBLIC RELATIONS

The course represents a survey of the fundamental principles, tools

and practices of the public relations profession in addition to the issues involved in designing and evaluating public relations programs to solve specific internal and external communication problems.

0400524

FEASIBILITY STUDIES AND PROJECT EVALUATION

Feasibility studies and project evaluation has become increasingly important since it signals the success of any industrial, tourism, or investment project. This course is designed to introduce students to the concepts and the process of feasibility studies and project evaluation. It explains how to prepare feasibility studies and project evaluation and to benefit from it in investment decision making process. Feasibility studies and project evaluation depend on collecting and analyzing marketing, technical, administrative, and financial data and information.

0410501

PRODUCTION & OPERATIONS MANAGEMENT

This course is designed to cover principles of production and operations management as they relate to both manufacturing and service operations. The course will examine the following topics: decision-making process, forecasting, operations strategy, production planning, scheduling, productivity, quality control, and future trends in production and operations management.

0410602

HUMAN RESOURCE MANAGEMENT

The aim of this course is to survey the principles and practices in managing human resources. The course covers a number of basic topics such as: job analysis and job design techniques, human resource policies, human resources acquisition and maintenance strategies, recruitment, selection, development and training, compensation, health and safety issues and policies. The topic of labour relations and collective bargaining also receives careful attention.

0410603

INTERNATIONAL BUSINESS

This course covers a number of topics of both a general and specific nature. The course examines the objectives and motives of international companies (MNCs) for operating internationally and the strategies they use to achieve global presence. Special attention is given to the following topics: theories of international trade, domestic trade, free-trade and protectionism, tariffs, foreign exchange, foreign direct investments (FDI), international financial institutions, international corporate planning and competitive strategies.

0410704

PURCHASING AND MATERIALS MANAGEMENT

This course offers a survey of principles and techniques used in purchasing and material's management. The course examines the following topics in detail. Recognition of material needs, the acquisition process, and overall supply-management issues and policies. Within these broader topics, the course covers techniques used in materials requirement planning, stock and inventory control, transportation, stores management, quality and quality assurance, JIT and TQM.

0410705

COMPUTER APPLICATIONS IN MANAGEMENT

This advanced course is designed to allow students to develop and enhance their knowledge of computer application software packages and seek their application in core management areas. The students will be introduced to several different software packages including PERT and CPM used in project planning and controlling, and MRP, MPS, EOQ, MRPII used in materials management, and production/operations management.

0410706

STRATEGIC MANAGEMENT

This advanced course focuses on all aspects of the strategic management process, including, decision-making, company objectives, strategies, implementation and outcome-assessment. The course develops a thorough understanding among students about policy formulation and evaluation with special attention to capabilities, and competencies of a firm. The course also addresses issues relating to resource analysis and allocation techniques, and management of strategic change.

0410707

MANAGEMENT OF FINANCIAL INSTITUTIONS

This course offers a detailed coverage of financial institutions and strategies involved in their effective management. It looks at the modes of operations of different financial institutions and examines the strengths and limitations of each. Problems and issues relating to the management of assets and liabilities in financial institutions are also considered at length in this course. The role of non-bank financial institutions, such as insurance companies and credit unions will also receive due attention.

0410808

ORGANIZATIONAL THEORY & DESIGN

The primary aim of this course is to expose the students to the evolution of organization theory, and the contribution of different

schools of thought to the development of classical and contemporary theoretical perspectives. The topics of bureaucracy, power and politics, organizational structures and technology, and emerging design options will be extensively examined. The course also looks at the issues of information and control, organizational renewal and learning, techno-structural change and adaptive capacity of organizations.

0410809

SELECTED TOPICS IN MANAGEMENT

This is an advanced course in management. Its primary aim is to offer a more thorough examination of selected topics. The course instructor will select topics keeping in view students' interest and the availability of teaching material and resources. In general, an attempt will be made to include topics that received minimum attention in other management courses, or new areas that could not be covered in the prescribed syllabus. The choice of topics is expected to vary from semester to semester.

0410611

MANAGEMENT OF SMALL BUSINESS

The course is designed to answer the fundamental question that most students and aspiring entrepreneurs often ask: 'How to start and manage my own business?' With this objective the course discusses different types of businesses, legal organizations, accounting and financial requirements. Other specific topics covered include: obtaining capital, controlling inventory, setting prices, staffing, marketing strategies, growth and expansion decisions and strategies.

0410712

TOTAL QUALITY MANAGEMENT

This course offers an introduction to principles and philosophy of Total Quality Management. The course draws upon the writings of quality experts such as Deming, Juran, Crosby, and Taguchi to develop an understanding of the concepts of quality from the perspectives of customers and product/service organizations. The course also evaluates the criteria used in well-known quality awards.

0420501

FINANCIAL STATEMENT ANALYSES

FSA involves a comparison of a firm's /bank's performance with that of others in the same line of business. Generally speaking, the analysis is used to determine the financial position in order to identify current strengths and weaknesses, the course aims to provide the students with analytical skills.

0420602

AUDITING

Auditing is interdisciplinary in its scope and methodology. This course is designed to introduce students to basic concepts and standards. Concentration is mainly on auditing standards, ethics, principles and procedures used by external auditors in conducting financial and managerial audits.

0420603

COST ACCOUNTING

The accountant's role in decision-making is primarily that of a technical expert on cost analysis, cost control and cost reduction. Information that will lead to the best decision on production, marketing, profitability, performance evaluation, transfer pricing and capital budgeting. The study of the basic concepts and practical aspects of cost accounting is the primary concentration of this course.

0420604

ADVANCED ACCOUNTING

The course is concerned with business combinations and acquisitions to satisfy the needs of business expansions. The study of partnership and consolidated financial statements is the primary concern of this course.

0420705

GOVERNMENTAL ACCOUNTING

The activities of a non-profit organization differ to significant degree from profit-orientated organization. These differences reflect the emphasis of this course.

0420706

ADVANCED AUDITING

The course is designed to acquaint the student of accounting with the advanced practical aspects of auditing procedures and techniques with reference to the method of their application in commercial, industrial and other profit making organizations, paying particular attention to the assessment of risk, concept of internal control and assertions of assets and liabilities.

0420707

ACCOUNTING THEORY

Accounting Theory is concerned with the models, hypotheses, and concepts that together form the foundation for financial accounting practice. The course traces the historical developments of accounting to gain an understanding of how we arrived at current practices

together with the social, political, and economic influences on accounting standards.

0420808

ADVANCED COST ACCOUNTING

Accounting has evolved two techniques to aid short-term planning: budgetary control and standard costing. If accounting information is to be meaningful it must reflect the physical flows of inputs and outputs and the organizational structure. Only then can it be of help to management in monitoring the recent past and acting as a guide to future decisions. These are the subject matters of this course.

0420809

TOPICAL ISSUES IN ACCOUNTING

Five major factors are causing change in accounting practice, profession and concepts: (a) increased global competition (b) Trend of mergers and acquisitions (c) advances in technology (d) Islamization of financial dealings, and (e) shift from a manufacturing based to a service-based economy. The object of the course is to deal with a number of topics of a controversial nature in accounting. The course deals specifically with the theoretical basis and recent professional pronouncements related to some problems in financial reporting and disclosure.

0420810

COMPUTERIZED ACCOUNTING INFO. SYSTEM

The Computerized Accounting Information System joins together the skill sets of two areas experiencing rapid growth and change: accounting and information technology. The CAIS course is designed to provide this combination of knowledge and skill sets to meet the new challenges and opportunities of the information technology world.

0420612

INTERNATIONAL ACCOUNTING

The global economy is best characterized by a new economic and corporate world in which national boundaries are losing their importance. International Accounting looks at how to produce accounting information that reflects this international reality for both external and internal users.

0420613

ISLAMIC ACCOUNTING

Recently, there have been moves towards the Islamization of most, if not all, aspects of life in many countries in the Arab world and the world at large. Islam possesses its own paradigm of economic rela-

tions within the context of an entire economic system based on injunctions and norms derived from the Holy Koran and Sunna, called the Sharia doctrine, which constitutes the divine rules of Islam. This course provides a broad framework of the structure of Islamic accounting thought.

0420714

OIL AND GAS ACCOUNTING

Since the early 1970s, oil revenues have transformed the Gulf countries into a modern sophisticated industrialized economy. Crude oil exports, which are the preserve of the Gulf, remain the mainstay of economic activity. Oil and Gas accounting is concerned with the models and concepts that together form the foundation and practice of financial and cost accounting for the oil and gas industry.

0420716

TAXATION ACCOUNTING

Managers of local and multinational corporations in different countries face different tax systems that require adequate tax planning and knowledgeable people in the field of taxation accounting. The objective of the course is to equip students with basic tax calculation ability.

0430501

MARKETING RESEARCH

This course offers a closer review and examination of research techniques applicable to problem-solving and decision-making in marketing and other management fields. The course exposes the students to the complete research process starting with problem formulation and the definition of key concepts and analytical techniques, data collection, analysis, interpretation and presentation of findings. Students are required to develop a major marketing research project using appropriate field techniques.

0430602

CONSUMER BEHAVIOUR

The course introduces students to the study of consumer behaviour. In so doing, the course borrows key concepts and theories from the behavioural sciences and examines their relevance and usefulness in understanding shopping behaviour. Specifically the course traces those forces that shape, constrain and color consumer's buying decisions and their implications for mapping out marketing strategies.

0430603

ADVERTISING & PROMOTION

The prime focus of this course is on the communication function of

marketing which is known in the marketing literature as the promotional mix i.e. advertising, public relations, sales promotion and personal selling. As such, the course provides an understanding as to how these variables interact to constitute an integrated whole and impact.

0430604

MARKETING CHANNELS

The course follows an institutional approach to marketing by concentrating on the main institutions which are involved in making goods and services available for use and consumption. Given such a premise, the course sheds light on these institutions and dwells on their nature, types, history, functions and patterns of development.

0430605

SALES MANAGEMENT

The course represents a comprehensive survey, which dwells on the basic managerial approaches to the planning, implementation, and control of a firm's sales staff. The end result of the course is to enable students to gain an understanding of the basic principles and methods of managing sales' personnel.

0430706

BUSINESS-TO-BUSINESS MARKETING

The focus of this course is on studying and analyzing the unique aspects of marketing goods and services to organizational buyers rather than to ultimate consumers. Towards this end the course constitutes a description and analysis of the institutions and functions of business markets.

0430707

SERVICES MARKETING

The course explores the area of services marketing and identifies the main characteristics that set products and services marketing apart. As such the course represents an extension of the marketing management process beyond its traditional role in the physical products area.

0430808

INTERNATIONAL MARKETING

Interdependence among countries has forced business organizations to practice marketing beyond domestic boundaries. This course addresses this issue and endeavors to expose the students to international marketing and the application of marketing techniques and strategies in a global environment.

0430809

MARKETING MANAGEMENT

This is the capstone course in the marketing major. It is intended to help the students integrate the knowledge they acquired in other marketing courses. As such, it is a managerial decision-making process aimed at matching organizational strengths with market opportunities. The course looks at the relationships between the customer, competition and the company. It explores ways for the company to differentiate itself from competition by providing superior value to the customer.

0430810

COMPUTER APPLICATIONS IN MARKETING

The course represents an attempt to explore the potential of certain computerized statistical packages and programs in summarizing, organizing, interpreting and analyzing marketing data, in addition to the use of a host of advanced statistical packages in predicting specific marketing phenomena.

0430612

ELECTRONIC MARKETING

The course introduces the students to the Internet and Internet Marketing. In a sense, it enables them to use the Internet to market goods and services worldwide. Towards this end students will learn how to create and publish web pages, develop web marketing skills promote and sell products over the World Wide Web.

0430613

PRODUCT & BRAND MANAGEMENT

The product, (and/or service), plays a central role in the activities of all organizations; for it is the medium through which they seek to achieve their objectives and at the same time satisfy their customers. This course is designed to shed light on issues relevant to product and brand management processes. Specifically, the courses focus on two major problems:

- * the development and introduction of new products/brands from the idea inception to commercialization.

- * the marketing of existing brands with emphasis on building, measuring and managing brand equity.

0430714

RETAIL MARKETING

The course provides an overview of the field of retailing and endeavors to familiarize the students with the basic concepts and issues that are deemed pertinent in today's world of retailing and retail marketing; including, but not limited to, the nature and structure of retail industry, the determinants of successful retail market-

ing strategies and the fundamental principles of sound retail management.

0430715

SELECTED TOPICS IN MARKETING

This course caters for specific issues, topics and recent developments in marketing thought and practice that are new or controversial in nature and that were not adequately covered or addressed in other marketing courses.

0440501

CORPORATE FINANCE

This course is designed to introduce an overview of corporate finance, financial statements and long-term financial planning, valuation of future cash flows, capital budgeting, risk and return, cost of capital and long-term financial policy, and also short-term financial planning and management

0440602

INTRODUCTION TO INSURANCE

The contents are based on the belief that the study of insurance, a major tool of risk management, should be preceded by an understanding of the concept of risk-management, and the insurance industry, and providing a conceptual analysis and attention to business risk-management.

0440603

FINANCIAL PLANNING & CONTROL

The financial markets and how they interact with companies. The role of accounting and financial information and the concepts are studied upon which preparation and analysis are built the examination as are the fundamental concepts in quantitative methods. Knowledge of the main financial analysis techniques and an appreciation of the all-embracing influence of financial systems on an organization are included. An appreciation of the elements of financial planning and of ensuring financial stability are highlighted.

0440604

COMMERCIAL BANKING

This commercial bank management course will equip the students with a very strong background in the banking industry, and describe both the theory and practice of commercial banking from a financial-management perspective. Focusing on the dynamic and rapidly changing financial-services industry, it explores modern financial management decision-making and highlights the importance of adapting to change and creating value as the way for firms to succeed.

0440705

FINANCIAL MARKETS

The aim of this course is to build a strong background for understanding financial markets and different participants in these markets. The topics that will be covered include the determination of interest rates; fixed income, mortgage, foreign exchange, futures, options, and money markets; commercial banks, savings banks, and credit unions; insurance companies, securities firms, finance companies, mutual funds, and pension funds.

0440706

FINANCIAL RISK MANAGEMENT

This module assumes no prior education in finance. It develops fundamental models of valuation and investment from first principles and applies them to problems of corporate and individual decision-making. Topics covered include the net present value investment criterion, valuation of annuities, perpetuities, bonds and stocks, the basics of the securities markets and capital budgeting decisions. The second half of the course introduces portfolio theory and the trade-off between risk and return.

0440707

INTERNATIONAL FINANCE

This course is designed to introduce an overview of the environment of global finance, the international dimension of corporate finance, balance of payments and exchange market, international monetary system, political risk, international cash management, international portfolio diversification, foreign direct investment and international and other developmental international financial issues.

440808

SELECTED TOPICS IN FINANCE

Among the topics considered is recent thinking on capital structure, including its evolution in this century, and studies of investors' reactions to changes in a firm's capitalization. The role of various types of new securities will be assessed. Islamization in the banking industry will be examined in these topical issues. We will also look at the market's response to investment announcements, the cost, (under) pricing, and performance of new issues, the role of venture capital, and the market's reaction to spin-off, mergers, and takeovers.

0440809

INVESTMENTS

This module assumes no prior education in finance. It develops fundamental models of valuation and investment from first principles

and applies them to problems of corporate and individual decision-making. Topics covered include the net present value investment criterion, valuation of annuities, perpetuities, bonds and stocks, the basics of the securities markets and capital budgeting decisions. The second half of the course introduces portfolio theory and the trade-off between risk and return. It presents two asset-pricing models, the Capital Asset Pricing Model and the Arbitrage Pricing Theory, and applies them to the calculation of the firm's cost of capital.

0440810

COMPUTER APPLICATIONS IN FINANCE

This computer application in finance course will equip students with practical experience and a good background in computer applications in finance. Focusing on the dynamic and rapid changes in finance and highlighting the importance of adapting to change. The following areas will be applied using computers financial ratios analysis, break-even analysis, time-value of money, IRR, measurement of risk and return, credit-scoring models, measuring yield, and advanced models in finance.

0440612

PERSONAL FINANCE

This personal finance course assumes the student's desires to maximize financial resources over his/her lifetime. This course will discuss the latest financial planning tools and techniques that will enable an individual to achieve his/her financial goals. Financial and personal satisfactions are the result of an organized process referred to as personal money management

0440714

PUBLIC FINANCE

This course develops an understanding of the economic basis for government activities. The course focuses on issues such as efficiency, market failure, externalities, public good, public choice and benefit, and cost analysis. Principles of government finance and public policy debates are discussed. Special consideration is given to taxation, public expenditure, public debt, and fiscal administration.

0440715

ISLAMIC BANKING

This Management of Islamic Banking course will equip the students with a very strong background in the banking industry, and describes both the theory and practice of Islamic banking from a financial-management point of view. Focusing on the dynamic and rapidly changing financial-services industry, it explores modern

financial management decision-making and highlights the importance of adapting to change and creating value as the way for firms to succeed.

0440816

PORTFOLIO MANAGEMENT

This course is designed to introduce an overview of portfolio management more specifically securities and security analyses, risk and return, environment analyses, company analyses, bond analyses, options, rights, warrants and convertibles, futures, efficient-market theory, portfolio analyses and selection, Capital market theory, managed portfolios and performance measurements.

440616

SUPERVISED TRAINING

Training gives the students the opportunity to practise what they have learned in the class room. It also helps to bridge the gap between theory and practice. Consequently the supervised training course is embodied in the FBA curriculum to achieve these objectives. Accordingly, the students taking this course spend three months (12 weeks) in a public or a private institution of their own choice, exercising what they have learned in their academic discipline

400513

QUANTITATIVE METHODS

The aim of this course is to review basic quantitative methods used in business decision-making. The major focus of the course will be

on decision-making under uncertainty and certainty such as linear programming. Some of the specific topics to be covered will include: problem formulation, graphic solutions and different forms of linear programming such as transportation and assignment models, queuing theory, decision analysis, inventory systems and forecasting.

410811 (MANAGEMENT)

420811 (ACCOUNTING)

430811 (MARKETING)

440811 (FINANCE)

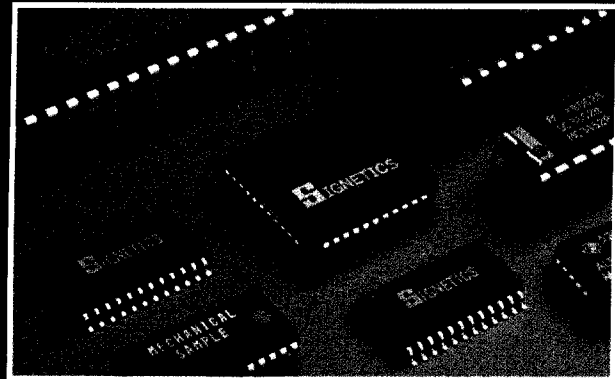
GRADUATION PROJECT

This course is in the form of a dissertation carried out by graduating students in partial fulfilment of the BSc. degree in the Management, Accounting, Marketing, and Finance Programs. Students choose an appropriate research project on their own, justify it, work out the research methodology, analyze, synthesize, and evaluate information then communicate significant knowledge and understanding. The proposed research should be related to the program. An academic advisor is assigned to advise the student at various stages of the research project. This course culminates in preparing a dissertation which has to be presented by each student. This course is integral part of the curriculum in order to train students on how to undertake scientific research and to bridge the gap between theory and practice in management, accounting, marketing, or finance.



FACULTY MEMBERS **ACADEMIC YEAR 2004-2005**

Academic Rank	No.
Professors	2
Associate Professors	4
Assistant Professors	31
Lecturers	0
Total	37
Dean	1
Deputy Deans	3



FACULTY OF COMPUTER SCIENCE AND COMPUTER ENGINEERING

E-mail : computer@ajman.ac.ae

CONTENTS

Introduction	100
Mission	100
Objectives	100
Faculty Facilities	102
Training	102
Degrees Offered	102
Bachelor in Computer Science	103
Bachelor in Computer Engineering	110
Bachelor in Information Systems	119
Diploma in Information Technology	126
Course Description	138
Faculty Members	140

Introduction

The rapid growth in the development of computer hardware, software, information technology and the widespread applications in all aspects of life created a considerable demand for computer graduates in all specializations. The faculty of Computer Science and Computer Engineering has the reputation of offering quality teaching and training programs to prepare its students for a much needed career in the dynamic and rapidly evolving computing industry of today.

The faculty provides a high quality education program in a friendly, high technology productive and enjoyable environment.

Mission:

- Participate in the overall mission of the University with commitment to high standards of teaching and training.
- Provide our graduates with the knowledge, training and skills to tackle emerging Information Technology (IT) problems.
- Break the barriers between academia and the market.
- Prepare students for graduate studies in different disciplines of computing.
- Contribute to the development of the UAE society and the region in the area of IT.

Objectives:

- Provide students with computer knowledge and on academic background based on internationally recognized academic standards (ACM/IEEE).
- Prepare students for a career in a dynamic and rapidly evolving industry.
- Provide students with an understanding of, and techniques for, the entire problem solving process as applied to the IT field.
- Provide graduates with communication skills and the ability to work in a team.
- Encourage research and development in IT related fields.
- Provide an environment in which students are exposed to the ethical and legal issues associated with the IT field.
- Offer faculty members an environment within which they can be a tutor, researcher, trainer, expert and practitioner.

Faculty Facilities

The Faculty is equipped with state of the art computing facilities which are among the best in the region. These facilities are regularly upgraded. All university computers are connected through local and wide area networks (ATM). Multimedia facilities are provided in all University labs. Other facilities include electronics, microprocessor and computer network labs. In addition to SUN Microsystem servers with ORACLE and SOLARIS Operating systems.

All staff and students computers are linked to the Internet. A designated internet lab is also available on each campus of the university. The laboratories, as well as the computer equipment, provide students with excellent support in their lower and upper level of undergraduate courses.

The faculty also maintains a library of computer textbooks. This library is regularly updated with the latest books in the field, for the benefit of both students and faculty members.



Training

The faculty places great emphasis on training. The objective of this training is to provide the student with the experience, through extended industrial placement, where the student applies academic learning to a real life situation.

Degrees Offered

The faculty offers three different Bachelor degrees, and one Diploma, which provide the student with an excellent foundation for satisfying his/her career requirements, or future study. They also provide the student with a sound theoretical and practical background.

The three degrees are:

- 1- Bachelor of Science in Computer Science (4 years)
- 2- Bachelor of Science in Computer Engineering (5 years)
- 3- Bachelor of Science in Information Systems (4 years)

The diploma is:

- Diploma in Information Technology (2 years)

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

The Bachelor of Science in Computer Science at Ajman University of Science and Technology Network is normally a 4-year course accredited by the Ministry of Higher Education. Students are offered a wide range of subjects throughout their 4 years of study.

Mission

- * Provide computer scientists who are distinguished by the higher level of theoretical expertise and innovation that they apply to complex problems and the creation or application of new technology.
- * Provide computer scientists equipped with problem solving and system design skills necessary for designing and building robust, efficient, reliable, scaleable and flexible software systems.
- * Prepare students for a professional career or encourage them to pursue advanced studies in computer science.

Objectives

The objective of the B.Sc. program in computer science is to give the student an in-depth treatment of the fundamentals of computer science and its broad applications through a balanced choice of appropriate subjects. Focusing on both theoretical and practical skills and techniques, the B.Sc. program aims at providing:

- * computer scientists who are able to work in an academic institution or in private industry. Work areas may include: multi-discipline projects, programming language design, designing programming tools, knowledge-based systems, etc;
- * professionals who understand user interface design and implementation techniques, Internet, and Multimedia;
- * software engineers who are equipped with the tools necessary for building and testing software systems;
- * graduates who can pursue graduate studies and research.

Admission Requirements

The normal entry requirement for an applicant is the U.A.E. secondary certificate or an equivalent qualification (scientific section) with a minimum grade of 60%.

Career Opportunities

Computer science graduates are in high demand. Many graduates of AUST Network have been employed on a full-time basis by well known IT companies. Graduates of AUST Network are well-prepared to gain the theoretical and the practical skills to work in diverse areas such as system analysis, databases, software engineering, networking, general programming. In addition students are eligible to pursue graduate studies and research.

Graduation Requirements

Students at Ajman University of Science & Technology Network are eligible for a Bachelor of Science in Computer Science after completion of 132 credits hours, which normally takes eight semesters. In addition, students must undertake 12 weeks of industrial training in a summer session, which is equivalent to 3 credit hours. The minimum cumulative grade point average for graduation is 2.0.

PLAN FOR B.Sc. IN COMPUTER SCIENCE

The B.Sc. degree in computer science requires the completion of 135 Cr.hrs. distributed according to the following plan:

Type of Courses	Cr.hrs.
1. University Requirements	
1.1 Compulsory Courses	15
1.2 Elective Courses	09
2. Faculty Requirements	
2.1 Compulsory Courses	25
2.2 Elective Courses	0
3. Specialization Requirements	
3.1 Compulsory Courses	
3.1.1 Faculty Courses	57
3.1.2 Non-Faculty Courses	14
3.2 Elective Courses	
3.2.1 Faculty Courses	12
3.2.2 Non-Faculty Courses (Table 7)	03
Total Credit Hours	135



1. UNIVERSITY REQUIREMENTS

UNIVERSITY COMPULSORY COURSES (15 Cr. Hrs.)

Course No.	Course Title	Theo.	Tut.	Lab.	Cr.Hrs.	Prerequisite	Remarks
130130	Statistics	2	0	2	3	-	-
310100	Information Technology Fundamentals	2	0	2	3	-	-
500110	Islamic Studies	3	1	0	3	-	-
500120	Arabic Language	3	0	0	3	-	-
600101	English I	3	0	0	3	-	-
111000	Orientation	0	0	0	0	-	-

UNIVERSITY ELECTIVE COURSES (9 Cr. Hrs.)

Course No.	Course Title	Theo.	Tut.	Lab.	Cr.Hrs.	Prerequisite	Remarks
110110	Mathematics I	3	2	0	3	-	Required
150150	Scientific Pioneering	3	0	0	3	-	Advisable
150151	History of Science in Islam	3	0	0	3	-	Advisable
500130	General Psychology	3	0	0	3	-	Advisable
514330	Research Methodology	3	0	0	3	-	Advisable
600102	English II	3	0	0	3	600101	Required
700100	Environment Water & Energy	3	0	0	3	-	Advisable

2. FACULTY REQUIREMENTS

FACULTY COMPULSORY COURSES (25 Cr. Hrs.)

Course No.	Course Title	Theo.	Tut.	Lab.	Cr.Hrs.	Prerequisite	Remarks
310112	Programming I	2	2	2	3	310100	-
310210	UNIX	0	0	2	1	310100	-
310211	Programming II	2	2	2	3	310112	-
311223	Data Structures & Algorithms	3	0	0	3	310211	-
311284	Technical Report Writing	3	0	0	3	600102	-
311335	Software Engineering	3	0	0	3	311331	-
311451	Operating Systems	3	0	0	3	311342	-
311462	Data Com. & Comp. Networks I	3	0	0	3	60 Cr.h.	-
311471	Artificial Intelligence	2	0	2	3	80 Cr.h.	-

3. SPECIALIZATION REQUIREMENTS

Specialization Requirements -Faculty Courses (57 Cr. Hrs.)

Course No.	Course Title	Theo.	Tut.	Lab.	Cr.Hrs.	Prerequisite
311221	Discrete Structures	3	0	0	3	110110, 310100
311242	Digital Logic Design	2	0	2	3	310100
311244	Microcomputer Systems & Assembly Language	2	0	2	3	310211
311300	Training (Computer Science)	-	-	-	3	60 Cr.hrs.
311311	Computational Mathematics	2	0	2	3	120110
311319	Introduction to Formal Languages & Automata	3	0	0	3	311221
311321	Computer Graphics	2	0	2	3	310211, 311311
311323	Operational Research	3	0	0	3	130130, 120110
311331	System Analysis & Design	3	0	0	3	310211
311332	Database Management Systems	2	0	2	3	311223
311342	Computer Architecture	3	0	0	3	311242
311422	Organization of Programming Languages	3	0	0	3	311223
311423	Object Oriented Programming	2	0	2	3	311223
311431	Project I	1	0	4	3	100 Cr.hrs.
311432	Project II	1	0	4	3	311431
311442	Design & Analysis of Algorithms	3	0	0	3	311223
311460	Multimedia	2	0	2	3	60 Cr.hrs.
311463	Database Design & Implementation	2	0	2	3	311332
311472	Compiler Theory & Design	3	0	0	3	311319, 311223

Specialization Requirements - Non-Faculty Courses (14 Cr. Hrs.)

Course No.	Course Title	Theo.	Tut.	Lab.	Cr.Hrs.	Prerequisite
120110	Mathematics II	3	2	0	3	110110
120111	Physics I	3	2	2	4	-
120112	Physics II	3	2	2	4	120111
400291	Introduction to Management	3	0	0	3	-

Specialization Electives - Faculty Courses (12 Cr. Hrs.)

Course No.	Course Title	Theo.	Tut.	Lab.	Cr.Hrs.	Prerequisite
310434	Computers and Society	3	0	0	3	60 Cr.hrs.
310445	Selected Topics in Programming Languages	2	0	2	3	310211
310460	Network Administration	2	0	2	3	311462
310466	Computer Security	3	0	0	3	311462
311248	Micro-processor Systems & Design	2	0	2	3	311244
311435	Human Computer Interaction	3	0	0	3	60 Cr.h.
311448	Theory of Computation		3	0	0	311221
311450	Selected Topics in Computer Science	2	0	2	3	60 Cr.h.
311453	Parallel Processing	2	0	2	3	60 Cr.h.
311464	Data Comm. & Computer Networks II	2	0	2	3	311462
311473	Topics in Simulation	2	0	2	3	310211, 45 Cr.hrs.
311475	Expert Systems & Applications	2	0	2	3	311471
311476	Natural Language Processing	2	0	2	3	311471
311478	Fault-Tolerant Computing	3	0	0	3	311342
311485	Computational Graph Theory	3	0	0	3	311221

Note: A student may take one elective from the computer engineering or information system study plans

Specialization Electives - Non-Faculty Courses (3 Cr. Hrs.)

Course No.	Course Title	Theo.	Tut.	Lab.	Cr.Hrs.	Prerequisite
400292	Principles of Accounting	3	0	0	3	-
700126	General Chemistry	2	0	2	3	-

STUDENT PLAN FOR THE B.Sc. DEGREE IN COMPUTER SCIENCE

FIRST SEMESTER

Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
110110	Mathematics I	3	2	0	3	-
120111	Physics I	3	2	2	4	-
310100	Information Technology Fundamentals	2	0	2	3	-
500110	Islamic Studies	3	1	0	3	-
500120	Arabic Language	3	0	0	3	-
600101	English I	3	0	0	3	-
TOTAL		17	4	4	19	

SECOND SEMESTER

Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
120110	Mathematics II	3	2	0	3	110110
120112	Physics II	3	2	2	4	120111
310112	Programming I	2	2	2	3	310100
310210	UNIX	0	0	2	1	310100
311242	Digital Logic Design	2	0	2	3	311101
600102	English II	3	0	0	3	600101
TOTAL		13	6	8	17	

THIRD SEMESTER

Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
130130	Statistics	2	0	2	3	-
310211	Programming II	2	2	2	3	310112
311221	Discrete Structures	3	0	0	3	110110, 310100
311311	Computational Mathematics	2	0	2	3	120110
400291	Introduction to Management	3	0	0	3	-
xxxxxx	University Elective	3	0	0	3	-
TOTAL		15	2	6	18	

FOURTH SEMESTER

Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
311223	Data Structures & Algorithms	3	0	0	3	310211
311244	Microcomp. Sys. & Assembly Language	2	0	2	3	310211
311284	Technical Report Writing	3	0	0	3	600102
311323	Operational Research	3	0	0	3	120110, 130130
xxxxxx	Basic Science Elective	3	0	0	3	-
TOTAL		14	0	2	15	

Summer session: Industrial training for six weeks (1.5 Cr.h.)

FIFTH SEMESTER

Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
311321	Computer Graphics	2	0	2	3	310211, 311311
311331	System Analysis & Design	3	0	0	3	310211
311342	Computer Architecture	3	0	0	3	311242
311319	Intro. to Formal Lang. & Automata	3	0	0	3	311221
311423	Object Oriented Programming	2	0	2	3	311223
311442	Design & Analysis of Algorithms	3	0	0	3	311223
TOTAL		16	0	4	18	

SIXTH SEMESTER

Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
311332	Database Management Systems	2	0	2	3	311223
311335	Software Engineering	2	0	2	3	311331
311472	Compiler Theory & Design	3	0	0	3	311319, 311223
311422	Organization of Programming Languages	3	0	0	3	311223
311462	Data Comm. & Computer Networks I	3	0	0	3	60 Cr.hrs.
TOTAL		13	0	4	15	

Summer Session: industrial training for six weeks (1.5 Cr.h.)

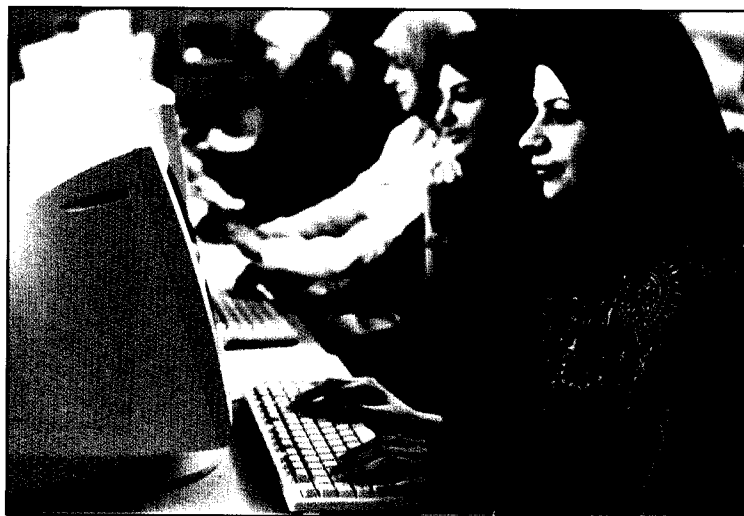
SEVENTH SEMESTER

Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
311451	Operating Systems	3	0	0	3	311342
311431	Project I	1	0	4	3	100 Cr.h.
311471	Artificial Intelligence	2	0	2	3	80 Cr.h.
311463	Database Design & Implementation	2	0	2	3	311332
xxxxxx	Major Elective I	3	0	0	3	-
TOTAL		11	0	8	15	

EIGHTH SEMESTER

Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
311460	Multimedia	2	0	2	3	60 Cr.hrs.
311432	Project II	1	0	4	3	311431
xxx xxx	Major Elective II	3	0	0	3	-
xxx xxx	Major Elective III	3	0	0	3	-
xxx xxx	Major Elective IV	3	0	0	3	-
TOTAL		12	0	6	15	

The minimum number of credits required for the Bachelor of Science degree is 132 Cr.hrs. In addition, the student must complete a 12-week training period (3 Cr.hrs.)



BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

The Bachelor of Science in Computer Engineering at Ajman University of Science & Technology is normally a 5-year course, accredited by the Ministry of Higher Education. Students are offered a wide range of subjects and training throughout their five years of study.

Mission

- * Provide computer engineers who are able to apply the theories and principles of science and mathematics to the design of hardware, software, and networks.
- * Provide computer engineers capable of building prototypes, working both with hardware and software aspects of systems design and development.
- * Prepare students for a professional career or encourage them to pursue advanced studies in computer engineering.

Objectives

Providing knowledge and skills in:

- * hardware and software design.
- * interaction between hardware and software.
- * computer aided design and simulation.
- * integration of hardware components.

Admission Requirement:

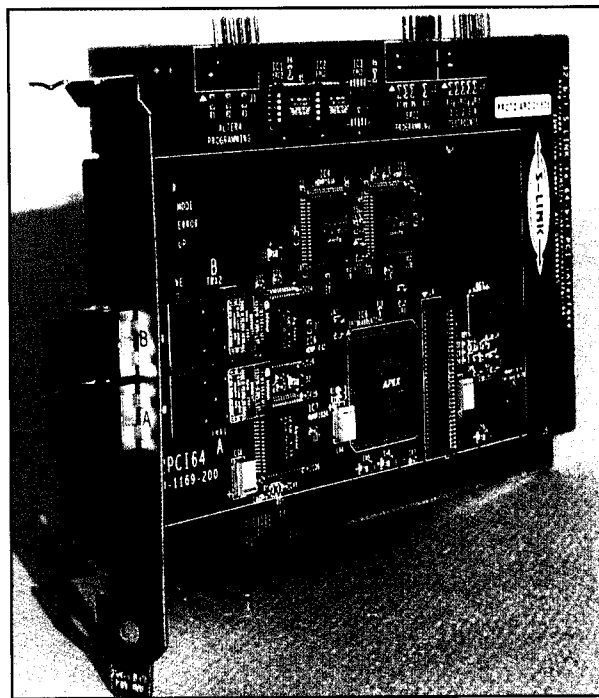
The normal entry requirements for applicants are the UAE secondary school certificate or an equivalent qualification (scientific section) with a minimum grade of 70%.

Career Opportunities

Computer engineers can find wide-ranging job opportunities in both computer hardware and software design analysis and maintenance, in governmental and private sectors. Students holding a Bachelor in computer engineering can also go on to undertake research and higher degrees in graduate programs.

Graduation Requirements

Students at Ajman University of Science & Technology Network are eligible for a Bachelor of Science in Computer Engineering after completion of 160 credits hours, which normally takes 10 semesters. In addition, a student must undertake 16 weeks of industrial training in a summer session, which is equivalent to 4 credit hours. The minimum cumulative grade point average for graduation is 2.0.



PLAN FOR B.Sc. IN COMPUTER ENGINEERING

The B.Sc. degree in Computer Engineering requires the completion of 164 credit hours distributed according to the following plan:

Type of Courses	Credit hours
1. University Requirements	
1.1 Compulsory Courses	15
1.2 Elective Courses	09
2. Faculty Requirements	
2.1 Compulsory Courses	25
2.2 Elective Courses	0
3. Specialization Requirements	
3.1 Compulsory Courses	
3.1.1 Faculty Courses	59
3.1.2 Non-Faculty Courses	44
3.2 Elective Courses	
3.2.1 Faculty Courses	12
3.2.2 Non-Faculty Courses	
Total Credit Hours	164

1. UNIVERSITY REQUIREMENTS

UNIVERSITY COMPULSORY COURSES (15 Cr. Hrs.)

Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
130130	Statistics	2	0	2	3	-
310100	Information Technology Fundamentals	2	0	2	3	-
500110	Islamic Studies	3	1	0	3	-
500120	Arabic Language	3	0	0	3	-
600101	English I	3	0	0	3	-
111000	Orientation	0	0	0	0	-

UNIVERSITY ELECTIVE COURSES (9 Cr. Hrs.)

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite	Remarks
110100	Mathematics I	3	2	0	3	-	Required
150150	Scientific Pioneering	3	0	0	3	-	Advisable
150151	History of Science in Islam	3	0	0	3	-	Advisable
500130	General Psychology	3	0	0	3	-	Advisable
514330	Research Methodology	3	0	0	3	-	Advisable
600102	English II	3	0	0	3	600101	Required
700100	Environment Water & Energy	3	0	0	3		Advisable

2. FACULTY REQUIREMENTS

FACULTY COMPULSORY COURSES (25 Cr. Hrs.)

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
310112	Programming I	2	2	2	3	310100
310210	UNIX	0	0	2	1	310100
310211	Programming II	2	2	2	3	310112
311223	Data Structures & Algorithms	3	0	0	3	310211
311284	Technical Report Writing	3	0	0	3	600102
311335	Software Engineering	3	0	0	3	311223
311451	Operating Systems	3	0	0	3	311342
311462	Data Communications & Computer Networks-I	3	0	0	3	60 Cr.h.
311471	Artificial Intelligence	2	0	2	3	80 Cr.h.

3. SPECIALIZATION REQUIREMENTS

Specialization Requirements Faculty Courses (59 Cr. Hrs.)

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
311102	PC Applications	2	0	2	3	310100
311224	Numerical Analysis	3	0	2	4	111223, 310112
311242	Digital Logic Design	2	0	2	3	310100
311244	Microcomputer Systems & Assembly Language	2	0	2	3	310211
311248	Microprocessor Systems and Design	2	0	2	3	311244
311342	Computer Architecture	3	0	0	3	311242
311352	Systems Programming	2	0	2	3	311244
311478	Fault Tolerant Computing	3	0	0	3	311342
312300	Training (Computer Engineering)	-	-	-	4	75 Cr.h.
312302	Electronics I	2	0	2	3	215202
312303	Electronics II	2	0	2	3	312302
312305	Elec. and Electronic Measurements & Instrumentation	2	0	2	3	215202
312322	Mathematics for Engineers	3	0	0	3	111122
312442	Computer Hardware Design	3	0	0	3	311342
312444	Computer Interfacing	3	0	0	3	311248
312477	Computer-Aided Design	2	0	2	3	215202, 311242
312531	Project I	1	0	4	3	120 Cr.hrs.
312532	Project II	1	0	4	3	312531
312542	Advanced Architectures and Systems	3	0	0	3	311342

Specialization Requirements - Non-Faculty Courses (44 Cr. Hrs.)

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
111122	Mathematics II (Computer Engineers)	3	2	0	3	110100
111223	Mathematics III	3	2	0	3	111122
112224	Mathematics IV	3	2	0	3	111223
121131	Physics I (Computer Engineering)	3	2	2	4	-
121132	Physics II (Computer Engineering)	3	2	2	4	121131
201102	Engineering Graphics	2	0	2	3	-
211415	Digital Integrated Circuits	3	0	1	3	312303
212523	Digital Data Communications	3	0	1	3	214441
212531	Digital Signal Processing	3	0	1	3	214441
214342	Control Systems	3	0	1	3	112224
214441	Signals and Systems	3	0	1	3	112224
215201	Circuit Analysis I	3	0	1	3	121132
215202	Circuit Analysis II	3	0	1	3	215201
700126	General Chemistry	2	0	2	3	-



Specialization Electives - (12 Cr. Hrs. in any four courses from faculty or non-faculty courses)

Specialization Electives - Faculty Courses

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
311321	Computer Graphics	2	0	2	3	311223
311435	Human Computer Interaction	3	0	0	3	60 Cr.hrs.
311453	Parallel Processing	2	0	2	3	80 Cr.hrs.
311460	Multimedia	2	0	2	3	60 Cr.hrs.
311464	Data Comm. & Computer Networks II	2	0	2	3	311462
311472	Compiler Theory and Design	3	0	0	3	311223
311475	Expert Systems and Applications	3	0	0	3	311471
312530	Selected topics in Computer Engineering	3	0	0	3	60 Cr.hrs.
312552	Performance Evaluation of Computer Systems	3	0	0	3	311342
312560	Digital Image Processing	3	0	1	3	214441
312570	Fuzzy Logic and Neural Networks	3	0	0	3	80 Cr. hrs

Note: A student may take one elective from the computer science or information system study plans

Specialization Electives - Non - Faculty Courses

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
211516	Circuit Design with VLSI	3	0	1	3	311248, 312303
214443	Industrial Control Systems	3	0	1	3	214342
214546	Intelligent Systems and Robotics	3	0	1	3	214342, 311248

STUDENT PLAN FOR THE B.Sc. DEGREE IN COMPUTER ENGINEERING

FIRST SEMESTER

Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
310100	Information Technology Fundamental	2	0	2	3	-
500110	Islamic Studies	3	1	0	3	-
500120	Arabic Language	3	0	0	3	-
121131	Physics I (Computer Engineering)	3	2	2	4	-
600101	English I	3	0	0	3	-
110100	Mathematics I (Computer Engineering)	3	2	0	3	-
Total		17	4	4	19	

SECOND SEMESTER

Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
111122	Mathematics II (Computer Engineering)	3	2	0	3	110100
121132	Physics II (Computer Engineering)	3	2	2	4	121131
310112	Programming I	2	2	2	3	310100
311102	PC Applications	2	0	2	3	310100
311242	Digital Logic Design	2	0	2	3	310100
600102	English II	3	0	0	3	600101
Total		15	6	8	19	

THIRD SEMESTER

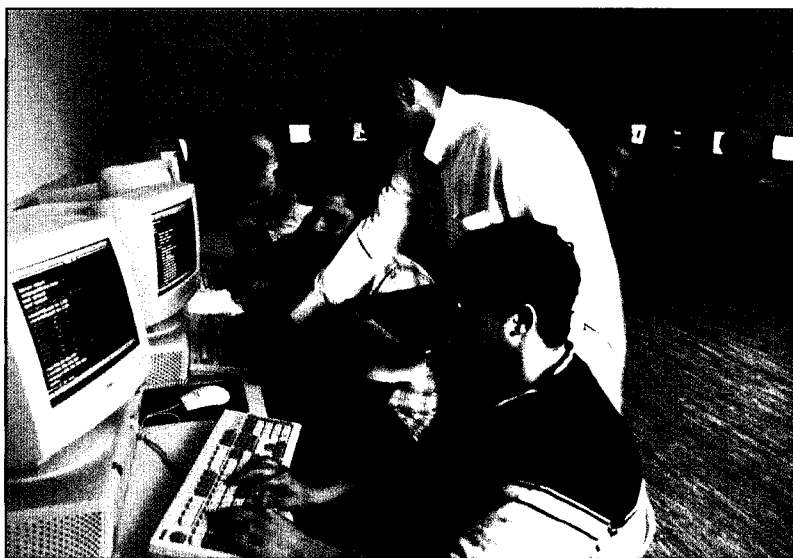
Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
111223	Mathematics III	3	2	0	3	111122
310211	Programming II	2	2	2	3	310112
700126	General Chemistry	2	0	2	3	-
310210	UNIX	0	0	2	1	310100
215201	Circuit Analysis I	3	0	1	3	121132
xxxxxx	University Elective	3	0	0	3	-
Total		13	4	7	16	

FOURTH SEMESTER

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
112224	Mathematics IV	3	2	0	3	111223
201102	Engineering Graphics	2	0	2	3	-
311284	Technical Report Writing	3	0	0	3	600102
215202	Circuit Analysis II	3	0	1	3	215201
311244	Microcomputer Systems & Assembly Language	2	0	2	3	310211
311223	Data Structures & Algorithms	3	0	0	3	310211
Total		16	2	5	18	

FIFTH SEMESTER

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
130130	Statistics	2	0	2	3	-
214441	Signals and Systems	3	0	1	3	112224
312322	Mathematics for Engineering	3	0	0	3	111122
311352	Systems Programming	2	0	2	3	311244
312302	Electronics I	2	0	2	3	215202
Total		12	0	7	15	



SIXTH SEMESTER

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
214342	Control Systems	3	0	1	3	112224
311248	Microprocessor Systems & Design	2	0	2	3	311244
311224	Numerical Analysis	3	0	2	4	310112,111223
312303	Electronics II	2	0	2	3	312302
312305	Electrical & Electronic Instrumentation and Measurements	2	0	2	3	215202
Total		12	0	9	16	

SUMMER SESSION: Industrial training for 8 weeks (2 credit hours)

SEVENTH SEMESTER

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
212523	Digital Data Communications	3	0	1	3	214441
311335	Software Engineering	3	0	0	3	311223
311471	Artificial Intelligence	2	0	2	3	80 Cr. h.
311342	Computer Architecture	3	0	0	3	311242
312302	Computer Aided Design	2	0	2	3	215202,311242
Total		13	0	5	15	

EIGHTH SEMESTER

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
211415	Digital Integrated Circuits	3	0	1	3	312303
311451	Operating Systems	3	0	0	3	311342
311462	Data Communication & Computer Networks I	2	0	2	3	60 Cr. h.
312442	Computer Hardware Design	2	0	2	3	311342
312444	Computer Interfacing	2	0	2	3	311248
Total		12	0	7	15	

SUMMER SESSION: Industrial training for 8 weeks (2 credit hours)

NINTH SEMESTER

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
212531	Digital Signal Processing	3	0	1	3	214441
312531	Project I	1	0	4	3	120 Cr. Hrs.
312542	Advanced Architectures and Systems	2	0	2	3	311342
xxxxxx	Computer Engineering Elective I	3	0	0	3	60 Cr. Hrs.
xxxxxx	Computer Engineering Elective II	3	0	0	3	60 Cr. Hrs.
Total		12	0	7	15	

TENTH SEMESTER

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
311478	Fault Tolerant Computing	3	0	0	3	311342
312532	Project II	1	0	4	3	312531
xxxxxx	Computer Engineering Elective III	3	0	0	3	60 Cr. Hrs.
xxxxxx	Computer Engineering Elective IV	3	0	0	3	60 Cr. Hrs.
Total		10	0	4	12	

The minimum number of credits required for the Bachelor in Computer Engineering is 160 credit hours. In addition, the student must complete a 16-week training period (4 Cr.hrs.)

BACHELOR OF SCIENCE IN INFORMATION SYSTEMS

The Bachelor of Science in Information Systems at Ajman University of Science and Technology is normally a 4-year course, accredited by the Ministry of Higher Education. Students are offered a wide range of subjects and applications as well as training through their 4 years of studies.

Mission

- * Contribute to commercial, professional, governmental, and other organizations in the field of information systems design and implementation through the provision of highly-skilled professionals.
- * Contribute to the development of the region and to the promotion of the UAE as a center of information technology in the region.
- * To prepare students for a professional career or encourage them to pursue advanced studies in information systems.

Objectives

- * Provide students with the ability to design and implement Information systems that give solutions for organizations.
- * Provide students with problem solving skills and techniques
- * Provide graduates with communication skills and the ability to work in a team
- * Provide an environment in which students are exposed to the ethical and legal issues associated with the information systems field.
- * Expose students to the latest technological development in programming, database management systems and business related software.

Admission Requirements

The normal entry requirement for applicants is the U.A.E secondary school certification or an equivalent qualification (all sections) with an average grade of (60% in the scientific section and 65% in Arts section).

Career Opportunities

Graduates of this degree will be in great demand and targeted by all types of organizations using Information Technology in running their activities as well as software companies developing information systems. Graduates can also pursue higher graduate studies.

Graduation Requirements

Students of Ajman University of Science & Technology Network are eligible for a Bachelor of Science in Information Systems after completion of 128 credits hours, which normally takes eight semesters. In addition, students must undertake 12 weeks of industrial training in a summer session which is equivalent to 3 credit hours. The minimum a cumulative grade point average for graduation is 2.0.

PLAN FOR B.Sc. IN INFORMATION SYSTEMS

The B.Sc. degree in Information Systems requires the completion of a 131 credit hours distributed according to the following plan:

Type of Courses	Credit/hour
1. University Requirements	
1.1 Compulsory Courses	16
1.2 Elective Courses	09
2. Faculty Requirements	
2.1 Compulsory Courses	25
2.2 Elective Courses	0
3. Specialization Requirements	
3.1 Compulsory Courses	
3.1.1 Faculty Courses	48
3.1.2 Non-Faculty Courses	18
3.2 Elective Courses	
3.2.1 Faculty Courses	12
3.2.2 Non-Faculty Courses	03
Total Cr.hrs.	131

1. UNIVERSITY REQUIREMENTS

UNIVERSITY COMPULSORY COURSES (16 Cr. Hrs.)

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
310130	Statistics in Business.	3	0	2	4	-
310100	Information Technology Fundamental	2	0	2	3	-
500110	Islamic Studies	3	1	0	3	-
500120	Arabic Language	3	0	0	3	-
600101	English I	3	0	0	3	-
111000	Orientation	0	0	0	0	-

UNIVERSITY ELECTIVE COURSES (9 Cr. Hrs.)

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite	Remarks
110109	Mathematics I	3	2	0	3	-	Required
514140	UAE Society	3	0	0	3	-	Required
600102	English II	3	0	0	3	600101	Required

2. FACULTY REQUIREMENTS

FACULTY COMPULSORY COURSES (25 Cr. Hrs.)

Course No.	Course Title	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
310112	Programming I	2	2	2	3	310100
310210	UNIX	0	0	2	1	310100
310211	Programming II	2	2	2	3	310112
311223	Data Structures & Algorithms	3	0	0	3	310211
311284	Technical Report Writing	3	0	0	3	600102
311335	Software Engineering	3	0	0	3	311331
311451	Operating Systems	3	0	0	3	310244
311462	Data Communication & Computer Networks I	3	0	0	3	60 Cr.hrs.
311471	Artificial Intelligence	2	0	2	3	80 Cr.hrs.



3. SPECIALIZATION REQUIREMENTS

Specialization Requirements Faculty Courses (48 Cr. hrs.)

Course No.	Course Title	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
310102	Information Technology Applications	2	0	2	3	310100
310202	Information Technology in Business	2	0	2	3	310102
310244	Computer Organization & Assembly Language	2	0	2	3	310211
310300	Training (Information Systems)	-	-	-	3	60 Cr.hrs.
310431	Project I	1	0	4	3	100 Cr.hrs.
310432	Project II	1	0	4	3	310431
310445	Selected Topics in Programming Languages	2	0	2	3	310211
310460	Network Administration	2	0	2	3	311462
310464	Decision Support Systems	2	0	2	3	311323
311321	Computer Graphics	2	0	2	3	310211
311323	Operational Research	3	0	0	3	310130, 120109
311331	System Analysis & Design	3	0	0	3	310211
311332	Database Management Systems	2	0	2	3	311223
311423	Object Oriented Programming	2	0	2	3	311223
311460	Multimedia	2	0	2	3	60 Cr.h.
311463	Database Design & Implementation	2	0	2	3	311332

Specialization Requirements - Non-Faculty Courses (18 Cr. Hrs.)

Course No.	Course Title	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
120109	Mathematics II	3	2	0	3	110109
400291	Introduction to Management	3	0	0	3	-
400292	Principles of Accounting	3	0	0	3	-
400393	Microeconomics	3	0	0	3	-
400396	Fundamentals of Finance	3	0	0	3	400292
400408	Business Communications	3	0	0	3	600102, 400291

Specialization Electives - Faculty Courses (12 Cr. Hrs.)

Course No.	Course Title	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
310131	Statistics Lab	0	0	2	1	130130 Co-prerequisite
310434	Computers and Society	3	0	0	3	60 Cr.hrs.
310450	Selected Topics in Computer Information Systems	2	0	2	3	60 Cr.hrs.
310465	EDP Auditing	3	0	0	3	60 Cr.hrs.
310466	Computer Security	3	0	0	3	311462
311422	Organization of Programming Languages	3	0	0	3	311223
311435	Computer Human Interaction	3	0	0	3	60 Cr.hrs.
311442	Design & Analysis of Algorithms	3	0	0	3	311223
311453	Parallel Processing	2	0	2	3	60 Cr.hrs.
311464	Data Comm. & Computer Networks II	2	0	2	3	311462
311472	Compiler Theory & design	3	0	0	3	310244, 311223
311473	Topics in Simulation	2	0	2	3	45 Cr.hrs.
311475	Expert Systems & Applications	2	0	2	3	311471
311476	Natural Language Processing	2	0	2	3	311471
311485	Computational Graph Theory	3	0	0	3	311221

Note: a student may take one elective from the computer science study plans.

Specialization Electives - Non-Faculty Courses (3 Cr. Hrs.)

Course No.	Course Title	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
400394	Intermediate Accounting	3	0	0	3	400292
400395	Principles of Marketing	3	0	0	3	400291
410611	Management of Small Business	3	0	0	3	400291
410706	Strategic Management	3	0	0	3	400291

STUDENT PLAN FOR THE B.Sc. DEGREE IN INFORMATION SYSTEMS

FIRST SEMESTER

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
110109	Mathematics I	3	2	0	3	-
310100	Information Technology Fundamental	2	0	2	3	-
500110	Islamic Studies	3	1	0	3	-
500120	Arabic Language	3	0	0	3	-
600101	English I	3	0	0	3	-
Total		14	2	2	15	

SECOND SEMESTER

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
120109	Mathematics II	3	2	0	3	110109
310102	Information Technology Applications	2	0	2	3	310100
310112	Programming I	2	2	2	3	310100
310210	UNIX	0	0	2	1	310100
400291	Introduction to Management	3	0	0	3	-
600102	English II	3	0	0	3	600101
Total		13	4	6	16	

THIRD SEMESTER

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
310130	Statistics in Business	3	0	2	4	-
310202	Information Technology in Business	2	0	2	3	310102
310211	Programming II	2	2	2	3	310112
400292	Principles of Accounting	3	0	0	3	-
400393	Microeconomics	3	0	0	3	-
Total		13	2	6	16	

FOURTH SEMESTER

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
310244	Computer Organization & Assembly Language	2	0	2	3	310211
311223	Data Structures & Algorithms	3	0	0	3	310211
311284	Technical Report Writing	3	0	0	3	600102
311323	Operational Research	3	0	0	3	310130, 120109
514140	UAE Society	3	0	0	3	-
Total		14	0	2	15	

Summer session: Industrial training for six weeks (1.5 Cr.hrs.)

FIFTH SEMESTER

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
311321	Computer Graphics	2	0	2	3	310211
311331	System Analysis & Design	3	0	0	3	310211
311423	Object-Oriented Programming	2	0	2	3	311223
400396	Fundamentals of Finance	3	0	0	3	400291
400408	Business Communications	3	0	0	3	600102, 400291
Total		13	0	4	15	

SIXTH SEMESTER

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
310445	Selected Topics in Programming Languages	2	0	2	3	310211
310464	Decision Support Systems	2	0	2	3	311323
311332	Database Management Systems	2	0	2	3	311223
311335	Software Engineering	3	0	0	3	311331
311462	Data Communication & Computer Networks I	3	0	0	3	60 Cr.h.
Total		12	0	6	15	

Summer session: Industrial training (for six weeks) (1.5 Cr.h.)

SEVENTH SEMESTER

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
310431	Project I	1	0	4	3	100 Cr.h.
311451	Operating Systems	3	0	0	3	310244
311463	Database Design & Implementation	2	0	2	3	311332
311471	Artificial Intelligence	2	0	2	3	80 Cr.h.
xxxxxx	Management Elective	3	0	0	3	xxxxxx
xxxxxx	I.S. Elective I	x	0	x	3	xxxxxx
Total				18		

EIGHTH SEMESTER

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
310432	Project II	1	0	4	3	310430
311460	Multimedia	2	0	2	3	60 Cr.hrs.
310460	Network Administration	2	0	2	3	311462
xxxxxx	I.S. Elective II	x	0	x	3	xxxxxx
xxxxxx	I.S. Elective III	x	0	x	3	xxxxxx
xxxxxx	I.S. Elective IV	x	0	x	3	xxxxxx
Total					18	

The Minimum number of credits required for the Bachelor in Information Systems is 128 Cr.hrs.

In addition, the student must complete a 12 week training period (3 Cr.hrs.)

DIPLOMA IN INFORMATION TECHNOLOGY

The Diploma in Information Technology at Ajman University of Science & Technology Network (AUSTN) is normally a 2-year course. Students are offered a wide range of subjects throughout this period. This degree is accredited by the Ministry of Higher Education.

Mission

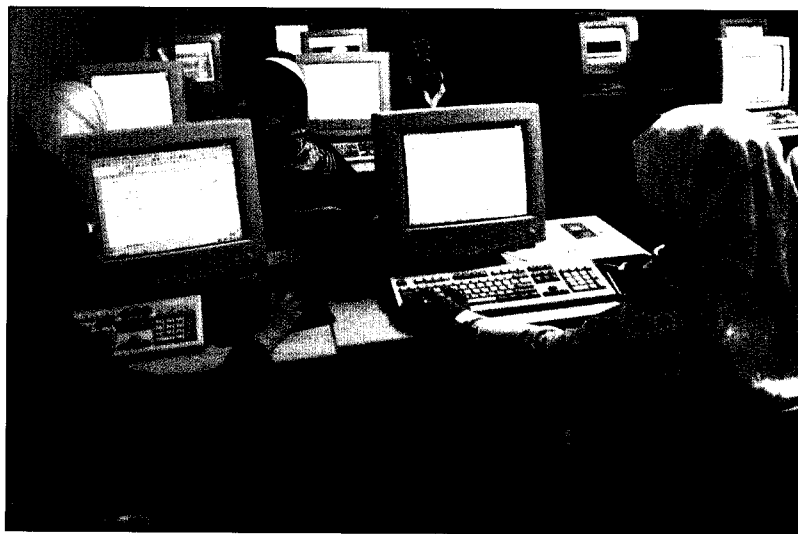
- * To enable students to obtain a semi-professional qualification in the field of computing to meet the challenges and opportunities presented by advances in information technology and fulfill increasing local market demand.
- * To develop basic skills and knowledge in computing, information processing, business practice and communications, and to develop specialized knowledge and skills in the practical application of information technology.

Objectives

- * Provide students with the necessary techniques and skills required to analyze software requirements, design solutions, and implement software.
- * To provide the student with an opportunity to develop technical knowledge in areas such as networking, database technology, e-commerce, communications and other related disciplines.

Admission Requirements

The normal entry requirements for applicants is the U.A.E secondary school certificate or an equivalent qualification (all sections) with average grade of (60% in the scientific section and 65% in the Arts section).



Career Opportunities

The course is intended to produce qualified diploma holders who are competent and can be employed as Analyst / Programmers in application support, training, as well as Hardware / Software sales. This course is designed in response to the needs of both local and national organizations which require staff capable of conversing fluently with accountant, marketing and production personnel, and who possess the skills required to manage their information technology requirements. It fills the ever increasing needs between specialists in computing and business.

Graduation Requirements

Students at (AUSTN) are eligible for a Diploma in Information Technology after completion of 70 credit hours, which normally takes four semesters. In addition, a student must undertake 12 weeks of industrial training in a summer session which is equivalent to 3 credit hours. The minimum cumulative grade point average for graduation is 2.0.

PLAN FOR DIPLOMA IN INFORMATION SYSTEMS

The Diploma in Information Technology requires the completion of 70 credit hours distributed according to the following plan:

Type of Courses	Credit/hours
1. University Requirements	
1.1 Compulsory Courses	16
1.2 Elective Courses	09
2. Faculty Requirements	
2.1 Compulsory Courses	0
2.2 Elective Courses	0
3. Specialization Requirements	
3.1 Compulsory Courses	
3.1.1 Faculty Courses	36
3.1.2 Non-Faculty Courses	03
3.2 Elective Courses	
3.2.1 Faculty Courses	03
3.2.2 Non-Faculty Courses	03
Total Cr.hrs.	70

1. UNIVERSITY REQUIREMENTS

UNIVERSITY COMPULSORY COURSES (16 Cr. Hrs.)

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
310130	Statistics in Business	3	0	2	4	-
310100	Information Technology Fundamental	2	0	2	3	-
500110	Islamic Studies	3	1	0	3	-
500120	Arabic Language	3	0	0	3	-
600101	English I	3	0	0	3	-
111000	Orientation	0	0	0	0	-

UNIVERSITY ELECTIVE COURSES (9 Cr. Hrs.)

Course Code	Course Name	Theo	Tut	Lab	Cr.Hrs.	Prerequisite	Remarks
110109	Mathematics I	3	2	0	3	-	Required
514140	UAE Society	3	0	0	3	-	Required
600102	English II	3	0	0	3	600101	Required

2. SPECIALIZATION REQUIREMENTS

Specialization Requirements Faculty Courses (36 Cr. Hrs.)

Course No.	Course Title	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
300300	Training (I.T. Diploma)	-	-	-	3	45 Cr.hrs.
300431	I.T. Diploma Project	1	0	4	3	45 Cr.hrs.
310102	Information Technology Applications	2	0	2	3	310100
310112	Programming I	2	2	2	3	310100
310202	Information Technology in Business	2	0	2	3	310102
310211	Programming II	2	2	2	3	310112
311223	Data Structures & Algorithms	3	0	0	3	310112
311331	System Analysis & Design	3	0	0	3	310112
311332	Database Management Systems	2	0	2	3	310112
311423	Object-Oriented Programming	2	0	2	3	310211
311462	Data Communication & Computer Networks I	3	0	0	3	45 Cr.hrs.
311463	Database Design & Implementation	2	0	2	3	311332

Specialization Requirements - Non-Faculty Courses (3 Cr. Hrs.)

Course No.	Course Title	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
400292	Principles of Accounting	3	0	0	3	-



Specialization Electives Faculty Courses (3 Cr. Hrs.)

Course No.	Course Title	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
310231	File Organization and Processing	2	0	2	3	311223
310310	Unix Programming	2	0	2	3	310211
310434	Computers and Society	3	0	0	3	45 Cr.h.
310450	Selected Topics in Computer Information Systems	2	0	2	3	45 Cr.h.
310460	Network Administration	2	0	2	3	311462, 45 Cr.H.
311321	Computer Graphics	2	0	2	3	310211
311335	Software Engineering	3	0	0	3	311331
311435	Computer Human Interaction	3	0	0	3	45 Cr.h.

Note: a student may take one elective from the computer science or information systems study plans.

Specialization Electives - Non-Faculty Courses (3 Cr. Hrs.)

Course No.	Course Title	Theo	Tut	Lab	Cr.Hrs.	Prerequisite
400291	Introduction to Management	3	0	0	3	-
400394	Intermediate Accounting	3	0	0	3	400292
400396	Fundamentals of Finance	3	0	0	3	400292
400395	Principles of Marketing	3	0	0	3	400291
400408	Business Communication	3	0	0	3	600102, 400291



STUDENT PLAN FOR THE DIPLOMA IN INFORMATION TECHNOLOGY

FIRST SEMESTER

Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
110109	Mathematics I	3	2	0	3	-
310100	Information Technology Fundamentals	2	0	2	3	-
400292	Principles of Accounting	3	0	0	3	-
500110	Islamic Studies	3	1	0	3	-
514140	UAE Society	3	0	0	3	-
600101	English I	3	0	0	3	-
Total		17	3	2	18	

SECOND SEMESTER

Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
310102	Information Technology Applications	2	0	2	3	310100
310112	Programming I	2	2	2	3	310100
310130	Statistics in Business	3	0	2	4	-
500120	Arabic Language	3	0	0	3	-
600102	English II	3	0	0	3	600101
xxxxxx	Management Diploma Elective I	3	0	0	3	xxxxxx
Total		16	2	6	19	

THIRD SEMESTER

Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
310202	Information Technology in Business	2	0	2	3	310102
310211	Programming II	2	2	2	3	310112
311223	Data Structures & Algorithms	3	0	0	3	310112
311331	System Analysis & Design	3	0	0	3	310112
311332	Database Management Systems	2	0	2	3	310112
Total		12	2	6	15	-

FOURTH SEMESTER

Course Code	Course Name	Lec	Tut	Lab	Cr.Hrs.	Prerequisite
300431	I.T. Diploma Project	1	0	4	3	45 Cr.hrs.
311423	Object-Oriented Programming	2	0	2	3	310211
311462	Data Communication & Computer Networks I	3	0	0	3	45 Cr.hrs.
311463	Database Design & Implementation	2	0	2	3	311332
xxxxxx	Information Technology Elective	x	0	x	3	xxxxxx
Total					15	

SUMMER SESSION: Industrial Training (2 weeks (3 Cr. hrs.))

The minimum number of Credits required for the Diploma in Information Technology is 67 Cr.hrs. In addition, the student must complete a 12-week training period (3 Cr.hrs.).

COURSES DESCRIPTION

UNIVERSITY REQUIREMENTS

a. Compulsory Courses

130130 STATISTICS

311101 INTRODUCTION TO COMPUTER SCIENCE

500110 ISLAMIC STUDIES

500120 ARABIC LANGUAGE

600101 ENGLISH I

b. Elective Course:

110109 MATHEMATICS I (INF. SYS. & IT DIPLOMA)

110100 MATHEMATICS I (COMPUTER ENG.)

110110 MATHEMATICS I

150150 SCIENTIFIC PIONEERING

150151 HISTORY OF SCIENCE IN ISLAM

500130 GENERAL PSYCHOLOGY

514330 RESEARCH METHODOLOGY

600102 ENGLISH II

For course description of above courses, see University requirements.

FACULTY REQUIREMENTS

111122 MATHEMATICS II (COMPUTER ENG.)

111223 MATHEMATICS III

112224 MATHEMATICS IV

120109 MATHEMATICS II (INF. SYSTEMS)

120110 MATHEMATICS II (COMPUTER ENG.)

120111 PHYSICS I (COMPUTER ENG.)

120112 PHYSICS II (COMPUTER SCIENTISTS)

121131 PHYSICS I (COMPUTER ENG.)

121132 PHYSICS II (COMPUTER ENG.)

700126 GENERAL CHEMISTRY

For course description of above courses, see courses offered by the Faculty of Education and Basic Science to other faculties.

201102 ENGINEERING GRAPHICS

211415 DIGITAL INTEGRATED CIRCUITS

211516 CIRCUIT DESIGN WITH VLSI

212523 DIGITAL COMMUNICATIONS

212531 DIGITAL SIGNAL PROCESSING

214342 CONTROL SYSTEMS

214441 SIGNALS AND SYSTEMS

214443 INDUSTRIAL CONTROL SYSTEMS

214546 INTELLIGENT SYSTEMS & ROBOTICS

215201 CIRCUIT ANALYSIS I

For course description of above courses, see Faculty of Engineering.

300431

IT DIPLOMA PROJECT

The aim of the course is to give students the opportunity to work in a guided, but independent, fashion to investigate a problem by making use of information technology knowledge, techniques, and methodologies acquired in the course to provide a suitable solution. The course also aims to enhance communication skills, both oral and written. Students may either select a project from the list of project proposals put forward by the lecturing staff or alternatively may propose their own projects. Projects usually involve an information system design or web-site design and development.

310100

INFORMATION TECHNOLOGY FUNDAMENTALS

The Course aims to provide a general description of the way a computer system works and also demonstrates how the computer can be used as an effective tool in every day use. The course also aims at familiarizing students with aspects of information technology and its applications in a wide variety of fields. The course gives descriptions regarding computer hardware, software, application packages, networks, graphic design, multimedia, internet access, information retrieval, and issues concerning computer ethics and society.

310102

INFORMATION TECHNOLOGY APPLICATIONS

Students will gain sufficient understanding of a number of systems including document layout, presentation, WEB application, and advance spreadsheet.

Typing Skills: document layout and production : presentation graphics, WEB application advance spread sheets etc.

310112

PROGRAMMING I

This subject develops skills for problem solving and specification, problem-solving strategies, structured decomposition, variables and data types, simple input/output, conditional and iterative control structures, sub algorithms, and arrays.

310130

STATISTICS IN BUSINESS

Computer and descriptive statistics, probability concepts and models, random variables, discrete probability models, cases in probability models, classical inference, classical estimation, hypothesis testing, forecasting, case studies, decision analysis.

310131

STATISTICS LAB

This lab course is designed for those students who had taken or are taking statistics 130130. The Course is an implementation of methods and concepts in the statistics course 130130.

310202

INFORMATION TECHNOLOGY IN BUSINESS

To provide the students with an understanding of the current issues in the information technology in business. Information technology's relationship to business competition and strategy, the business value of information systems, the use of computer systems to achieve strategic advantage, to support managerial decision - making, to process organizational transactions, to achieve operational control, and to augment

personal communications, information resource management, and the organizational, social, legal, and the ethical, issues from information systems.

310210

UNIX

Introduction to Unix, editing Unix commands, Unix shell, Unix utilities.

310211

PROGRAMMING II

Overview of fundamental programming constructs, functions, strings, pointers, user defined data structures, files, recursion, and classes.

310231

FILE ORGANIZATION AND PROCESSING

Sequential and direct file organizations, file processing techniques, external sorting, data storage and manipulation, file processing computer languages, file system implementation.

310244

COMP. ORGANIZATION & ASSEMBLY LANGUAGE

Architecture of modern computers, assembly language requirements

and instructions, interrupts, screen and keyboard processing, string processing, external procedures and macros.

310310

UNIX Programming

Introduction to systems programming using the UNIX operating system. Includes shells and shell-script programming, use of systems calls in C/C++ programs, process control, interposes communication, and basic system administration.

310431

PROJECT I - INFORMATION SYSTEMS

The aim of the course is to give students the opportunity to work in a guided but independent fashion to investigate a problem by making use of information technology knowledge, techniques, and methodologies acquired in the course to provide a suitable solution. The course also aims to enhance communication skills, both oral and written. Students may either select a project from the list of project proposals put forward by the lecturing staff or alternatively may propose their own projects.

310432

PROJECT II - INFORMATION SYSTEMS

The course aims to integrate all knowledge and skills learned in the major in a team work environment and enhance the programming experience of students. The project involves the definition of a real-world business or industrial problem and the design, computer implementation, documentation and presentation of a proposed solution to the problem. Information systems design and implementation, e-commerce application, Web sites with online database access, and software engineering issues are some of the topics that students can select from for their projects. The student who has completed this course will have gained an understanding of what is involved in developing a software business application.

310434

COMPUTERS AND SOCIETY

This course provides introduction to human and social contexts of computers. This course is an introduction to social, legal, ethical, and economic issues related to computing. As a lecture and discussion course, a broad range of topics will include the use of computers in society, risks, privacy, computer crime, hackers and viruses, intellectual property violation, and legislation. Students will select a topic for research throughout the semester.

310445

SELECTED TOPICS IN PROGRAMMING LANGUAGES

Students are taught a programming language different from the ones

they have already taken. Different programming languages will be offered in different semesters.

310450

SELECTED TOPICS IN COMPUTER INFO. SYSTEMS

This course aims at introducing new developments in information systems not specifically covered in the curriculum and in which the instructor has developed interest and proficiency. The intention is to provide a rapid response to current trends and to widen students' knowledge in the information system field. Course content may change with departmental approval.

310460

NETWORK ADMINISTRATION

The student is introduced to the concepts and practices of network administration, issues of TCP/IP networking, hardware configuration, TCP/IP configuration, point-to-point protocol, routing configuration, network server configuration, managing UUCP, electronic mail, and network security.

310464

DECISION SUPPORT SYSTEMS

The course covers the issues of providing the right information critical to effective management. A variety of models and computer-based tools to assist management and decision-making are studied. User interfaces, forecasting, simulation, group DSS and intelligent DSS are examined.

310466

COMPUTER SYSTEMS SECURITY

The student should develop an understanding of the mechanisms required in the design of secure system. The mechanisms required in the design of secure systems, study of formal models of secure systems. Control of site and system access : protection and maintenance of data integrity : environmental/facility consideration such as power, and climatologically factors : assessment of intrusion detection : theft, espionage, sabotage, and incompetence : backups and alternative systems.

311102

PC APPLICATIONS

Introduction to PC software. Topics will include PC operating system, editors, word processing, spreadsheets, and Dbase software. The course will focus on the interdisciplinary application of computers (Lectures + lab).

311221

DISCRETE STRUCTURES

Introduction to set theory; propositional calculus; predicate calculus; induction; functions; and relations, finite state automata, counting, graphs and trees.

311223

DATA STRUCTURES & ALGORITHMS

Efficiency of algorithms; data types and abstract data types; data structures such as arrays, stacks, queues, linked lists, trees, graphs, sorting, searching, and files.

311224

NUMERICAL ANALYSIS

Polynomial interpolation, least squares approximation by polynomials, orthogonal polynomials, economization of power series, numerical & numerical integration including quadrature, complex quadrature formula, and Romberg integration. Numerical methods for initial value problems including Taylor series methods, Runge-Kutta methods, multi-step methods, & extrapolation methods. The course makes extensive use of computers (Lectures + Lab).

311242

DIGITAL LOGIC DESIGN

Combination logic, functional decomposition, circuit analysis and synthesis, logic arrays, sequential circuit analysis and memory devices.

311244

MICRO-COMPUTER SYSTEMS & ASSEMBLY LANGUAGE

The organization and architecture of modern computer, assembly language requirements, program logic and control, arithmetic processing, interrupts, screen and keyboard processing, string processing, and external procedures and macros.

311248

MICRO-PROCESSOR SYSTEMS & DESIGN

Students are introduced to the general description of a microprocessor system MPU (MC 6800, Intel 8086, Intel 80386/486...), RAM's, ROM's, Signal's description, address decoding, memory configurations, DRAM interfacing, buffering, interface adapters, bus standards and controllers, multiprocessor configuration, PIC's applications: A/D conversion, overview of advanced microprocessor features (memory management, protection mechanisms.)

311284

TECHNICAL REPORT WRITING

This course will develop an awareness of the writing process, needs of the writer, and the task appropriate. It will develop the students skills to the extent that they can write: a well structured paragraph, variety of text types, a summary of a given text, and a whole text to an acceptable level of accuracy. It also aims to familiarize the student with the qualities of good writing by exposing them to a range of texts and text types.

311311

COMPUTATIONAL MATHEMATICS

System of linear equations, Gaussain elimination method, homogeneous systems, vector spaces, linear transformations, differential equations, and conic sections.

311319

INTRO. TO FORMAL LANGUAGES & AUTOMATA

Theoretical concepts of computing, deterministic and non-deterministic, regular languages, pushdown automata, context free grammar, Turing machine and Chomsky hierarchy, and NP problems.

311321

COMPUTER GRAPHICS

Graphics hardware and software. The representation, transformations, clipping and viewing of two and three-dimensional objects. Graphical user interfaces, Animation.

311323

OPERATIONAL RESEARCH

Linear mathematical models, graphical solution of LP models, simplex method, post-optimality analysis, transportation model, statistical decision making, network analysis, and non-linear programming.

311331

SYSTEM ANALYSIS & DESIGN

Phases of systems development and the tools of the analyst used in planning, analysis, specification, and implementation of computer-based systems. Other topics include hardware, form design, documentation standards and interaction with users.

311332

DATABASE MANAGEMENT SYSTEMS

Introduction to database concepts including data independence, relationships, logical and physical organizations, and schema. Rela-

tional, hierarchical, and network models of data and their implementation. Relational algebra and SQL. Functional dependencies and normalization.

311335

SOFTWARE ENGINEERING

Software engineering life cycle, requirement analysis, specification, functional oriented design, object oriented design, user interfaces, testing, reliability, verification, and software maintenance.

311342

COMPUTER ARCHITECTURE

Basic computer components and their function, internal and external memory, cache memory, interrupts mechanisms, central processing unit, control unit, I/O system, pipelining, and micro-programmed control.

311352

SYSTEMS PROGRAMMING

Design and implementation of systems programs: text editors, file utilities, monitors, assemblers, relocating linking loaders, I/O handlers and schedulers. (Lectures + Lab).

311422

ORGANIZATION OF PROGRAMMING LANGUAGES

Global properties of programming languages, data types, sequence control, subprogram control, encapsulation, inheritance, object-based languages, functional languages, and logic languages.

311423

OBJECT ORIENTED PROGRAMMING

A new approach to design robust maintainable software using the abstraction method approach to enable students to think in terms of objects which encapsulate all required information. Object Classes, instances, inheritance, and usage of graphical representations such as hierarchy, collaboration and Venn diagram.

311431

PROJECT I - COMPUTER SCIENCE

The aim of the course is to give students the opportunity to work in a guided but independent fashion to investigate a problem by making use of computer science knowledge, techniques, and methodologies acquired in the course to provide a suitable solution. The course also aims to enhance communication skills, both oral and written. Students may either select a project from the list of project proposals put forward by the lecturing staff or alternatively may propose their own projects.

311432

PROJECT II - COMPUTER SCIENCE

The course aims to integrate all the knowledge and skills learned in the major in a team work environment and enhance the programming experience of students. The project involves the definition of a real-world business or industrial problem and the design, computer implementation, documentation and presentation of a proposed solution to the problem. Programming language implementation, database design, simulation, network programming, expert systems, programming tools and computer graphics are some of the topics that students can select from for their projects. The student who has completed this course will have gained an understanding of what is involved in developing a relatively large software project.

311442

DESIGN AND ANALYSIS OF ALGORITHMS

Algorithm analysis and complexity, divide and conquer strategy, greedy algorithms, branch and bound, backtracking, dynamic programming, P and NP algorithm classes.

311448

THEORY OF COMPUTATION

Formal systems of computation including post productions, Turing machines and recursive functions. Recursive and recursively enumerable sets. Undecidability results of computation.

311450

SELECTED TOPICS IN COMPUTER SCIENCE

This course aims at introducing new developments in computer science not specifically covered in the curriculum and in which the instructor has developed interest and proficiency. The intention is to provide a rapid response to current trends and to widen students' knowledge in computer science field. Course content may change with departmental approval.

311451

OPERATING SYSTEMS

Fundamental concepts and an introduction to different types of operating systems, process communication, memory management, process scheduling, I/O system, device drivers and spooling, file management, security, and a case-study.

311453

PARALLEL PROCESSING

Basic principles of parallel processing in contrast to the conventional uni-processing model of Von Neumann architectures. Various

forms of architectural and algorithmic parallelism are presented. Factors affecting performance of parallel processing systems are discussed.

311460

MULTIMEDIA

Definition of multimedia, applications, advantages, development platforms, delivery platforms, magnetic and optical storage systems, enabling technologies (Photo CD, CD, ROM, Phillips CDI, High Density CD, ROM) audio-editing software packages, animation, compression and decompression techniques, virtual reality, and multimedia production.

311462

COMMUNICATIONS & COMPUTER NETWORKS I

Introduction to data communication concepts and facilities from the software and hardware points of view with emphasis on protocol and interface specifications, in particular those adhering to the ISO-OSI reference model. Data communication in local area networks (protocols, PSS, security, compression).

311463

DATABASE DESIGN & IMPLEMENTATION

The objective of this course is to provide the student with the skills and knowledge required for the design and implementation of database systems. Topics include, relational model, semantic model, hierarchical model, network model, query optimization, database security and protection, design and specification of distributed database systems.

311464

DATA COMM. & COMPUTER NETWORKS II

Description and operation of the 7 layers of the ISO Model. The data link layer, error detection and correction, elementary data link protocols, sliding window protocol, routing algorithms, network layer design issue, connection management, session layer design issue, remote procedural call, the presentation layer, abstract syntax notation, the application layer, file transfer, access and management, electronic mail.

311465

EDP AUDITING

The student should learn about the theory and practice of Auditing EDP systems.

The multi-discipline course covering the theory and practice of auditing systems. The course consists of four major sections: framework, concerns and objectives, performing audits, and management

perspectives. Students use the case study method and microcomputers in connection with the case assignments.

311471

ARTIFICIAL INTELLIGENCE

Intelligent systems, logic, Prolog programming, search techniques, constraints satisfaction, knowledge representation schemes (predicate logic, frames, production rules), knowledge manipulation, augmented transition networks and machine translation, other areas such as neural networks.

311472

COMPILER THEORY & DESIGN

Compiler structure, syntax analysis, lexical analysis, semantic analysis, error recovery, code generation, optimization, design and implementation of a simple compiler.

311473

TOPICS IN SIMULATION

A study of simulation languages and simulation techniques for solving many types of research problems from management, engineering and science. Simulation event and process approaches, modeling and analysis, application examples, output analysis and interval confidence, variance reduction techniques, and Petri networks.

311475

EXPERT SYSTEMS & APPLICATION

The basic concepts & architecture of expert systems, knowledge representation, rule learning, rule based reasoning using forward and backward chaining, agents, multi-agents systems, computer vision, and robotics.

311476

NATURAL LANGUAGE PROCESSING

Natural language representation, deterministic and stochastic grammars, parsing algorithms, thesaurus, morphological analysis, syntactic and semantic analysis, Transformational grammar, augmented transition networks, machine translation, semantic networks, and applications.

311478

FAULT TOLERANT COMPUTING

Computer systems resilient to hardware and software fault, recovery in time and space, roll back mechanism, modular redundancy, replicas, alternatives, forgers, joiners, handling exceptions, and case studies.

311485

COMPUTATIONAL GRAPH THEORY

Connectivity graph searching, minimum spanning trees, shortest paths, maximum flow problem, the minimum cost flow problem, graph colouring domination and independent set with applications, planarity, Eulerian and Hamiltonian graph with applications.

312302

ELECTRONICS I

The student is made familiar with transistor basing and the study of power amplifiers. Diode theory, PN junction, diode applications, transistor basing (base bias, emitter feedback, collector feedback). CE amplifiers : coupling and bypass capacitors, grounded emitter amplifier, AC model, cascade of stages, CC and CB amplifier : CC amplifier, emitter follower AC mode, Arlington amplifier, common base amplifier, Hybrid parameters : Z, Y and h parameters : analysis formulas : CE, CC and CB analysis, Class A and B Power amplifiers. Class C and other amplifiers, JFETS, MOSFETS.

312303

ELECTRONICS II

This course introduces the operational amplifier theory in detail and familiarizes the student with their use. Operational Amplifiers Theory : differential amplifier - DC and AC analysis - Characteristics. Negative feedback : inverting and non-inverting voltage feedback - inverting and non-inverting current feedback. Linear operational amplifier circuits : inverting and non-inverting voltage amplifiers - opamp inverting circuits - summing amplifiers - voltage controlled current sources Non-Linear operational amplifier circuits : comparators - Schmidt trigger - integrator - differentiate. Oscillators: RC oscillators, Colpitts oscillator, LC oscillators - quartz crystals, 555 timer, Thyristors - Regulated power suppliers.

312305

ELECTRICAL & ELECTRONIC MEASUREMENTS & INST.

This course concerns the study of a wide range of electrical and electronic measurement devices. It presents their principles of operation for a better understanding of the quality of their readings. Measurement and error - Units and standards - DC indicating instruments - suspension galvanometer, DC voltmeter, sensitivity, series and shunt type Ohmmeters, millimeters, calibration of DC instruments - AC indicating instruments - Bridges and applications - Electronic instruments for measurements: differential voltmeters, digital voltmeters - oscilloscopes: principles, CRT circuits, vertical deflection systems, multiple trace, horizontal deflection system, probes, oscilloscopes techniques - signal generation - frequency meters.

312322

MATHEMATICS FOR ENGINEERS

Vector spaces, subspaces, linear independence, norms, matrix algebra, linear equations, Eigen values and vectors, Approximations and algorithms interpolations, Functional approximations: least mean squares and minimum error techniques, Logic.

312442

COMPUTER HARDWARE DESIGN

The basic objective is to teach the student how to design complex digital systems. The student will be involved with a hardware design language to facilitate the description that will lead him to design completely control units. Organization of a computer - Design basics : Register transfers, busing, control sequencing, control unit realization, conditional transfers. Hardware programming languages : Operators, programming, AHPL statement, memory, asynchronous models - use of AHPL in hardware programs for the description of system organization : register transfers, instruction execution in the control unit, control programs, instruction implementation, addressing options, multiple cycle instructions - hardware design and realization : Multiperiod operations, conditional transfers, clock rates, ALU description and implementation - micro programming : hardwired and micro programmable control units, design of a micro programmed machine - intersystem communications : parallel operations in a computer, interacting modules, synchronization - interrupts and input/output : description and implementation of interrupt and I/O systems: Direct memory access.

312444

COMPUTER INTERFACING

This course is aimed at giving the student the ability to use a computer for the control of any process in diverse applications. Programmable Devices : PAL's and PAL's Assemblers, EPLD's FPLA's..... Bus Standards : Multibus 2, IEEE 488, ISA, VESA, I/O System, Basic interface chips : UART, PIO, PIC, DMA Controller, PIT... Device controller Chips and interfacing techniques : Floppy Disk Controller, CRT Controllers, Keyboard Controllers, printer Controllers, Data Acquisition.

312477

COMPUTER AIDED DESIGN

Introduction to Digital Circuit Simulation and verification (Event driven, simulation, parallel and concurrent simulation techniques, verification techniques, circuit representation, multi valued logic). Use of Specific Software for Circuit Design (SPIC...) Automated Test Pattern Generation (Fault modes, controllability and observability concepts in digital circuits, the D-algorithm).

312530

SELECTED TOPICS IN COMPUTER ENGINEERING

This course aims at introducing new developments in computer engineering not specifically covered in the curriculum and in which the instructor has developed interest and proficiency. The intention is to provide a rapid response to current trends and to widen students knowledge in computer engineering field. Course content may change with departmental approval.

312531

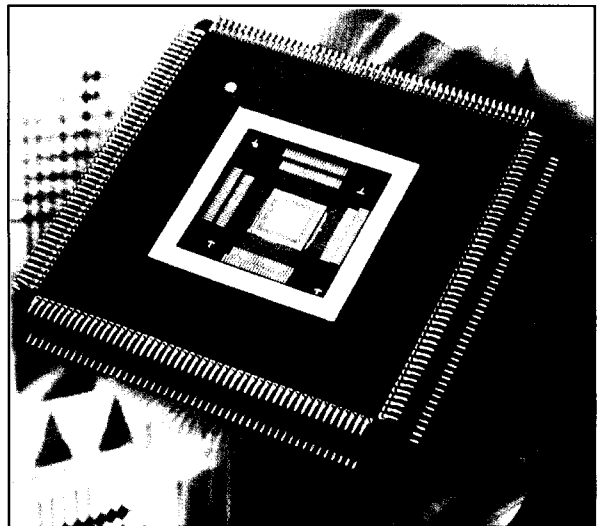
PROJECT I - COMPUTER ENGINEERING

The aim of the course is to give students the opportunity to work in a guided but independent fashion to investigate a problem by making use of computer engineering knowledge, techniques, and methodologies acquired in the course to provide a suitable solution. The course also aims to enhance communication skills, both oral and written. Students may either select a project from the list of project proposals put forward by the lecturing staff, or alternatively may propose their own projects.

312532

PROJECT II - COMPUTER ENGINEERING

The course aims to integrate all the knowledge and skills learned in the major in a team-work environment. A computer engineering project involves the definition of a hardware/software problem and the design, computer implementation, documentation and presentation



of a proposed solution to the problem. Micro-processor systems design, VLSI implementations, digital signal processing, computer control, and hardware simulations are some of the topics that students can select from for their projects.

312542

ADVANCED ARCHITECTURES AND SYSTEMS

This course will familiarize the student with the most advanced techniques used to enhance computer performance. Reduced Instruction set computers: Instruction Execution, Characteristics, Architecture, RISC pipelining, Case Studies, (Motorola 88000, MIPS R 4000). Superscalar Processing, Vector Computation, Systolic Arrays, and Hypercubes.

312552

PERFORMANCE EVALUATION OF COMPUTER SYS.

This course deals with the evaluation of computer systems performance in order to allow correct decision making and avoid waste of resources. Measurement techniques: Hardware and software tools, design of measurement experiments. Simulation techniques: Model construction and validation, design of simulation experiments. Analytic techniques: deterministic models (examples of CPU - I/O overlap and multiprogramming system...) probabilistic models (Markov and queuing models, non preemptive and preemptive single service center models). Characterization of systems inputs from the environment : formulation, construction and validation of system inputs models. Performance evaluation of alternative computer systems : detection methodologies, performance comparisons, performance evaluation of programs.

312560

DIGITAL IMAGE PROCESSING

To acquaint the student with computer image processing principles and enable him/her to create and manipulate digital images. Continuous Image Characterization and representation - digital image characterization: sampling and reconstruction, mathematical characterization, image quantization. Discrete processing: superposition and convolution, 2-D transforms (Fourier, Cosine, Hadamard, Karhunen Loeve). Image improvement: enhancement, restoration, geometrical modification. Image analysis: edge detection, segmentation...

312570

FUZZY LOGIC AND NEURAL NETWORKS

Neural networks and fuzzy systems are introduced to show how

they deal with difficulties arising from uncertainty, imprecision noise, which are associated with real-world problems(process control ...). Neural Network Theory - Activation and Signals: Activation Models: Additive neuronal dynamics, additive neuronal Feedback, Bi-directional Associative memories. Unsupervised learning: stochastic unsupervised learning, Habana Learning, Competitive Learning. Supervised Learning: The Backpropagation algorithm.Adaptive Fuzzy Systems Fuzzy sets and systems, Fuzzy Entropy Theorem, Subsethood Theorem, Fuzzy Associative Memories: Fuzzy Sector - Matrix Multiplication, Maxmin composition, Fuzzy Webb FAM's Adaptive FAM's Examples of Fuzzy and Neural Control Systems.

400291

INTRODUCTION TO MANAGEMENT

400292

PRINCIPLES OF ACCOUNTING

400393

MICROECONOMICS

400394

INTERMEDIATE ACCOUNTING

400396

FUNDAMENTALS OF FINANCE

400395

PRINCIPLES OF MARKETING

400408

BUSINESS COMMUNICATIONS

410611

MANAGEMENT OF SMALL BUSINESS

410706

STRATEGIC MANAGEMENT

For course description of above courses see Faculty of Business Administration.

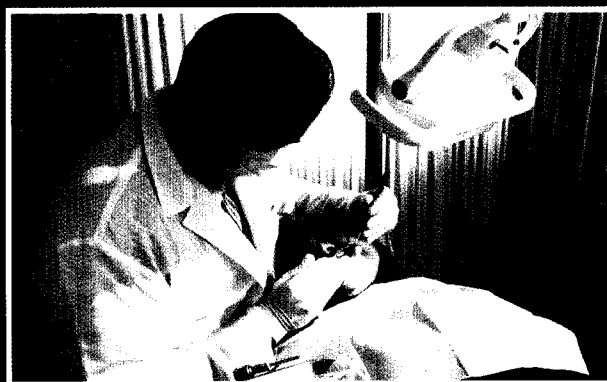
514140

UAE SOCIETY

For course description of above courses see Faculty of Education and Basic Science.

**FACULTY MEMBERS
ACADEMIC YEAR 2004-2005**

Academic Rank	No.
Professors	5
Associate Professors	7
Assistant Professors	22
Lecturers	20
Total	54
Dean	1
Deputy Deans	3
Head of Department	3



FACULTY OF DENTISTRY

E-mail : dentistry@ajman.ac.ae

TABLE OF CONTENTS

Introduction	144
Mission	144
Objectives	144
Program Offered	144
Admission & Graduation Requirements	145
Departments of the Faculty	146
D.D.S. Study Plan	147
Course Description	153
Faculty Members	160

Introduction

The Faculty of Dentistry was established at Ajman University of Science and Technology, during the academic year 1997-1998. The Faculty of Dentistry is the first Oral and Dental Health Teaching Institution in the United Arab Emirates.

The curriculum is tailored to meet the oral and dental health needs of the UAE community, focusing on the prevention of oral and dental diseases.

Careful integration of knowledge based on biomedical foundation is developed through the study program.

The curriculum has been set to promote self-learning, and various teaching and learning methods (Internet, CD-ROMs, Videos..etc) are used with emphasis on critical thinking and problem based learning, using the internet as an information resource.

Laboratory sessions using models, and simulations are part of the curriculum.

Clinical Training within the Faculty and medical / dental affiliated institutions, in different specialities, will expose the students to major oral diseases with an integral part of the medical approach.

The dental study plan has been conceived to help the student to develop and improve his/her clinical skills with sound medical background.

Mission

The mission of the Faculty of Dentistry is to contribute to the development of oral health care in the Middle East region. The prospective dentists are expected to be highly qualified to realize the vision of AUST/FOD which emphasize high quality dental care to the society. A modernized teaching and learning methodology is used according to international standards. However, they have been customized to meet the needs and values of the specific society where a new generation of dentists are bridging the gap between academic and business domains.

Objective

To educate and train competent and qualified students in order to implement a comprehensive health care program according to world-class standards.

To generate professionals with biomedical science foundation and outstanding skills to carry out preventative and therapeutic procedures.

To generate highly qualified oral physicians, capable of contributing to the improvement of oral health in the UAE.

To contribute to promoting oral health care through a continuing education program.

To initiate scientific research in the dental field with the collaboration of world-wide prestigious dental & medical institutions and companies related to dentistry.

To provide community oral health services that meet world-class standards of quality.

To contribute to reducing the high incidence of oral & dental diseases in the country, through a preventative health care community program.

Program Offered

Doctor of Dental Surgery (D.D.S.) Degree



ADMISSION REQUIREMENTS

The Faculty of Dentistry follows the policy established by Ajman University of Science & Technology, which stipulates a credit hour system based on two academic semesters of sixteen (16) weeks each.

A Secondary School Certificate, science section, or its equivalent with a Grade Point Average not less than B (80%) in the following subjects.

Biology

Physics

Chemistry

English proficiency test. (not less than 80%)

Personal interview.

Academic Standards

Due to the integrated nature of the curriculum, dental students are advised to pursue the sequence of the curriculum as detailed hereafter, after referring to his / her academic advisor, in order to ensure a smooth academic enrollment as per the pre-requisite system.

Dental students should successfully complete all the basic and medical science courses, as stated in the curriculum, to be allowed to enroll (for the pre-clinical phase).

Due to the comprehensive treatment approach, students should successfully complete all the preclinical subjects to be eligible to enroll in the clinical phase.



Graduation Requirements

Dental students will be awarded the Doctor of Dental Surgery (D.D.S.) degree after fulfilling the following requirements:

Completing the required credit hours, including the University requirement courses, with an accumulative grade point average (A.G.P.A.) not less than C, students should take, during the following semester (s), clinical subjects as suggested by the academic advisor to fulfil this graduation requirement.

Completing the required cases during the clinical phase in addition to the two months required training period.

Submitting & defending the research project before an academic committee of the Faculty.

DEPARTMENTS OF THE FACULTY

1. Department of Basic & Medical Sciences:

This department consists of:
Integrated Biological Sciences I & II
Histology & Cell Biology
Oral Histology
Anatomy Head & Neck I & II
Microbiology & Immunology
General Medicine
General Surgery & ENT
Pathology

- * Physics
- * Psychology
- ** General Chemistry
- ** Biochemistry
- ** Pharmacology

**(Course offered by the Faculty of Education & Basic Sciences)*

*** (Courses offered by the Faculty of Pharmacy & Health Sciences).*

2. Department of Restorative Dentistry:

This department consists of:
Introduction to Oral & Dental Diseases
Dental Anatomy
Biomaterials*
Occlusion*
Pre-clinical Operative Dentistry I & II
Pre-clinical Prosthodontics I & II
Pre-clinical Endodontics I & II
Four Handed Dentistry & Infection Control
Ethics*
Clinical Operative Dentistry I & II
Clinical Prosthodontics I & II.
Clinical Endodontics I & II.
Geriatric Dentistry*
Clinical Dentistry I & II*

3. Department of Growth & Development:

This department consists of:
Preventive Dentistry & Nutrition
Pre-clinical Pediatric Dentistry I & II
Pre-clinical Orthodontics.
Clinical Pediatric Dentistry I & II
Clinical Orthodontics I & II.
Applied Biostatistics

4. Department of Surgical Sciences:

This department consists of:
Oral Radiology I & II
Oral Diagnosis / Oral Medicine
Oral Pathology I & II
Pre-clinical Oral Surgery I & Pain Control
Pre-clinical Oral Surgery II & Cardiac Pulmonary Resuscitation
Pre-clinical Periodontics I & II
Clinical Oral Surgery I & II.
Clinical Periodontics I & II.
Emergency Dental Care*
Hospital Dentistry*
Lasers & Modern Technology*
Implantology*

** The different clinical departments share these subjects, as per topics related to each department.*

5. Additional Faculty Requirements:

Treatment Planning & Seminars I & II*
Practice Management*
Research Project**
Equipment Maintenance***
Research Methodology****

** Different clinical departments share these subjects, as per topics related to each department.*

*** Different departments of the faculty are involved, as per the research projects selected by students.*

**** This course is shared with the Faculty of Engineering Biomedical Department.*

***** This course is shared with the Faculty of Education & Basic Sciences, the Faculty of Languages & Translation, and the Faculty of Dentistry.*

D.D.S. Study Plan

University Requirements

Compulsory Courses

Course Code	Course Title	L/C	Lb/T	Cr.Hrs.	Pre-Req.
0500 110	Islamic Culture	3	-	3	Xxx xxx
0500 120	Arabic Language	3	-	3	Xxx xxx
0600 101	English-I	3	-	3	Xxx xxx
0311 101	Introduction To Computer	2	2	3	Xxx xxx
0130 130	Statistics	3	-	3	Xxx xxx

Elective Courses

Although elective, the student has to register for three (03) courses, after consulting his/her academic advisor, as stated in the curriculum.

Course Code	Course Title	L/C	Lb/T	Cr.Hrs.	Pre-Req.
0600 102	English-II / Dentistry	3	-	3	0600101
0500 130	Psychology / Dentistry	3	-	3	Xxx xxx
0514 330	Research Methodology / Dentistry	3	-	3	Xxx xxx
0110 110	Mathematics	3	-	3	Xxx xxx
0150 150	Scientific Pioneering & Patents	3	-	3	Xxx xxx
0150 151	History of Sciences in Islam	3	-	3	Xxx xxx



FACULTY REQUIREMENTS

First Year

First Semester

Course Code	Course Title	L/C	Lb/T	Cr.Hrs.	Pre-Req.
0130 130	Statistics	3	-	3	Xxx xxx
0311 101	Introduction To Computer	2	2	3	Xxx xxx
0600 101	English-I	3	-	3	Xxx xxx
0700 126	General Chemistry / Dentistry	2	2	3	Xxx xxx
0801 111	Integrated Biological Sciences-I	2	2	3	xxx xxx
0801 112	Histology & Cell Biology	2	2	3	xxx xxx
Total		14	8	18	

Second Semester

Course Code	Course Title	L/C	Lb/T	Cr.Hrs.	Pre-Req.
0801 122	Oral Histology	3	2	4	0801112
0500 120	Arabic Language	3	-	3	xxx xxx
0600 102	English II / Dentistry	3	-	3	0600101
0700 236	Biochemistry / Dentistry	3	2	4	0700126
0801 123	Anatomy Head & Neck - I	2	2	3	0801 111
0801 121	Integrated Biological Sciences- II	3	2	4	0801 111
Total		17	8	21	

* Two (02) Practical hours = 1 Cr.Hrs.



Second Year

First Semester

Course Code	Course Title	L/C	Lb/T	Cr.Hrs.	Pre-Req.
0120101	Physics / Dentistry	3	-	3	Xxx xxx
0500110	Islamic Culture	3	—	3	Xxx xxx
0801 214	Microbiology & Immunology	3	2	4	Xxx xxx
0801 213	Anatomy Head & Neck II	2	2	3	0801 123
0801 215	Pathology	3	1	3	8011 12
0700 239	Pharmacology-I	2	-	2	0801 121
0500130	Psychology / Dentistry	3	-	3	Xxx xxx
Total		19	5	21	

Second Semester

Course Code	Course Title	L/C	Lb/T	Cr.Hrs.	Pre-Req.
0801 226	General Medicine	4	1	4	0801 214, 0801 215
0801 227	General Surgery & ENT	2	1	2	0801 123
0802 221	Introduction to Oral & Dental Diseases	2	2	3	0801 215
0802 222	Dental Anatomy	3	2	4	0801 123
0802 223	Biomaterials	2	1	2	120101
0700 240	Pharmacology-II	2	-	2	0700 239
0804 221	Oral Radiology I	2	2	3	0801 123, 0120101
Total		17	9	20	

* Two (02) Practical hours = 1 Cr.Hrs.



Third Year

First Semester

Course Code	Course Title	L/C	Lb/T	Cr.Hrs.	Pre-Req.
0802 314	Occlusion	1	1	1	0802 222
0802 315	Pre-Clinical Operative Dentistry I	2	3	3	0802 222 & 3
0802 316	Pre-Clinical Prosthodontics I	2	4	3	0802 222 & 3
0802 317	Pre-Clinical Endodontics I	1	3	2	0802 222 & 3
0802 318	Four Handed Dentistry & Infection Control	2	-	2	0801 214
0803 311	Preventive Dentistry & Nutrition	3	2	3	0802 221 & 0801 226
0803 312	Pre-Clinical Pediatric Dentistry I	2	-	2	0802 221
0804 312	Pre-Clinical Periodontics I	1	1	1	0801 122
0804 313	Pre-Clinical Oral Surgery I & Pain Control	3	2	3	0801 214, 0700240 & 0500130
Total		17	16	20	

Second Semester

Course Code	Course Title	L/C	Lb/T	Cr.Hrs.	Pre-Req.
0802 325	Pre-Clinical Operative Dentistry II	2	3	3	0802 315
0802 326	Pre-Clinical Prosthodontics II	2	4	3	0802 316
0802 327	Pre-Clinical Endodontics II	1	3	2	0802 317
0803 322	Pre-Clinical Pediatric Dentistry II	1	3	2	0803 312
0803 323	Pre-Clinical Orthodontics	1	3	2	0801 122 & 0802 222
0804 321	Oral Radiology II	1	2	1	0804 221
0804 322	Pre-Clinical Periodontics II	1	3	2	0804 312
0804 323	Pre-Clinical Oral Surgery II & CPR	2	2	2	0804 313 & 0801 226
0804 324	Oral Pathology-I	2	2	2	0801 215 & 0802 221
Total		13	25	19	

* Three (03) Pre-clinical Training Hours=1 Cr.Hrs.

Fourth Year

First Semester

Course Code	Course Title	L/C	Lb/T	Cr.Hrs.	Pre-Req.
0802 415	Clinical Operative Dentistry I	1	4	2	
0802 416	Clinical Prosthodontics I	1	4	2	All
0802 417	Clinical Endodontics I	1	4	2	
0803 412	Clinical Pediatric Dentistry I	1	4	2	Preclinical
0803 413	Clinical Orthodontics I	1	4	2	
0804 410	Oral Diagnosis / Oral Medicine	2	4	3	
0804 412	Clinical Periodontics I	1	4	2	Subjects
0804 413	Clinical Oral Surgery I	1	4	2	
0804 414	Oral Pathology-II	2	2	2	0804 324
Total		11	34	19	

Second Semester

Course Code	Course Title	L/C	Lb/T	Cr.Hrs.	Pre-Req.
0514330	Research Methodology / Dentistry	3	—	3	0130 130
0802 425	Clinical Operative Dentistry II	1	4	2	0802 415
0802 426	Clinical Prosthodontics II	1	4	2	0802 416
0802 427	Clinical Endodontics II	1	4	2	0802 417
0803 422	Clinical Pediatric Dentistry II	1	4	2	0803 412
0803 423	Clinical Orthodontics II	1	4	2	0803 413
0804 422	Clinical Periodontics- II	1	4	2	0804 412
0804 423	Clinical Oral Surgery II	1	4	2	0804 413
Total		10	28	17	

* Four (04) Clinical Training Hours=1 Cr.Hrs.

* In-Campus Training Program

This in-campus clinical training program is held at the end of the eighth semester.

Course Code	Course Title	L/C	Lb/T	Cr.Hrs.	Pre-Req.
085435	Summer Clinical Training	-	-	2	Clinical Courses

* See Training Schedule

Fifth Year
First Semester

Course Code	Course Title	L/C	Lb/T	Cr.Hrs.	Pre-Req.
0805 511	Treatment Planning & Seminars I	2	-	2	0804 410, 0804 414
0802 519	Clinical Dentistry I	-	24	6	All clinical courses
0802 511	Geriatric Dentistry	1	-	1	All clinical courses
0802 510	Ethics	1	-	1	xxx xxx
0803 510	Applied Biostatistics	2	-	2	0130 130
0804 515	Emergency Dental Care	1	4	2	All clinical courses
0804 518	Implantology	1	1	1	All clinical courses
Total		9	29	15	

Second Semester

Course Code	Course Title	L/C	Lb/T	Cr.Hrs.	Pre-Req.
0805 521	Treatment Planning & Seminars II	2	-	2	0805 511
0805 522	Research Project	1	-	1	xxx xxx
0802 529	Clinical Dentistry II	-	28	7	0802 519
0805 523	Practice Management	1	-	1	xxx xxx
0805 524	Equipment Maintenance	1	1	1	xxx xxx
0804 526	Hospital Dentistry	-	8	2	0804 515
0804 527	Lasers & Modern Technology	1	1	1	0804 422 & 0804 423
Total		6	38	15	

* Four (04) Clinical Training Hours=1 Cr.Hrs.

Internal Training Program *:

The internal clinical training program is held at the end of the tenth semester.

Course Code	Course Title	L/C	Lb/T	Cr.Hrs.	Pre-Req.
0805535	Summer Clinical Training	-	-	2	Clinical Courses

* See Training Schedule



COURSE DESCRIPTIONS

University Requirements

A) Compulsory Courses:

0500110

ISLAMIC CULTURE 3 CR.HRS.

The course keeps students in touch with their Islamic culture by taking them through the civilization established by prominent scholars and men. The students are expected to compare this culture with the existing ones. The course consists of a general review of Islam as a religion and an approach to life.

0500 120

ARABIC LANGUAGE 3 CR.HRS. (FOR ARABIC SPEAKERS)

This course provides students with the necessary knowledge of Arabic. It also motivates them to appreciate the different styles of Arabic. They acquire grammatical skills and learn the rhetorical expressions of the language. The focus is on developing the students' oral and written skills.

(For Non-Arabic Speakers) This course is aimed at training students in the skills of listening, speaking, reading and writing. The course aims to take students up to a point where they can begin to use Arabic for everyday purposes.

0600 101

ENGLISH-I 3 CR.HRS.

English-I is a course in English as a foreign language at the intermediate level. It provides practice in the language skills of listening, speaking, reading and writing, and a review of structures. There is a functional-notional element in the course. The language laboratory is used for listening and speaking practice.

0310100

INFORMATION TECHNOLOGY FUNDAMENTALS 3 CR.HRS.

This course provides an introduction to computers by covering the components of a computer system, data representation and numeric systems, algorithms and algorithm development, preliminary concepts of programming in a high level programming language with emphasis on a good program, structure and style, and lab assignments to develop familiarity with both the numeric and non-numeric aspects of computer science.

0130130

STATISTICS 3 CR.HRS.

This course provides the students with necessary knowledge of statistics and its application to different fields. The course focuses on descriptive and inferential statistics, population and sample, frequency distribution, descriptive measures of sample data probability,

ties, normal distribution, and simple linear regression and correlation.

B) Elective Courses:

Although elective, the student must register for three (03) courses, after consulting his/her academic advisor, as stated in the curriculum.

0600 102

ENGLISH-II / DENTISTRY 3 CR.HRS.

This is a course in English at the intermediate level in the student's major subject. It provides practice in the language skills while emphasizing the structures, vocabulary and registers appropriate to the student's field. There is also a review, continuing from English I, of structures in a general setting.

0500130

GENERAL PSYCHOLOGY / DENTISTRY 3 CR.HRS.

This course introduces the science of mind and behavior, clinical psychology and the psychological relations between the dentist & the patient.

0514 330

RESEARCH METHODOLOGY / DENTISTRY 3 CR.HRS.

A theoretical and analytical framework of research methodology used in writing a research paper is introduced, including designing a project, collecting information, data processing, etc.

0110110

MATHEMATICS-I 3 CR.HRS.

This course provides the students with the basic knowledge of calculus applications, Plane Analytic Geometry, Matrices and Determinants, Functions and Graphing, Derivatives, Linear Programming, Simple Integration.

0150150

SCIENTIFIC PIONEERING 3 CR.HRS.

This course introduces the student to major inventions and how inventors have acquired patent rights through the ages.

0150151

HISTORY OF SCIENCES IN ISLAM 3 CR.HRS.

This course takes the students through the golden ages of the Islamic peoples, which gave rise to scientific inquiry. It also focuses on the impact of Muslim scholars on modern civilization and its scientific achievements.

1) 0120101

PHYSICS / DENTISTRY

3 CR.HRS.

The course covers the basic principles of the generation, energy, conduction, & measurement of electrical & mechanical forces.

2) 0700126

GENERAL CHEMISTRY / DENTISTRY

3 CR.HRS.

This course provides the dental students with the basic knowledge in organic & inorganic General Chemistry. Laboratory sessions serve as an introduction to the principles of qualitative analysis including ionic equilibrium, ionic separation & the identification of selected simple & complex ions.

3) 700 236

BIOCHEMISTRY / DENTISTRY

4 CR.HRS.

The course covers the study of the constituents of living cells & their chemical reactions. Emphasis is on intermediary metabolism & biologically important reactions of proteins, carbohydrates, and lipids. Also the General Chemistry of enzymes, blood constituents & hormones.

4) 0700 239

PHARMACOLOGY-I

2 CR.HRS.

The course describes the principles of the pharmacokinetics and pharmacodynamics of the biological actions, mechanism, uses, side effects, toxicity, interactions and adverse reaction of drugs acting on autonomic nervous system, cardiovascular system, central nervous system, gastro-intestinal system, endocrine system, renal system, autocoids, antibiotics and other anti-infective agents and anticancer drugs, with an emphasis on dental applications.

5) 0700 240

PHARMACOLOGY-II

2 CR.HRS.

Continuation of Pharmacology-I.

6) 0801 111

INTEGRATED BIOLOGICAL SCIENCES-I

3 CR.HRS.

This course provides dental students with basic principles of Anatomy, and an introduction to Embryology, a foundation that is necessary for their further dental education and clinical practice. The course is intended primarily to help the students understand the fundamentals of human body structure and development. The systemic arrangement of topics helps the student to better understand the subject, and to correlate structure and function of different organs.

7) 0801 121

INTEGRATED BIOLOGICAL SCIENCES-II

4 CR.HRS.

Continuation of Integrated Biological Sciences-I. The course helps

the dental students to understand the basic concepts of anatomy and physiology simultaneously with topics related to dental practice. This course covers the study of the main systems of the body with strong emphasis on the practical aspects.

8) 0801 112

HISTOLOGY & CELL BIOLOGY

3 CR.HRS.

This course describes the structural organization of cells, tissues, and organ systems at a microscopic level, and includes the general principles of cell biology. Students are provided with a basic knowledge of general embryology & genetics.

9) 0801 122 ORAL

HISTOLOGY

4 CR.HRS.

The course studies of the development & structure of the oral cavity & teeth. The microscopic organization of all oral organs & tissues are studied in detail.

10) 0801 123

ANATOMY: HEAD & NECK - I

3 CR.HRS.

The students study the normal structure & function of the oral cavity, head & neck, and the nervous system with areas of clinical importance.

11) 0801 214

MICROBIOLOGY & IMMUNOLOGY

4 CR.HRS.

The course covers:

The fundamentals of microbiology with emphasis on oral microbiota, pathogens & defense mechanisms in the dental environment. The basics of immunology including the immune system & organisms of medical & dental significance. Virology: Virus structure & classification, viral pathogenesis & mechanisms of host defense. Hygiene covering pathogenesis of bacterial, infections, etiology, clinical picture, lab diagnosis, treatment, prevention and control of diseases caused by the different bacteria.

12) 0801 213

ANATOMY: HEAD & NECK-II

3 CR.HRS.

This course deals with structures in the region of the neck as well as the neuroanatomy of the head & neck as related to the dental students. Laboratory sessions help the students to deepen their knowledge in areas related to dentistry through dissections.

13) 0801 215

PATHOLOGY

3 CR.HRS.

The course covers the fundamentals of basic disease processes of the body. Gross, microscopic & biochemical features of pathologic conditions of the organ systems are studied in detail in order to establish a sound foundation for clinical practice.

14) 0801 226

GENERAL MEDICINE

4 CR.HRS.

This comprehensive course covers topics specific to the medical field, with interest to medically - compromised patient as related to dental care. It also deals with the diseases caused by microorganisms & related to dentistry. It introduces the students to the transmission, features, diagnosis, prevention & treatment of infectious diseases.

15) 0801 227

GENERAL SURGERY & ENT

2 CR.HRS.

This course introduces the students to the basic principles of surgery, with emphasis on essentials of history & physical evaluation related to maxillofacial area. This course also includes knowledge on the diseases of the F.N.T. as related to the oral cavity with emphasis on sensitive areas (ophthalmic nerve, sinus, etc.)

16) 0802 221

INTRO. TO ORAL & DENTAL DISEASES 3 CR.HRS.

This is an introduction to Profession of Dentistry with a background to new issues & events through the ages. In addition this course provides students with knowledge & understanding of the oral & dental diseases, their etiology, pathogenesis & the different stages of these lesions and their clinical manifestations.

17) 0802 222

DENTAL ANATOMY

4 CR.HRS.

This course deals with nomenclature & morphology of natural dentition & includes laboratory exercises in the wax carving of anatomically accurate teeth. Analysis of occlusal patterns & correction of occlusal disharmonies are integrated with courses in operative dentistry, prosthodontics, periodontics & orthodontics.

18) 0802 223 BIOMATERIALS (2 CR.HRS.)

The course allows students to understand the mechanical & physical properties of dental materials & their clinical applications. Biomechanical principles & latest advances in dental materials technology are integrated into appropriate dental specialties.

19) 0804 221

ORAL RADIOLOGY-I

3 CR.HRS.

The course deals with the basic principles of x-ray production, the biological effects of ionizing radiation & radiation safety. It emphasizes intra-oral & extra-oral radiographic techniques. Students learn to take & interpret oral radiographs, and perform initial screening examination & diagnosis. The course is integrated with the different dental specialties.

20) 0802 315

PRE-CLINICAL OPERATIVE DENTISTRY I 3 CR.H.

This course introduces concepts of the carious process, diagnosis & treatment of the dental disease. The course also covers cavity design, preparation, & insertion of various restorative materials. Pre-clinical laboratory sessions & clinical demonstrations help the students to develop their skills.

21) 0802 325

OPERATIVE DENTISTRY II

3 CR.HRS.

Lecture series focuses on differential diagnosis & management of caries with emphasis on more complete and advanced techniques.

22) 0802 316

PRE-CLINICAL PROSTHODONTICS I 3 CR.HRS.

Students are introduced to basic principles in treating the partially or totally edentulous patient with removable dentures with focus on understanding the physical biomechanical characteristics of the denture components. The course also teaches the basic principles & techniques related to tooth preparation, impression techniques & crown-bridge confection. Laboratory sessions and demonstrations allow the students to gain more confidence.

23) 0802 326

PRE-CLINICAL PROSTHODONTICS I 3 CR.HRS.

Students learn the various methods & techniques for fixed & removable prosthodontics.

24) 0802 317

PRE-CLINICAL ENDODONTICS I 2 CR.HRS.

The course provides a clear understanding of the biological foundation of the pulp & periapical disease, the etiology & progression of the endodontic pathology & the diagnosis & root canal treatment with emphasis on radiographic interpretation of the pulp & periapical disease. Laboratory sessions help the students to gain practical skills in endodontic procedures.

25) 0802 327

PRE-CLINICAL ENDODONTICS II 2 CR.HRS.

The course deals with pathology, diagnosis, & treatment of the dental pulp & periapical tissues. Students perform advanced root canal treatment during the laboratory sessions.

26) 0802 311

OCCCLUSION

1 CR.HRS.

This course based on biological & behavioral sciences will give the students a multi-disciplinary approach of the Occlusion, to enhance the objectivity of clinical interpretations.

27) 0802 318

FOUR HANDED DENTISTRY & INFECTION CONTROL 2 CR.HRS.

Topics include the review of the medical history, transmission & pathogenesis, oral & systemic manifestations. Students learn the mechanisms by which infectious diseases are transmitted & the risk for transmission in dental practice, such as HIV disease, viral hepatitis & others. Through lectures, demonstrations & clinical practice, students are trained to effectively utilize dental auxiliaries to improve the quality of service while preventing increased stress & fatigue.

28) 0803 311

PREVENTIVE DENTISTRY & NUTRITION 3 CR.HRS.

The preventive dentistry course introduces the student to the philosophy & methods of prevention, including information on etiology on dental caries, periodontal disease & methods of preventing & controlling dental diseases through a preventive treatment plan & health education programs. This course provides the students with a basic knowledge of the essential nutrient materials in both health & disease, and discusses the role of the nutrition on the development, prevention & treatment of the oral & dental diseases.

29) 0803 312

PRE-CLINICAL PEDIATRIC DENTISTRY I 2 CR.HRS.

The course focuses on development & growth of the orofacial structures of the child & adolescent and the diagnosis & treatment planning as well. Principles of child psychology & changing concepts in caries formation are introduced.

30) 0803 322

PRE-CLINICAL PEDIATRIC DENTISTRY II 2 CR.HRS.

The course introduces the principles of dentistry specific to the child with special interest to the emotional development. Procedures & specific techniques are developed to manage the dental conditions.

31) 0803 323

PRE-CLINICAL ORTHODONTICS 2 CR.HRS.

This course is an introduction to orthodontics, its terminology & scope. Topics include physiology of stomatognathic system, description of various malocclusions and systematic study of etiology of orthodontic problems.

32) 0804 321

ORAL RADIOLOGY-II 1 CR.HRS.

The course deals with advanced techniques in dental radiology. Students learn how to assess clinical cases and make differential diagnosis.

33) 0804 312

PRE-CLINICAL PERIODONTICS-I 1 CR.HRS.

The course provides the students with a basic understanding of the normal periodontium, early pathologic changes, their etiologic factors, and basic therapeutics & preventive procedures. Students learn to probe & examine gingival tissues, & develop proficiency in use of instruments for calculus & root planning in-patient-simulating units.

34) 0804 322

PRE-CLINICAL PERIODONTICS-II 2 CR.HRS.

Lectures focus on the periodontal lesions, their etiologic factors, the treatment planning & the management of the periodontal diseases.

35) 0804 313

PRE-CLINICAL ORAL SURGERY-I & PAIN CONTROL 3 CR.HRS.

The course introduces the basic principles of surgery, which include the essentials of medical history & physical evaluation. Topics include fundamentals of asepsis, inflammation & repair, exodontia, & head & neck pathology. Students learn to master techniques of tooth removal & minor surgery procedures in laboratory. It provides the understanding of pain & its management, & the academic aspects of administration of local anesthetics, nitrous oxide and intravenous sedation. Laboratory training helps students to gain more practice & improve their skills.

36) 0804 323

PRE-CLINICAL ORAL SURGERY-II & CARDIAC PULMONARY RESUSCITATION 2 CR.HRS.

Students learn the principles of tissue repair, pre-surgical health status evaluation, principles of surgical asepsis, uncomplicated & complicated exodontia. The course introduces the students to basic life support. It focuses on the assessment & the early active management of the acute cardiac arrest. Students should be CPR certified before entering the clinical phase.

37) 0804 324

ORAL PATHOLOGY-I 2 CR.HRS.

Students learn the fundamentals of basic disease process affecting the head & neck regions, & how to identify the histopathological lesions.

38) 0802 415

CLINICAL OPERATIVE DENTISTRY-I 2 CR.HRS.

Students apply the newly acquired skills in diagnosing & treating patients under the supervision of qualified staff members.

39) 0802 425

CLINICAL OPERATIVE DENTISTRY-II 2 CR.HRS.

This advanced operative dentistry course focuses on a full range of challenging cases as related to other disciplines. Students develop their clinical skills, using the latest techniques in cosmetic dentistry. A lecturer is provided to fourth year students to emphasize more complex & sophisticated techniques.

40) 0802 416

CLINICAL PROSTHODONTICS-I 2 CR.HRS.

The course provides the students with concepts of clinical fixed & removable prosthodontics. Students treat a number of clinical cases of partial & full dentures, and concentrate on tooth preparation procedures & laboratory techniques.

41) 0802 426

CLINICAL PROSTHODONTICS-II 2 CR.HRS.

Lecture course on advanced procedures in fixed and removable prosthodontics, with emphasis on occlusal registration, and integration of periodontal - endodontic considerations. Students perform complex clinical cases & accomplish all assigned laboratory procedures associated with the treatment of the above clinical cases.

42) 0802 417

CLINICAL ENDODONTICS-I 2 CR.HRS.

The course covers in depth the pathology of the pulpal tissues & their clinical manifestations. Topics include pulpal & periapical emergencies, and differential diagnosis of the pulpal pathology. Students perform non-surgical endodontic therapy & learn to relieve pain in emergencies.

43) 0802 427

CLINICAL ENDODONTICS-II 2 CR.HRS.

This lecture course deals with advanced endodontic concepts, including peripheral surgery & endodontic-periodontic relationship. Students perform non-surgical root canal treatment on single & multi-rooted teeth, & learn how to assess the success & failure in endodontic treatments.

44) 0803 412

CLINICAL PEDIATRIC DENTISTRY-I (2 CR.HRS.)

Students develop their skills in clinical treatment of a wide variety of childhood conditions, with emphasis on tooth preparation & fabrication of the stainless steel crown.

45) 0803 422

CLINICAL PEDIATRIC DENTISTRY-II 2 CR.HRS.

Students learn clinical procedures & specific techniques to manage

the dental condition of the child patient, and perform clinical treatment for pediatric patients.

46) 0803 413

CLINICAL ORTHODONTICS-I 2 CR.HRS.

This course deals with the treatment of minor orthodontic procedures. Students learn to achieve removable orthodontic appliances for correction of minor malocclusions.

47) 0803 423

CLINICAL ORTHODONTICS-II 2 CR.HRS.

This course introduces the systematic methods of recognizing, classifying & treatment planning of various types of malocclusions, with emphasis on analysis of the cephalometric X-ray in diagnosing clinical cases.

48) 0804 410

ORAL DIAGNOSIS / ORAL MEDICINE 3 CR.HRS.

The course deals with training the students in developing a doctor-patient relationship and evaluating the patient, by taking a detailed case history and conducting extra- & intra-oral examination in the head & neck region. Based on discussion, students learn to arrive at a differential diagnosis, leading to the provisional diagnosis and framing the appropriate treatment plan.

49) 0804 412

CLINICAL PERIODONTICS-I 2 CR.HRS.

Students initiate periodontal procedures on patients with gingivitis & early to moderate stages of periodontitis.

50) 0804 422

CLINICAL PERIODONTICS-II 2 CR.HRS.

This advanced clinical periodontics course focuses on objectives of periodontal therapy, treatment planning & treatment techniques, including preprosthetic surgery, reconstructive and plastic surgery.

51) 0804 413

CLINICAL ORAL SURGERY-I 2 CR.HRS.

Students gain more experience in various minor surgical procedures & learn to manage emergency cases. The course introduces the student to assessment of surgery for impacted teeth, biopsies, suturing techniques, & treatment of odontogenic infections.

52) 0804 423

CLINICAL ORAL SURGERY-II 2 CR.HRS.

This course covers advanced oral surgery subjects, including fractures, cysts, benign & malignant neoplasm, T.M.J. disorders, and its surgical / medical management as well. Students gain additional

experience in various clinical procedures along with physical diagnosis.

53) 0804 414

ORAL PATHOLOGY-II 2 CR.HRS.

This course provides a comprehensive clinical evaluation & management of oral mucosal diseases with emphasis on differential diagnosis & current therapeutic means.

54) 0805 511

TREATMENT PLANNING & SEMINARS-I 2 CR.HRS.

Topics review assessment of advanced clinical diagnosis & sequential comprehensive treatment plan, with special emphasis on the rationale for decision making. Students develop analytic skills in assessing the various treatment plans, for the patients seen during the comprehensive patient management sessions.

55) 0805 521

TREATMENT PLANNING & SEMINARS-II 2 CR.HRS.

Topics related to advanced & newer concepts in the field are presented in a multidisciplinary series of seminars. Issues such as ethics in dentistry, health care delivery, and practice management are also discussed.

56) 0805 522

RESEARCH PROJECT 1 CR.HRS.

Under the guidance of a Faculty Advisor, students choose, explore, and develop an interest in a relevant specific field of basic sciences or dental sciences. Students learn how to read & evaluate scientific literature, gather data & subject it to critical analysis. Students present & defend their project before an academic committee of the Faculty.

57) .0802 519

CLINICAL DENTISTRY-I 6 CR.HRS.

Students are assigned patients with a comprehensive approach to dental practice, including patient & clinic management, stressing inter - and multidisciplinary treatment of more challenging cases. Emphasis is on comprehensive treatment planning, diagnosis & management of the medically compromised patient

58) 0802 529

CLINICAL DENTISTRY-II 7 CR.HRS.

Continuation of Clinical Dentistry-I.

59) 0802 511 GERIATRIC DENTISTRY 1 CR.HRS.

This course provides a framework for assessing the ageing process with evaluation of the psychological aspects & pathological changes. Comprehensive geriatric patient care will be discussed

60) 0802 510

ETHICS 1CR.HRS.

Introduction to the ethical responsibilities & principles of general biomedical ethics. Discussion of professional malpractice, legal & ethical responsibilities in fulfilling the doctor's obligations to the patients, the profession & the community.

61) 0803 510

APPLIED BIOSTATISTICS 2 CR.HRS.

This course provides the dental students with the necessary background of specific statistics relevant to the medical/dental fields.

62) 0805 523

PRACTICE MANAGEMENT 1CR.HRS.

Review of topics essential for new graduates planning to establish a dental practice. Issues include referral mechanisms, recall systems, financing, purchasing equipment & government regulations which affect dental practitioners.

63) 0805 524

EQUIPMENT MAINTENANCE 1CR.H.

This course introduces students to the basic knowledge of a dental unit, parts, and maintenance.

64) 0804 515

EMERGENCY DENTAL CARE 2 CR.H.

Students gain experience in diagnosing & managing patients with acute dental emergencies, including placement of temporary restorations & performing emergency treatments.

65) 0804 526

HOSPITAL DENTISTRY 2 CR.H.

Clinical rotations allow students to gain more experience in procedures & protocol related to hospital dentistry, operating room dentistry, anesthesia for dentistry & systemic patient management.

66) 0804 527

LASERS & MODERN TECHNOLOGY 1 CR.HRS.

Lectures & demonstrations provide students with the latest technology in dental practice, using lasers in oral surgery, periodontics & operative dentistry.

67) 0804 518 IMPLANTOLOGY 1 CR.H.

This comprehensive lecture course presents the scientific basis & clinical applications of modern dental implantology techniques, & covers both surgical procedures and periodontic & prosthodontic considerations in implant dentistry. Students perform implantology procedures in a laboratory setting. The credited dental training hours are part of the curriculum and includes different phases:

TRAINING PROGRAMS

Fourth Semester:

Students self-screening under staff supervision.

Screening school children.

Students get familiar with different oral and dental diseases.

Each dental student is assigned a number of school children for screening their oral health status throughout the four academic years.

1 Credit hour = 2 Practical hours.

Weekly contact hours: 7

Credit hours = 3.5

Fifth & Sixth Semesters:

Dental students are involved in the Preventive Dentistry program and epidemiology, providing fluoride tablets, fissure sealants, re-screening their assigned patients on a six-month basis.

Pre-clinical training using patient simulating units.

1 Credit hour = 3 Pre-clinical practical hours.

Weekly contact hours: 41

Credit hours = 13.5

Seventh & Eighth Semesters:

Training within the premises of the Faculty. The dental students improve their clinical skills through a more integrated team approach, treating the school children assigned to them as well as the neighboring patients population.

1 Credit hour = 4 Clinical practical hours.

Weekly contact hours: 62

Credit hours = 15.5

Ninth & Tenth Semesters:

Internship: Students are assigned to affiliated medical and / or dental hospital to provide hospital dentistry training. Also the students will perform comprehensive dental care within the premises of the faculty under the supervision of clinical staff.

1 Credit hour = 4 Clinical Practical hours.

Weekly contact hours: 67

Credit hours = 16.75

Total Credit Hours: 49.25

Training Schedule for Dental Students (16 Weeks / Semester)

Semesters Contact	Cr.Hrs.	Practical (Hrs/week)
Fourth Semester*	3.5	7
Fifth & Sixth Semesters**	13.5	41
Seventh & Eighth Semesters***	15.5	62
Ninth & Tenth Semesters***	16.75	67
Total Credit Hours:	49.25	

* 1 Cr./ hrs. = 2 Practical hours

** 1 Cr./hrs. = 3 Pre-clinical practical hours.

*** 1Cr. / hrs. = 4 Clinical practical hours.

Summer training:

Summer training program of eight weeks duration is based on a comprehensive patient treatment approach. four weeks (internal); at the end of the 8th semester 2 Cr.Hrs.

Four weeks (internal): at the end of the 10th semester 2 Cr. Hrs.

Total : 4 Cr. Hrs.

Weekly clinical contact hours : 20 hours

Research Project:

Students should submit & defend a research project before an academic committee of the Faculty, prior to graduation.

This research project should be conducted under supervision of an academic advisor selected according to the topic chosen by the student.

**FACULTY MEMBERS
ACADEMIC YEAR 2004-2005**

Academic Rank	No.
Professors	4
Associate Professors	8
Assistant Professors	18
Lecturers	25
Total	55
Dean	1
Deputy Deans	3

Introduction

Mission

Objectives

Department

Programs Offered

Admission Requirements

Facilities

Deans

Electronic Engineering Program

Electromechanical Engineering Program

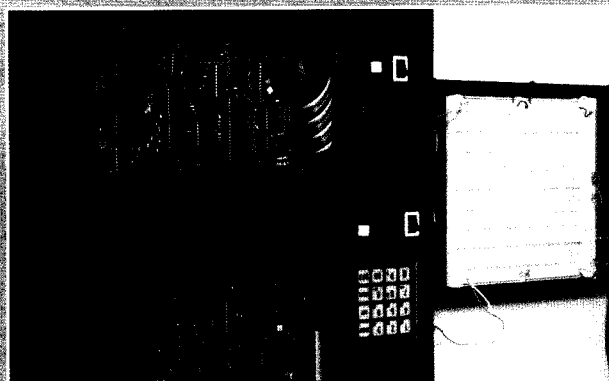
Industrial Engineering Program

Architectural Engineering Program

Interior Design Program

Visual Design Program

Faculty Members



FACULTY OF ENGINEERING

CONTENTS

Introduction	164
Mission	164
Objectives	164
Departments	164
Programs Offered	164
Admission Requirements	164
Facilities	165
Training	165
Electronic Engineering Program	166
Communication Engineering Program	174
Biomedical Engineering Program	182
Architectural Engineering Program	190
Interior Design Program	197
Course Descriptions	203
Faculty Members	215



The academic programs of the Faculty of Engineering are designed to graduate students who are:

- competent engineers having sound knowledge and professional studies in their area of specialization.

The academic programs of the Faculty of Engineering are designed to graduate students who are:

- competent engineers having sound knowledge and professional studies in their area of specialization.

Admission to the Faculty of Engineering requires a UAE secondary school certificate (science major) or its equivalent with a minimum acceptable percentage of 70% for Electronics, Communication, Biomedical, and Architecture Engineering programs. For Interior Design, the minimum acceptable percentage is 60% science or arts major. For more information please refer to the University admission policy.

The Faculty of Engineering offers the following programs:

- A- Bachelor of Science (B.Sc.) in Electrical Engineering (Electronics)
- B- Bachelor of Science (B.Sc.) in Electrical Engineering (Communication)
- C- Bachelor of Science (B.Sc.) in Biomedical Engineering
- D- Bachelor of Science (B.Sc.) in Architectural Engineering
- E- Bachelor in Interior Design

- Department of Electrical Engineering
- Department of Biomedical Engineering
- Department of Architectural Engineering
- Department of Interior Design

attitude:

- capable of applying theoretical knowledge to solve practical problems,
- equipped with skills needed for productive engineering careers,
- able to perform their tasks individually as well as members of a team,
- proficient in oral and written communication,
- motivated for life-long learning throughout their careers,
- capable of pursuing graduate studies,

Faculty

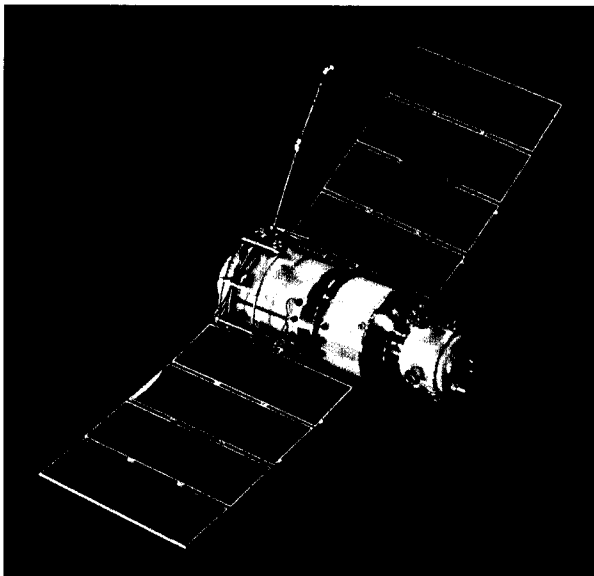
Academic Staff

The academic staff of the Faculty are well versed in their areas of specialization and hold the highest academic degrees from internationally recognized universities.

Laboratories

The Faculty has well-equipped laboratories to provide practical hands-on experience to engineering students of all specializations. The major laboratories in the Faculty are as follows:

- Electronics Laboratory
- Communication Laboratory
- Biomedical Laboratory
- Computer-Aided Design Laboratory
- Power Electronics Laboratory
- Electromechanical Energy Conversion Laboratory
- Control Laboratory
- Projects Laboratory



Facilities

The Faculty houses sufficient number of modern studios equipped with a variety of drawing, drafting and printing instruments and tools for Architectural Engineering and Interior Design students.

Lecture Rooms

Lecture rooms in the Faculty are furnished with study chairs and desks. Provisions are made to facilitate the use of audiovisual aids such as overhead projectors, slide projectors, computer projection devices and video-tape players. Many of the lecture rooms are also connected to the University Network.

Others

The Faculty students also have access to other University facilities such as computer rooms, learning and information resources, book-shop, sports and recreation hall, cafeteria, clinic, playing grounds, swimming pool, etc.

Training

Training is an essential part of the curriculum of all Engineering programs. Students are required to complete a total period of four months (4 credit hours), working at industrial establishments, health-care facilities, building and contracting companies, interior design companies etc. The aim of the training program is to enable students to acquire practical skills, get an understanding of the work environment, and improve their communication skills.

Training is divided into:

Internal

The Faculty has established an internal training program to enhance basic practical and professional skills of students of Electronics, Communication and Biomedical Engineering prior to their external training. The internal training for Architecture and Interior Design students is designed to enhance students' skills in free-hand drawing, coloring and rendering.

External:

The Faculty has established links with many local companies, hospitals, power plants, and telecommunication firms to provide on-site training to its students.

ELECTRONIC ENGINEERING PROGRAM

Introduction

Modern life has become increasingly dependent on electronic devices and systems. Electronic Engineering plays a major role in a wide range of industries and is one of the fastest developing fields of specialization. Competent Electronic Engineers are therefore needed in large number of industries involving electronic equipment and systems. The Electronic Engineering program equips its graduates with technical knowledge and skills in areas such as electronic circuits, microprocessors, instrumentation, control systems, CAD, and integrated circuit applications.

Mission

The mission of the Electronics Engineering program is to provide high quality Electronics Engineering education to its students. It places special emphasis on developing the technical as well as generic skills of its students so that they are well qualified for immediate employment in their area of specialization and can effectively contribute in the advancement of the community. It also aims to prepare its students for graduate studies in Electronic Engineering.

Objectives

The Electronic Engineering program aims at graduating students who:

1. have a strong foundation of basic sciences and mathematics and are able to apply this knowledge to analyze and solve engineering problems.
2. have acquired broad theoretical as well as practical knowledge related to the Electronic Engineering specialization.
3. have acquired skills needed for designing, analyzing, and trouble-shooting electronic circuits and systems.
4. are proficient in computer aided design tools and software packages to design projects or systems to meet specified requirements.
5. have good communication skills and can work effectively as members of a team.
6. have acquired the generic skills needed to function in the multi-

disciplinary, diverse, competitive and fast-changing engineering environment of the UAE.

7. have developed abilities for critical thinking and lifelong learning and are capable of updating their technical knowledge while working as professional engineers.

Admission Requirements

Admission to the Electronic Engineering program requires a UAE secondary school certificate (Science major) or its equivalent with a minimum acceptable percentage of 70%. *For more information please refer to the University admissions policy.*

Graduation Requirements

Graduates of the Electronic Engineering specialization can pursue careers in a wide range of industries and services. This include the computer industry, industrial instrumentation and process control, radio and television broadcast stations, design and development companies, and service firms.

Graduation Requirement

The Bachelor of Science degree is awarded upon the fulfilment of the following:

- 1- successful completion of all courses in the curriculum (161 Cr. Hrs.)
- 2- successful completion of 4 months of engineering training (4 Cr. Hrs.).
- 3- a final accumulative grade point average (AGPA) of not less than 2.0 (on a 4.5 scale).

ELECTRONIC ENGINEERING CURRICULUM (165 Cr. Hrs.)

The Electronic Engineering curriculum comprises of:

1- University Requirements (Compulsory)	15 Cr. Hrs.
2- University Requirements (Elective)	03 Cr. Hrs.
3- Faculty Requirements	48 Cr. Hrs.
4- Specialization Requirements (Compulsory)	80 Cr. Hrs.
5- Specialization Requirements (Elective)	15 Cr. Hrs.
6- Engineering Training	04 Cr. Hrs.

UNIVERSITY REQUIREMENTS (18 Cr. Hrs.)

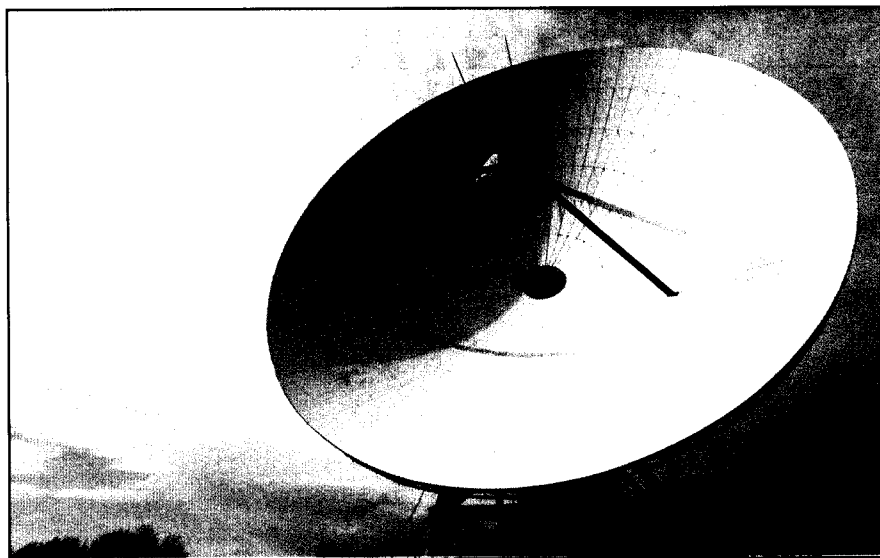
Compulsory Courses

Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Statistics	130130	3	2	2	—
2. IT Fundamentals	310100	3	2	2	—
3. Islamic Culture	500110	3	3	1	—
4. Arabic Language	500120	3	3	—	—
5. English Language I	600101	3	3	—	—

Elective Courses (03 Cr. Hrs.)

Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Scientific Pioneering and Patents	150150	3	3	—	—
2. History of Science in Islam	150151	3	3	—	—
3. General Psychology	500130	3	3	—	—
4. Research Methodology	514328	3	3	—	—
5. Environment, Water and Energy	700100	3	3	—	—

Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Mathematics I	110100	3	3	1	---
2. Mathematics II	111122	3	3	1	110100
3. Mathematics III	111223	3	3	1	111122
4. Mathematics IV	112224	3	3	—	111223
5. Mathematics V	112325	3	3	—	111223
6. Physics I	121131	4	3	2	—
7. Physics II	121132	4	3	2	121131
8. Chemistry	141211	3	2	2	---
9. Engineering Graphics	201102	3	2	2	---
10. Engineering Management	202504	2	2	—	203403
11. Engineering Economy	203403	2	2	—	110100, 130130
12. Engineering Mechanics	232203	3	3	1	111122, 121131
13. Introduction to Structured Programming	213132	3	2	2	310100
14. English Language II	600102	3	3	—	610110
15. Engineering Materials	233201	3	3	—	121131
16. Engineering Thermodynamics	231202	3	3	1	111122



1.3 ELECTRONIC ENGINEERING SPECIALIZATION COURSES

Title	Course Code	Cr. Hrs.	Lec.	Tut/Lab.	Prerequisite
1. Engineering Electromagnetics	210311	3	3	1	111223
2. Analog Integrated Circuits	211414	3	3	2	211313
3. Communication Systems	212323	3	3	2	212412
4. Project I	211390	3	1	4	Approval of Faculty
5. Digital Integrated Circuits	211415	3	3	1	213233, 211313
6. Digital Control Systems	214445	3	3	2	214342, 214441
7. Electromechanical Energy Conversion	217370	3	3	2	210311
8. Communication Theory	212412	3	3	2	214441
9. Circuit Design with VLSI	211516	3	3	1	211415
10. Microcomputer Systems	213431	3	3	2	213336
11. Digital System Design	213441	3	3	2	213233
12. Computer Aided Circuit Design	215508	3	3	2	211313, 213336
13. Power Electronics	216316	3	3	2	211313
14. Integrated Circuit Applications	211515	3	3	2	211414
15. Project II	211591	2	1	2	211390
16. Project III	211595	3	1	4	211591
17. Electrical Instrumentation and Measurements	210222	3	3	2	215201
18. Electronic Devices and Circuits I	211212	3	3	2	215201
19. Electronic Devices and Circuits II	211313	3	3	2	211212
20. Digital Signal Processing	212531	3	3	2	214441
21. Logic Design	213233	3	3	2	310100
22. Computer Org. & Assembly	213336	3	3	2	213233
23. Control Systems	214342	3	3	2	111223, 210222
24. Signals and Systems	214441	3	3	1	112224
25. Circuit Analysis I	215201	3	3	2	121132
26. Circuit Analysis II	215202	3	3	2	215201
27. Electronic Inst. and Measurements	211305	3	3	2	210222, 211212

Electronics Engineering

Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Electromagnetic and Wave Propagation	210312	3	3	1	210311
2. Laser and Optical Electronics	211517	3	3	—	210312, 211212
3. Microwave Electronics	211518	3	3	—	211313, 210311
4. Fault Diagnosis	211538	3	3	—	211313, 213336
5. Acoustical Engineering	212421	3	3	1	111223, 121131
6. Antenna Theory and Design	212423	3	3	2	210312
7. Computer Communications	212521	3	3	1	212412
8. Digital Data Communications	212523	3	3	2	214441
9. Switching and Computer Networks	212524	3	3	1	212523
10. Microwave Engineering	212525	3	3	2	210312
11. Satellite Communications	212527	3	3	—	212412, 210312
12. Information Theory and Coding	212528	3	3	—	214441
13. Operating Systems	213538	3	3	1	213336
14. Industrial Control Systems	214443	3	3	2	213336, 214342
15. Intelligent Systems and Robotics	214546	3	3	1	213336, 214443
16. Circuit Synthesis	215505	3	3	2	215202
17. Electrical Power Systems	216260	3	3	—	215202
18. Solid State Electronics	211519	3	3	—	211313
19. Comm. Systems II	212424	3	3	—	212412
20. Mobile Communication	212533	3	3	—	210312, 212412
21. Optical Fiber Communication	212529	3	3	—	212412
22. Semiconductor Device Modeling	211520	3	3	—	211313

Study Plan for the Electrical Engineering Program

First Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
110100	Mathematics I	3	3	1	—
600101	English Language I	3	3	—	—
121131	Physics I	4	3	2	—
310100	IT Fundamentals	3	2	2	—
141211	Chemistry	3	2	2	—
xxxxxx	University Requirement	3	3	—	—
Total		19			

Second Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
111122	Mathematics II	3	3	1	110100
600102	English Language II	3	3	—	610110
121132	Physics II	4	3	2	—
201102	Engineering Graphics	3	2	2	—
213132	Introduction to Structured Programming	3	2	2	310100
xxxxxx	University Requirement	3	3	—	—
Total		19			

Third Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
111223	Mathematics III	3	3	1	111122
215201	Circuit Analysis I	3	3	2	121132
213233	Logic Design	3	3	2	310100
232203	Engineering Mechanics	3	3	1	111122, 121131
233201	Engineering Materials	3	3	—	121131
xxxxxx	University Requirement	3	3	—	—
Total		18			

Fourth Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
112224	Mathematics IV	3	3		111223
215202	Circuit Analysis II	3	3	2	215201
210222	Electrical Instrumentation and Measurements	3	3	2	215201
231202	Engineering Thermodynamics	3	3	1	111122
211212	Electronic Devices and Circuits I	3	3	2	215201
xxxxxx	University Requirement	3	3		—
Total		18			

Fifth Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
112325	Mathematics V	3	3	—	111223
211313	Electronic Devices and Circuits II	3	3	2	211212
203403	Engineering Economy	2	2		130130
213336	Computer Org. & Assembly	3	3	2	213233
214441	Signals and Systems	3	3	1	112224
210311	Engineering Electromagnetics	3	3	1	111223
Total		17			

Sixth Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
214342	Control Systems	3	3	2	111223, 210222
213431	Microcomputer Systems	3	3	2	213336
217370	Electromechanical Energy Conversion	3	3	2	210311
214414	Analog Integrated Circuits	3	3	2	211313
212412	Communication Theory	3	3	2	214441
Total		15			

Seventh Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
211305	Electronic Instrumentation and Measurements	3	3	2	210222, 211212
211390	Projects I	3	1	4	Faculty Approval
21xxxx	Specialization Elective	3	3	1	xxxxxx
216316	Power Electronics	3	3	2	211313
211323	Communication Systems	3	3	2	212412
Total		15			

Electronics

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
214445	Digital Control Systems	3	3	2	214342, 214441
211415	Digital Integrated Circuits	3	3	1	211313, 213233
213441	Digital System Design	3	3	2	213233
2114xx	Specialization Elective	3	3	x	xxxxx
21x4xx	Specialization Elective	3	3	x	xxxxx
Total		15			

Computer

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
215508	Computer Aided Circuit Design	3	3	2	211313, 213336
211515	Integrated Circuit Applications	3	3	2	211414
212531	Digital Signal Processing	3	3	2	214441
211xxx	Specialization Elective	3	3	x	xxxxx
211591	Project II	2	1	2	211390
Total		14			

Engineering

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
211516	Circuit Design with VLSI	3	3	1	211415
202504	Engineering Management	2	2	—	203403
211xxx	Specialization Elective	3	3	x	xxxxx
211595	Project III	3	1	4	211591
Total		11			
210300	Engineering Training	4	-	-	-

COMMUNICATION ENGINEERING PROGRAM

Introduction

Communication engineering deals with modern techniques of transmitting various forms of information. This information can be digital or analog transmitted by wired or wireless media, such as, radio waves, cables, and optical fibers. Radio, television, telephone and computer networks are typical examples of communication systems. The recent widespread use of modern communication systems demands qualified communication engineers to deal with various technical aspects of these systems. The Communication Engineering program equips its graduates with technical knowledge and skills in areas such as communication systems, digital data communication, microwave engineering, satellite communication, mobile communication, and computer networks.

Mission

The mission of the Communication Engineering program is to provide high quality Communication Engineering education to its students. It places special emphasis on developing the technical as well as generic skills of its students so that they are well qualified for immediate employment in their areas of specialization and can effectively contribute in the development of the community. It also aims to prepare its students for graduate studies in Communication Engineering.

Objectives

The Communication Engineering program aims at graduating students who:

- 1- have a strong foundation of basic sciences and mathematics and are able to apply this knowledge to analyze and solve engineering problems.
- 2- have acquired broad theoretical as well as practical knowledge related to Communication Engineering specialization.
- 3- have acquired skills needed for designing, analyzing, and trouble-shooting communication circuits or systems.
- 4- be proficient in computer-aided design tools and software packages to design projects or systems to meet specified requirements.
- 5- have good communication skills and can work effectively as members of a team.
- 6- have acquired the generic skills needed to function in the multidisciplinary, diverse, competitive and fast-changing engineering environment of UAE
- 7- have developed abilities for critical thinking and lifelong learning and are capable of updating their technical knowledge while working as professional engineers.

Admission Requirements

Admission to the Communication Engineering program requires a UAE secondary school certificate (Science major) or its equivalent with a minimum acceptable percentage of 70%.

For more information please refer to the University admissions policy.

Career Opportunities

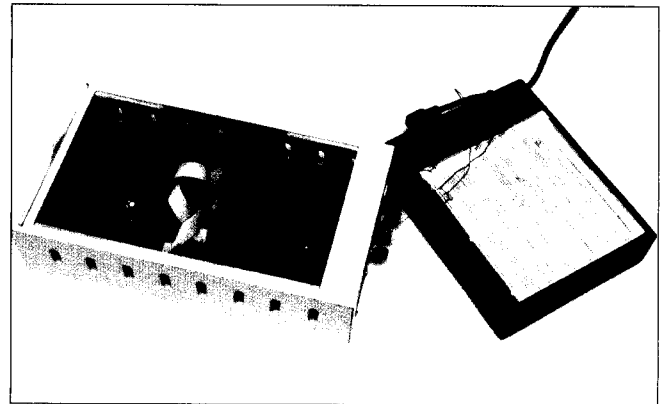
Graduates of the communication engineering specialization can pursue careers in a wide range of areas.

- Local or international telecommunication companies as design, maintenance or marketing engineers.
- Digital data communication industry i.e. computer networks.
- Mobile Telephone industry.
- Television and Radio stations.
- Industrial electronics and instrumentation units.

Qualification Requirements

The Bachelor of Science Degree is awarded upon the fulfillment of the following:

- 1- Successful completion of all courses in the curriculum (161 Cr.Hrs.)
- 2- Successful completion of 4 months of engineering training (4 Cr.Hrs.)
- 3- A final AGPA (Accumulative Grade Points Average) not less than 2.0 (on a 4.5 scale).



COMMUNICATION ENGINEERING CURRICULUM (165 Cr. Hrs.)

The Communication Engineering curriculum comprises of the following :

1. University Requirements (Compulsory)	15 Cr. Hrs.
2. University Requirements (Elective)	03 Cr. Hrs.
3. Faculty Requirements	48 Cr. Hrs.
4. Specialization Requirements (Compulsory)	80 Cr. Hrs.
5. Specialization Requirements (Elective)	15 Cr. Hrs.
6. Engineering Training	04 Cr. Hrs.

2-1 UNIVERSITY REQUIREMENTS (Compulsory)

Course Code

Course Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Statistics	130130	3	2	2	—
2. I.T. Fundamentals	310100	3	2	2	—
3. Islamic Culture	500110	3	3	1	—
4. Arabic Language	500120	3	3	—	—
5. English Language I	600101	3	3	—	—

2-2 Electives

Course Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Scientific Pioneering and Patents	150150	3	3	—	—
2. History of Science in Islam	150151	3	3	—	—
3. General Psychology	500130	3	3	—	—
4. Research Methodology	514328	3	3	—	—
5. Environment, Water and Energy	700100	3	3	—	—

2-2 FACULTY REQUIREMENTS (48 Cr. Hrs.)

Course Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Mathematics I	110100	3	3	1	
2. Mathematics II	111122	3	3	1	110100
3. Mathematics III	111223	3	3	1	111122
4. Mathematics IV	112224	3	3		111223
5. Mathematics V	112325	3	3		111223
6. Physics I	121131	4	3	2	
7. Physics II	121132	4	3	2	
8. Chemistry	141211	3	2	2	
9. Engineering Graphics	201102	3	2	2	
10. Engineering Management	202504	2	2		203403
11. Engineering Economy	203403	2	2		130130, 110100
12. Engineering Mechanics	232203	3	3	1	111122, 121131
13. Introduction to Structured Programming	213132	3	2	2	310100
14. English Language II	600102	3	3		610110
15. Engineering Materials	233201	3	3		121131
16. Engineering Thermodynamics	231202	3	3	1	111122



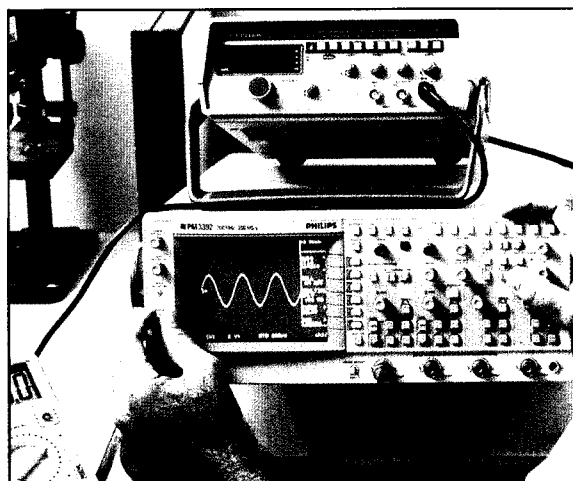
2-3 COMMUNICATION ENGINEERING SPECIALIZATION COURSES

Continuation of Curriculum Set Table 1

Course Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Engineering Electromagnetics	210311	3	3	1	111223
2. Analog Integrated Circuits	211414	3	3	2	211313
3. Communication Systems	212323	3	3	2	212412
4. Project I	212390	3	1	4	Approval of Faculty
5. Digital Integrated Circuits	211415	3	3	2	213233, 211313
6. Digital Control Systems	214445	3	3	2	214342, 214441
7. Electromechanical Energy Conversion	217370	3	3	2	210311
8. Communication Theory	212412	3	3	2	214441
9. Electromagnetic and Wave Propagation	210312	3	3	1	210311
10. Acoustical Engineering	212421	3	3	1	111223, 121131
11. Antenna Theory and Design	212423	3	3	2	210312
12. Digital Data Communications	212523	3	3	1	214441
13. Switching and Computer Networks	212524	3	3	1	212523
14. Microwave Engineering	212525	3	3	2	210312
15. Project II	212591	2	1	2	212390
16. Project III	212595	3	1	4	212591
17. Electrical Instrumentation & Measurements	210222	3	3	2	215201
18. Electronic Devices and Circuits I	211212	3	3	2	215201
19. Electronic Devices and Circuits II	211313	3	3	2	211212
20. Digital Signal Processing	212531	3	3	2	214441
21. Logic Design	213233	3	3	2	310100
22. Computer Org. & Assembly	213336	3	3	2	213233
23. Control Systems	214342	3	3	2	111223, 210222
24. Signals and Systems	214441	3	3	1	112224
25. Circuit Analysis I	215201	3	3	2	121132
26. Circuit Analysis II	215202	3	3	2	215201
27. Electronic Inst. and Measurements	211305	3	3	2	210222, 211212

Elective Courses (15 Cr. Hrs.)

Course Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Circuit Design with VLSI	211516	3	3	1	211415
2. Microcomputer Systems	213431	3	3	2	213336
3. Digital System Design	213441	3	3	2	213233
4. Computer-Aided C. Design	215508	3	3	2	211313, 213336
5. Power Electronics	216316	3	3	2	211313
6. Integrated Circuit Applications	211515	3	3	2	211414
7. Laser and Optical Electronics	211517	3	3	—	210312, 211212
8. Microwave Electronics	211518	3	3	—	211313, 210311
9. Fault Diagnosis	211538	3	3	—	211313, 213336
10. Computer Communications	212521	3	3	1	212412
11. Satellite Communications	212527	3	3	—	212412, 210312
12. Information Theory and Coding	212528	3	3	—	214441
13. Operating Systems	213538	3	3	1	213336
14. Industrial Control Systems	214443	3	3	2	213336, 214342
15. Intelligent Systems and Robotics	214546	3	3	1	213336, 214443
16. Circuit Synthesis	215505	3	3	2	215202
17. Electrical Power Systems	216260	3	3	—	215202
18. Solid State Electronics	211519	3	3	—	211313
19. Mobile Communications	212533	3	3	—	210312, 212412
20. Communication Systems II	212424	3	3	—	212412
21. Optical Fiber Comm.	212529	3	3	—	212412
22. Semiconductor Device Modelling	212520	3	3	—	212313



Mathematics I

Engineering Program

1990

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
110100	Mathematics I	3	3	1	—
600101	English Language I	3	3	—	—
121131	Physics I	4	3	2	—
310100	E.T. Fundamentals	3	2	2	—
141211	Chemistry	3	2	2	—
xxxxxx	University Requirement	3	3	—	—
Total		19			

1991

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
111122	Mathematics II	3	3	1	110100
600102	English Language II	3	3	—	610110
121132	Physics II	4	3	2	—
201102	Engineering Graphics	3	2	2	—
213132	Introduction to Structured Programming	3	3	2	310100
xxxxxx	University Requirement	3	3	—	—
Total		19			

1992

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
111223	Mathematics III	3	3	1	111122
215201	Circuit Analysis I	3	3	2	121132
213233	Logic Design	3	3	2	310100
232203	Engineering Mechanics	3	3	1	111122, 121131
233201	Engineering Materials	3	3	—	121131
xxxxxx	University Requirement	3	3	—	—
Total		18			

Fourth Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
112224	Mathematics IV	3	3		111223
215202	Circuit Analysis II	3	3	2	215201
210222	Electrical Instrumentation and Measurements	3	3	2	215201
231202	Engineering Thermodynamics	3	3	1	111122
211212	Electronic Devices and Circuits I	3	3	2	215201
xxxxxx	University Requirement	3	3		—
Total		18			

Fifth Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
112325	Mathematics V	3	3	1	112224
211313	Electronic Devices and Circuits II	3	3	2	211212
203403	Engineering Economy	2	2	—	130130
213336	Computer Org. & Assembly	3	3	2	213233
214441	Signals and Systems	3	3	1	112224
210311	Engineering Electromagnetic	3	3	1	111223
Total		17			

Sixth Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
214342	Control Systems	3	3	2	111223, 210222
210312	Electromagnetic and Wave Propagation	3	3	1	210311
217370	Electromechanical Energy Conversion	3	3	2	210311
214414	Analog Integrated Circuits	3	3	2	211313
212412	Communication Theory	3	3	2	214441
Total		15			

Seventh Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
211305	Electronic Instrumentation and Measurements	3	3	2	210222, 211212
212390	Project I	3	1	4	Faculty approval
21xxxx	Specialization Elective	3	3	—	xxxxxx
211323	Communication Systems	3	3	2	212412
212421	Acoustical Engineering	3	3	1	121131, 111233
Total		14			

214445

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
214445	Digital Control Systems	3	3	2	214342, 214441
211415	Digital Integrated Circuits	3	3	1	211313, 213233
212423	Antenna Theory Design	3	3	2	210312
21xxx	Specialization Elective	3	3	x	xxxxx
212xxx	Specialization Elective	3	3	x	xxxxx
Total		15			

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
212525	Microwave Engineering	3	3	2	210312
212523	Digital Data Communications	3	3	2	213336, 214441
212531	Digital Signal Processing	3	3	2	214441
212xxx	Specialization Elective	3	3	x	xxxxx
212591	Project II	2	1	2	212390
Total		14			

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
212524	Switching and Computer Networks	3	3	1	212523
202504	Engineering Management	2	2	—	203403
212xxx	Specialization Elective	3	3	x	xxxxx
212595	Project III	3	1	4	212591
Total		11			
210300	Engineering Training	4	-	-	

BIOMEDICAL ENGINEERING PROGRAM

Introduction

With increasing use of sophisticated equipment and medical procedures, health care is becoming one of the areas where technology is having a dramatic impact on people's lives. Biomedical Engineers work closely with doctors, nurses and other health-care workers, installing, maintaining and offering support in the use of a range of medical instrumentation, imaging, computing and tele-medicine equipment. As more and more new technologies are implemented in the diagnosis of diseases and treatment of patients, there is an increased demand for highly skilled biomedical engineers.

The biomedical engineering specialization is a five-year program, designed to provide students with a thorough knowledge and understanding of the design principles, theory of operation and applications of modern biomedical diagnostic and therapeutic equipment, devices and processes.

Aims and Objectives

The general aims of the Biomedical Engineering program are:

- to provide education in Biomedical Engineering according to international standards within the rules and regulations set by the UAE Ministry of Higher Education.
- to create an innovative environment that enables students to fulfill their potentials.
- to foster a spirit of self-learning.

Objectives

The objectives of the Biomedical Engineering program are:

- 1- to produce qualified Biomedical engineers.
- 2- to equip students with sufficient knowledge to join the health-care industry as biomedical engineers.
- 3- to equip students with basic scientific research skills.
- 4- to enhance students teamwork abilities.

Admission Requirements

Admission to the Biomedical Engineering requires a UAE secondary school certificate (Science major) or its equivalent with a minimum acceptable percentage of 70%.

For more information please refer to the University admissions policy

1

Graduates will be qualified to work in the following areas:

- Health-Care Facilities

Biomedical engineers are ideally suited to act as design and maintenance engineers for health-care facilities such as hospitals and clinics.

- Manufacturer's Representatives and Sale's Engineers.

The biomedical engineering graduates have the special knowledge required to communicate with a variety of health-care professionals, which enables them to act as representatives for manufacturers and retailers of medical equipment and services.

- Design and Development

Biomedical Engineering graduates can also join companies and can successfully participate in the design, development and testing of medical devices and systems.

- Management

Biomedical engineers have the background in technology to allow them to be trained as managers in organizations which deal with health-care and biological products.

- Consultancy

Biomedical engineering graduates can also join consultancy agencies that provide advice for health authorities regarding standards and quality evaluation of clinical facilities and services.

2

The Bachelor of Science Degree is awarded upon the fulfillment of the following:

- 1- successful completion of all courses in the study curriculum(161 Cr. Hrs.).
- 2- successful completion of 4 months engineering training (4 Cr. Hrs.).
- 3- a final AGPA (Accumulative Grade Points Average) of not less than 2.0 (on a 4.5 scale).

BIOMEDICAL ENGINEERING CURRICULUM (165 Cr. Hrs.)

The Biomedical curriculum comprises of the following:

1. University Requirements (Compulsory)	15 Cr. Hrs.
2. University Requirements (Elective)	03 Cr. Hrs.
3. Faculty Requirements	42 Cr. Hrs.
4. Specialization Requirements (Compulsory)	83 Cr. Hrs.
5. Specialization Requirement (Elective)	18 Cr. Hrs.
6. Engineering Training	04 Cr. Hrs.

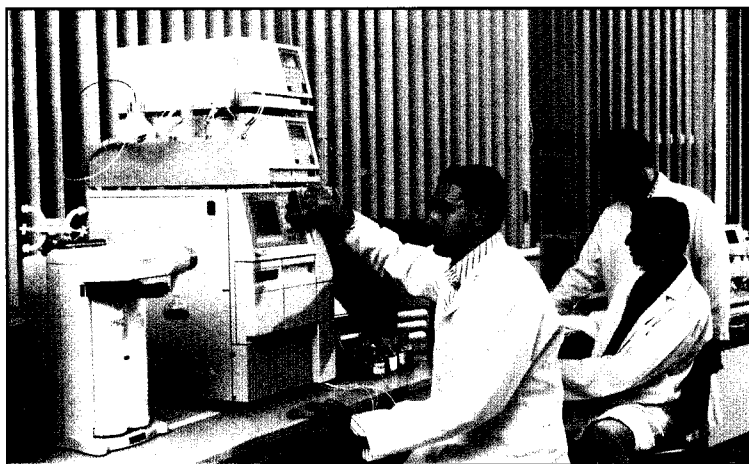
3-1 UNIVERSITY REQUIREMENTS (15 Cr. Hrs.)

1. Statistics (3 Cr. Hrs.)

Course Title	Course	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Statistics	130130	3	2	2	—
2. I.T. Fundamentals	310100	3	2	2	—
3. Islamic Culture	500110	3	3	—	—
4. Arabic Language	500120	3	3	—	—
5. English Language I	600101	3	3	—	—

2. English II

Course Title	Course	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Scientific Pioneering and Patents	150150	3	3	—	—
2. History of Science in Islam	150151	3	3	—	—
3. General Psychology	500130	3	3	—	—
4. Research Methodology	514328	3	3	—	—
5. Environment, Water and Energy	700100	3	3	—	—



3-2 FACULTY REQUIREMENTS (42 Cr. Hrs.)

Course Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Mathematics I	110100	3	3	—	—
2. Mathematics II	111122	3	3	1	110100
3. Mathematics III	111223	3	3	1	111122
4. Mathematics IV	112224	3	3	1	111223
5. Mathematics V	112325	3	3	1	112224
6. Physics I	121131	4	3	2	—
7. Physics II	121132	4	3	2	—
8. Chemistry	141211	3	3	2	—
9. Engineering Graphics	201102	3	2	2	—
10. Engineering Management	202504	2	2	—	203403
11. Engineering Economy	203403	2	2	—	130130
12. Engineering Mechanics	232203	3	3	1	111122, 121131
13. Intro. to Structured Program	213132	3	2	2	213120
14. English Language II	600102	3	3	—	610110



Course Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Introduction to Biochemistry	284250	3	3	2	141211
2. Biology	284251	3	3	2	—
3. Electromagnetic and Wave Propagation	210312	3	3	1	111223, 121132
4. Computer Interfaced Sys.	213531	3	3	2	213336
5. Power Electronics	216316	3	3	2	211313
6. Biomaterials Engineering	218301	3	3	1	121131
7. Biomechanics	218402	3	3	1	284353, 284252, 111223, 232203
8. Electrophysiology	218462	3	3	2	211313, 284252
9. Medical Instrumentation	218486	3	3	2	218462, 210222
10. Nuclear Medicine	218494	3	3	1	218402, 284252
11. Medical Imaging Systems	218495	3	3	1	218494, 214441
12. Biomedical Safety	218492	3	3	1	218486, 218494
13. Radiograph Anatomy	284252	3	3	2	284251
14. Physiological Systems	284353	3	3	2	284252, 284251
15. Project I	218390	3	1	4	Approval of Faculty
16. Project II	218591	2	1	2	218390
17. Project III	218595	3	1	4	218591
18. Engineering Training	210300	4	—	—	—
19. Electrical Ins. & Measurements	210222	3	3	2	215201
20. Electronic Devices and Circuits I	211212	3	3	2	215201
21. Electronic Devices and Circuits II	211313	3	3	2	211212
22. Digital Signal Processing	212531	3	3	2	214441
23. Logic Design	213233	3	3	2	213120
24. Computer Org. & Assembly	213336	3	3	2	213233
25. Control Systems	214342	3	3	2	111223, 210222
26. Signals and Systems	214441	3	3	2	112224
27. Circuit Analysis I	215201	3	3	2	121132
28. Circuit Analysis II	215202	3	3	2	215201
29. Electronic Inst. & Measurements	211305	3	3	2	210222, 211212

Elective Courses (18 Cr. Hrs.)

Course Title	Course Code	Cr. Hrs.	Lec.	Tut/Lab.	Prerequisite
1. Biomedical Modeling and Simulation	218588	3	3	2	—
2. Laser and Optical Electronics	211517	3	3	1	210312, 211212
3. Industrial Control Systems	214443	3	3	2	213336, 214342
4. Artificial Organs	218491	3	3	2	218402
5. Artificial Neural Networks	218493	3	3	1	112325, 218486
6. Nuclear Medicine Equipment	218587	3	3	1	218486
7. Image Processing Systems	218589	3	3	2	211305
8. Computer Application in Medicine	218596	3	3	2	213120
9. Biomedical Meas. & Data Acquisition	218597	3	3	2	212531
10. Medical Instrumentation Systems	218487	3	3	1	218486
11. Advanced Bio-Mechanics	218597	3	3	1	218402
12. Comp. Networks for Health Care-Systems	218598	3	3	2	213531
13. Selected Biomedical Topics	218599	3	3	—	—



Table 1.1: First Semester

Table 1.1: First Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut/Lab.	Prerequisite
110100	Mathematics I	3	3	—	—
610110	English Language I	3	3	—	—
121131	Physics I	4	3	2	—
310100	I.T. Fundamentals	3	2	2	—
141211	Chemistry	3	3	2	—
xxxxxx	University Requirement	3	—	—	—
Total		19			

Table 1.2: Second Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut/Lab.	Prerequisite
111122	Mathematics II	3	3	1	110100
610120	English Language II	3	3	—	610110
121132	Physics II	4	3	2	—
201102	Engineering Graphics	3	2	2	—
284250	Introduction to Biochemistry	3	3	2	141211
xxxxxx	University Requirement	3	—	—	—
Total		19			

Table 1.3: Third Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut/Lab.	Prerequisite
111223	Mathematics III	3	3	1	111122
215201	Circuit Analysis I	3	3	2	121132
213233	Logic Design	3	3	2	213120
232203	Engineering Mechanics	3	3	1	111122, 121131
284251	Biology	3	3	2	—
xxxxxx	University Requirement	3	—	—	—
Total		18			

Engineering 100

Course Code	Title	Cr. Hrs.	Lec.	Tut/Lab.	Prerequisite
112224	Mathematics IV	3	3	1	112223
215202	Circuit Analysis II	3	3	2	215201
210222	Electrical Instrum. and Measurements	3	3	2	215201
284252	Radiograph Anatomy	3	3	2	284251
211212	Electronic Devices & Circuit I	3	3	2	215201
xxxxxx	University Requirement	3	—	—	
Total		18			

Engineering 200

Course Code	Title	Cr. Hrs.	Lec.	Tut/Lab.	Prerequisite
112325	Mathematics V	3	3	1	112224
211313	Electronic Devices and Circuits II	3	3	2	211212
213336	Computer Org. & Assembly	3	3	2	213233
284353	Physiological Systems	3	3	2	284252, 284251
211305	Electronic Inst. and Measurements	3	3	2	210222, 211212
213132	Intro. to Structured Program	3	2	2	213120
Total		18			

Engineering 300

Course Code	Title	Cr. Hrs.	Lec.	Tut/Lab.	Prerequisite
214342	Control Systems	3	3	2	111223, 210222
210312	Electromag. and Wave Propagation	3	3	1	111223, 121132
216361	Industrial Electronics	3	3	2	211313
218462	Electrophysiology	3	3	2	211313, 284252
218390	Project I	3	1	4	Approval of Faculty
Total		15			

Engineering 400

Course Code	Title	Cr. Hrs.	Lec.	Tut/Lab.	Prerequisite
218402	Biomechanics	3	3	1	284353, 284252
203403	Engineering Economy	2	2		130130
214441	Signals & Systems	3	2	2	112224
218301	Biomaterial Engineering	3	3	1	121131
xxxxxx	Specialization Elective	3	3	1	xxxxxx
Total		14			

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
218486	Biomedical Instrumentation	3	3	2	218462, 210222
218494	Nuclear Medicine	3	3	1	218402, 284252
212551	Digital Signal Processing	3	3	2	214441
xxxxxx	Specialization Elective	3	3	1	xxxxxx
xxxxxx	Specialization Elective	3	3	1	xxxxxx
Total		15			

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
218495	Medical Imaging Systems	3	3	1	214441
213531	Computer Interfaced Sys.	3	3	2	213336
xxxxxx	Specialization Elective	3	3	1	xxxxxx
xxxxxx	Specialization Elective	3	3	1	xxxxxx
218591	Project 2	2	1	2	218390
Total		14			

Fourth Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
218492	Biomedical Safety	3	3	1	218486, 218494
202504	Engineering Management	2	2	-	203403
xxxxxx	Specialization Elective	3	3	1	xxxxxx
218595	Project3	3	1	4	218591
Total		11			
210300	Engineering Training	4	-	-	

ARCHITECTURAL ENGINEERING PROGRAM

Introduction

Architecture is the science and art of shaping the built environment and erection of habitable and enjoyable communities. The Architectural engineering program is a five-year course that equips the student with sound knowledge and understanding in building design, landscape design, structure, construction and heritage conservation as well as many other related subjects.

Mission

To provide quality education to Architectural Engineering students in accordance with international standards, and to prepare them for immediate employment in the job market.

Objectives

The main objectives of the Architectural Engineering Program are to graduate students who are able to:

1. practice Architectural Engineering to serve the community.
2. analyze Architectural Engineering problems and offer alternative solutions.
3. collect required data, interpret it, and deduct conclusion.
4. develop and design systems for the built environment.
5. communicate effectively in English.
6. recognize that learning is a life-long process.
7. work as efficient team members in multi-disciplinary teams.
8. contribute in improving the built environment by fulfilling their professional and ethical responsibilities.
9. understand the impact of their designs on the environment.

Career Opportunities

Because of the multidisciplinary nature of the curriculum, graduates are qualified to work in various areas. They can work as designers and construction managers or join community, city planning agencies and governmental authorities. They can also become building contractors.

In general graduates are trained for problem solving which enable them to adapt to many other related jobs in public and private sectors.

Graduation Requirements

The Bachelor of Science in Architectural Engineering degree is awarded upon fulfillment of the following:

1. successful completion of all courses in the prescribed curriculum (165 Cr. Hrs.)
2. successful completion of 4 months engineering training (4 Cr. Hrs.).
3. a final AGPA (Accumulative Grade Points Average) of not less than 2.0.



ARCHITECTURAL ENGINEERING CURRICULUM (169 Cr. Hrs.)

The Architectural curriculum comprises of the following:

1. University Requirements (Compulsory)	15 Cr. Hrs.
2. University Requirements (Elective)	03 Cr. Hrs.
3. Faculty Requirements	13 Cr. Hrs.
4. Specialization Requirements (Compulsory)	119 Cr. Hrs.
5. Specialization Requirements (Elective)	15 Cr. Hrs.
6. Engineering Training	4 Cr. Hrs.

Course Title	Course Code	Cr. Hrs.	Lec.	Tut/Lab.	Prerequisite
1. Statistics	130130	3	2	2	—
2. I.T. Fundamentals	310100	3	2	2	—
3. Islamic Culture	500110	3	3	—	—
4. Arabic Language	500120	3	3	—	—
5. English Language I	600101	3	3	—	—

Course Title	Course Code	Cr. Hrs.	Lec.	Tut/Lab.	Prerequisite
1. Scientific Pioneering and Patents	150150	3	3	—	—
2. History of Science in Islam	50151	3	3	—	—
3. General Psychology	500130	3	3	—	—
4. Research Methodology	514328	3	3	—	—
5. Environment, Water and Energy	700100	3	3	—	—

Course Title	Course Code	Cr. Hrs.	Lec.	Tut/Lab.	Prerequisite
1. Physics I	121131	4	3	2	—
2. Engineering Graphics	201102	3	2	2	—
3. Mathematics I	110100	3	3	—	—
4. English Language II	600102	3	3	—	610110

4-3 SPECIALIZATION REQUIREMENTS FOR ARCHITECTURE

Compulsory Courses (17 Courses)

Course Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Introduction to Design	200101	3	1	4	—
2. Perspective, Shade & Shadow	200102	3	1	4	201102
3. Psychology of Design	200457	3	2	2	—
4. CAAD I	270234	3	4	0	213120/201102
5. CAADII	270335	3	1	4	270234
6. Freehand Drawing	290103	4	2	4	—
7. Architectural Design I	270102	4	2	4	200101
8. Architectural Design II	270203	4	2	4	270102
9. Surveying for Architects	275203	2	1	2	—
10. Architectural Design III	270204	5	2	6	270203
11. Structural Design for Architects I	275204	3	2	2	—
12. Architectural Design IV	270305	5	2	6	270204
13. Structural Design for Architects II	275305	3	2	2	275204
14. Architectural Design V	270306	5	2	6	270305
15. Architectural Design VI	270407	5	2	6	270306
16. History & Theory of Architecture I	270213	3	3	—	—
17. History & Theory of Architecture II	270214	3	3	—	270213
18. History & Theory of Architecture III	270315	3	3	—	270214
19. History & Theory of Architecture IV	270316	3	3	—	270315
20. Building Construction I	271223	3	2	2	271223
21. Building Construction II	271224	3	2	2	—
22. Building Construction Technology	271325	3	2	2	271224
23. Working Drawing I	271326	3	1	4	271325
24. Working Drawing II	271427	3	1	4	271326
25. Lighting & Acoustics for Architects	271447	2	2	—	271224
26. Architecture in Hot Climate	270243	3	3	—	—
27. Active Thermal Environmental Control	270447	2	2	—	—
28. Housing Design & Theory	270346	3	2	2	—
29. Landscape Architecture	270356	3	2	2	—
30. Urban Planning	270458	3	3	—	270356
31. Urban Design	270459	5	2	6	270356
32. Heritage Conservation	270468	3	2	2	—
33. Architectural Practice	270559	3	3	—	—

Course Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
34. Graduation Project I	270589	5	3	4	270407
35. Graduation Project II	270590	5	1	8	270589
36. Engineering Training	210300	4	—	—	270234

Electives

Course Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Selected Topics in Architecture	273500	3	3	—	—
2. Interior Design & Coloring	273501	3	1	4	—
3. Real Estate Development (Management)	273502	3	3	—	—
4. Economics	273503	3	2	2	—
5. Photography	273504	3	1	4	—
6. Perspective & Delineation	273505	3	1	4	201102
7. Advanced C/AAD Applications	273506	3	1	4	270234
8. Research & Design Methods	273507	3	3	—	—
9. Geographic Information Systems - (GIS)	273508	3	1	4	270234



Third Semester

First Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
201102	Engineering Graphics	3	2	2	
600101	English Language I	3	3		
200101	Introduction to Design	3	1	4	-
290103	Freehand Drawing	4	2	4	
121131	Physics I	4	3	2	
Total		17			

Second Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
270102	Architectural Design I	4	2	4	200101
200102	Perspective, Shade & Shadow	3	1	4	201102
600102	English Language II	3	3		610110
110100	Mathematics I	3	3		
310100	I.T. Fundamentals	3	2	2	
Total		16			

Third Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
270203	Architectural Design II	4	2	4	200102
270213	History & Theory of Architecture I	3	3		—
271223	Building Construction I	3	2	2	-
275203	Surveying for Architects	2	1	2	-
270243	Architecture in Hot Climate	3	3	—	
xxxxxx	University Requirement	3	—	—	—
Total		18			

Fourth Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
270204	Architectural Design III	5	2	6	270203
270214	History & Theory of Architecture I	3	3	—	270213
271224	Building Construction II	3	2	2	271223
275204	Structural Design for Architects	2	2	—	
270334	CAAD I	3	1	4	201102, 213120
xxxxxx	University Requirement	3		—	
Total		20			

First Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
270305	Architectural Design IV	5	2	6	270204
270315	History & Theory of Architecture III	3	3	—	270214
271325	Building Construction Technology	3	2	2	271224
275305	Structural Design for Architects II	3	2	2	275204
270335	CAADII	3	1	4	270234
XXXXXX	University Requirement	3	—	—	—
Total		20			

Second Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
270306	Architectural Design V	5	2	6	270305
270316	History & Theory of Architecture IV	3	3	—	270315
271326	Working Drawing I	3	1	4	271325
270346	Housing Theory & Design	3	2	2	—
270356	Landscape Architecture	3	2	2	—
Total		17			

Seventh Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
270407	Architectural Design VI	5	2	6	270306
271447	Lighting & Acoustics for Architects	2	2	—	271224
271427	Working Drawing II	3	1	4	271326
270447	Active Thermal Environmental Control	2	2	—	—
200457	Psychology of Design	3	2	2	—
Total		15			

Eighth Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
270458	Urban Planning	3	3	—	270356
270459	Urban Design	5	2	6	270356
270468	Heritage Conservation	3	2	2	—
XXXXXX	University Requirement	3	3	—	—
Total		14			

Ninth Semester:

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
270589	Graduation Project I	5	3	4	270407
270559	Architectural Practice	3	3	---	-
2735xx	Specialization Elective	3	---	-	-
2735xx	Specialization Elective	3	---	---	-
Total		14			

Tenth Semester:

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
270590	Graduation Project II	5	1	8	270589
2735xx	Specialization Elective	3	-	---	---
2735xx	Specialization Elective	3	---	---	-
2735xx	Specialization Elective	3	--	-	-
Total		14			
210200	Engineering Training	4	-	-	--



INTERIOR DESIGN PROGRAM

The Interior Design program is an eight-semester course designed to enhance students' artistic potential and equip them with knowledge and skills of dealing with interior spaces, furniture design, lighting, acoustics, and designing drawings.

Provide quality education and develop artistic skills of students in accordance with local and international standards. Also, to prepare the graduates for professional interior design practice in the UAE and the region.

The program is designed to develop and enhance the artistic abilities of students by giving them necessary aesthetic design experience. The program will prepare the students to provide services to the community keeping in view its interests and needs. It provides a strong foundation and helps the students to achieve their full potential. Also to develop a self-motivated approach to perform work in a team and the utilization of vision in the work place.

The objectives of the Interior Design Program are to graduate students who are able to:

1. skillfully practice Interior Design to serve individuals as well as groups;
2. recognize needed environmental factors such as cultural, social, and traditional heritage aspects;
3. accommodate changes taking place in Interior Design, regionally and globally;
4. be familiar with various design styles, techniques and their historical development throughout the centuries;
5. collect data, interpret it and carry out the experimentation needed for

the local community;

6. communicate effectively in English;

7. recognize that learning is a life-long process;

8. work as efficient team members in multi-professional groups;

CAREER OPPORTUNITIES

Interior design graduates can join interior design companies, building construction contractors, furniture design companies, TV stations, banks, etc.

GRADUATION REQUIREMENTS

- 1- Successful completion of all courses in the study curriculum i.e. (134 Cr. Hrs.).
- 2- A final AGPA (Accumulative Grade Points Average) of not less than 2.0.



INTERIOR DESIGN CURRICULUM (134 Cr. H.)

The Interior Design curriculum comprises the following:

- | | |
|---|-------------|
| 1. University Requirements (Compulsory) | 15 Cr. Hrs. |
| 2. University Requirements (Elective) | 03 Cr. Hrs. |
| 3. Faculty Requirements | 13 Cr. Hrs. |
| 4. Specialization Requirements (Compulsory) | 91 Cr. Hrs. |
| 5. Specialization Requirements (Elective) | 12 Cr. Hrs. |

1-5 UNIVERSITY REQUIREMENTS (23 Cr. Hrs.)

Course Title	Course Code	Cr. Hrs.	Lec.	Tut/Lab.	Prerequisite
1. Statistics	130130	3	2	2	—
2. I.T. Fundamentals	310100	3	2	2	—
3. Islamic Culture	500110	3	3	—	—
4. Arabic Language	500120	3	3	—	—
5. English Language I	600101	3	3	—	—

Elective Courses (3 Cr. Hrs.)

Course Title	Course Code	Cr. Hrs.	Lec.	Tut/Lab.	Prerequisite
1. Scientific Pioneering and Patents	150150	3	3	—	—
2. History of Science in Islam	150151	3	3	—	—
3. General Psychology	500130	3	3	—	—
4. Research Methodology	514328	3	3	—	—
5. Environment, Water and Energy	700100	3	3	—	—

5-7 FACULTY REQUIREMENTS (13 Cr. H.)

Course Title	Course Code	Cr. H.	Lec.	Tut/Lab.	Prerequisite
1. Engineering Graphics	201102	3	2	2	—
2. Engineering Management	202504	2	2	—	203403
3. Engineering Economy	203403	2	2	—	—
4. Mathematics I	110140	3	3	—	—
5. English Language II	600102	3	3	—	610110

Table 1.1: Semester 1

Course Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Introduction to Design	200101	3	1	4	—
2. Perspective, Shade & Shadow	200102	3	1	4	201102
3. Psychology of Design	200457	3	2	2	—
4. CAAD I	270234	3	4	0	213120
5. CAADII	270335	3	1	4	270234
6. Freehand Drawing	290103	4	2	4	—
7. Colour in Interior Design	290105	3	2	2	—
8. Interior Design I	290111	4	1	6	200101
9. Workshop	290211	3	1	4	200102
10. Interior Design II	290212	4	1	6	290111
11. Interior Design III	290213	4	1	6	290212
12. History of Interior Design I	290214	3	3	—	—
13. History of Interior Design II	290215	3	3	—	290214
14. Interior Construction I	290216	3	2	2	201102, 290111
15. Furniture Design	290217	3	1	4	290111
16. Interior Design IV	290314	4	1	6	290213
17. Interior Design V	290315	4	1	6	290314
18. Textile and Accessories	290316	3	2	2	290105
19. Interior Construction II	290317	3	2	2	290212, 290216
20. Interiors in the UAE	290318	3	3	—	290213
21. Working Drawing	290319	3	2	2	290314
22. Interior Design Practical Training	290320	4	—	—	—
23. Interior Landscape	290321	3	1	4	290213
24. Lighting & Acoustics for Interior Designers	290322	3	2	2	290314
25. Practice in Interior Design	290323	3	3	—	290313
26. Graduation Project I	298490	3	2	2	290315
27. Graduation Project II	298495	6	2	8	298490

Table 1.2: Semester 2 (12 Cr. Hrs.)

Course Title	Course Code	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
1. Selected Topics in Furniture Design	290326	3	1	4	290217
2. Islamic Interiors	290480	3	3	—	—
3. Interior Photography	290481	3	2	2	—
4. Advanced CAAD Applications	290482	3	1	4	270320
5. Theory of Interior Design	290483	3	3	0	290212
6. Selected Topics in Interior Design	290484	3	2	2	290212

Study Plan for the Interior Design Program

First Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
201102	Engineering Graphics	3	2	2	
600101	English Language I	3	3	-	
200101	Introduction to Design	3		6	
310100	I.T. Fundamentals	3	2	2	
290103	Freehand Drawing	4	2	4	
Total		19			

Second Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
290111	Interior Design I	4	1	6	200101
290105	Color in Interior Design	3	2	2	
200102	Perspective, Shade & Shadow	3	1	4	201102
600102	English Language II	3	3		
110140	Mathematics	3	3	1	
xxxxxx	University Requirement	3	3		
Total		19			



Interior Design I

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
290212	Interior Design II	4	1	6	290111
290214	History of Interior Design I	3	3	—	—
290211	Workshop	3	1	4	200102
290217	Furniture Design	3	1	4	290111
xxxxxx	University Requirement	3	3	—	—
Total		16			

Interior Design II

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
290213	Interior Design III	4	1	6	290212
290215	History of Interior Design II	3	3	—	290214
290216	Interior Construction I	3	2	2	201102, 290111
200457	Psychology of Design	3	2	2	—
270234	CAAD I	3	2	2	213120
xxxxxx	University Requirement	3	3	—	—
Total		19			

Interior Design III

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
290314	Interior Design IV	4	1	6	290213
290316	Textile and Accessories	3	2	2	290105
290317	Interior Construction II	3	2	2	290212, 290216
290318	Interiors in the UAE	3	3	—	290213
270335	CAADII	3	1	4	270234
290323	Practice in Interior Design	3	3	—	290313
Total		19			

Sixth Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
290315	Interior Design V	4	1	6	290314
290319	Working Drawing	3	2	2	290314
290321	Interior Landscape	3	1	4	290213
290322	Lighting & Acoustics for I. Designers	3	2	2	290314
2903xx	Specialization Elective	3	—	—	—
xxxxxx	University Requirement	3	3	—	—
Total		19			

Seventh Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
298490	Graduation Project I	3	2	2	290315
203403	Engineering Economy	2	2	—	—
2904xx	Specialization Elective	3	—	—	—
2904xx	Specialization Elective	3	—	—	—
Total		11			

Eighth Semester

Course Code	Title	Cr. Hrs.	Lec.	Tut./Lab.	Prerequisite
298495	Graduation Project II	6	2	8	298495
202504	Engineering Management	2	2	—	203403
2904xx	Specialization Elective	3	—	—	—
Total		11			

COURSE DESCRIPTIONS

10104

10104-1

Analytical Geometry in Plane; polar coordinates; distance between points. Vectors; straight lines and conic sections. Analytical Geometry in space. Cartesian; spherical and cylindrical coordinates vector space. Linear algebra. Matrices; matrix Algebra. Determinants. Cramer's rule; inverse of a matrix. Functions of one variables. Limits. Continuity; elementary functions. Differentiation, definition, rules; derivatives of elementary functions; parametric functions; mean value theorem. Taylor theorem. Taylor series. minimum and maximum values. Magnetic field and magnetic force. Magnetic induction and Faraday's law. Electromagnetic waves and Maxwell's Equation; Ray optics. Wave optics.

10105

10105-1

Complex numbers. Differentiation's. Simple integration techniques and applications. Multiple integration's. Vector analysis.

11120

MA 11120-1

Ordinary differential equations of the first order. Ordinary differential equations. System of differential equations. Power series method of solving differential equation. Laplace transform.

11121

MA 11121-1

Sequence and Series: Sequence of real numbers, bounded and monotonic sequences. Infinite series, series with non-negative terms, absolute and conditional convergence, convergence tests, differentiation and integration of power series. Fourier Series and Integrals: Periodic functions, Fourier series, even functions, complex form of Fourier series, the Fourier integrals, Fourier transform. Complex integrals: Line integral in the complex plane, Cauchy integral theorem, Cauchy integral formula, the derivative of analytic functions, Taylor and Laurents series: Taylor series of elementary functions, Laurent series, Zeros, Poles and essential singularities, behavior of functions at infinity, branch points, removals of singularities, Integration by the methods of residues: Residues, The residue theorems, evaluation of integrals by the residue theorem, contour integration.

11122

MA

Partial Differential Equations (P.D.E.): First order P. D. E. a- linear and non-linear. Second order P.D.E. Special Functions, Gamma,

Betta, Green's functions. Bessel's Equation and orthogonality. Legendre's Polynomials. Introduction to Calculus of variation. Introduction to difference Equations.

11123

PHYSICS I

Vector Algebra. Motion in two dimensions: projectiles and circular motion. Motion along a straight line, free falling bodies. Newton's laws of motion; Work and energy. Conservation of energy. Work and energy. Linear momentum and collision. Rotational motion. Mechanical waves. Heat and the first law of thermodynamics.

11127

PHYSICS I

Electric charges and Coulomb's law. Electric Field and Gauss's law. Electric Potential energy and electrical Potential. Capacitors and dielectrics. DC circuits and Kirchhoff's law. Magnetic field and magnetic force. Magnetic induction and Faraday's law. Electromagnetic waves and Maxwell's Equation. Ray optics. Wave optics.

120120

STATISTICS

Meaning and role of statistics. Frequency Distributions. Descriptive measures. The normal distribution. Simple linear regression and correlation analysis.

141211

GENERAL CHEMISTRY

The periodic table and the structure and properties of elements. Types of bonds. Chemistry of metals. Solutions, solubility, concentration and acid base equilibrium. Introduction to organic chemistry.

201102

ENGINEERING GRAPHICS

Introduction to design concept through application of engineering graphics. Drawing Instruments. Lettering, and geometrical constructions. Orthographic projection: First angle orthographic projection. Third angle orthographic projection. Sectioning. Dimensioning. Freehand sketching, pictorial drawing; Isometric; Oblique.

202501

ENGINEERING MANAGEMENTS

Introduction to management theories, Human resource managements, Types and requirement of management organization. Finan-

cial accounting, financial statement analysis, Industrial accounting, Marketing, marketing analysis.

203403

ENGINEERING ECONOMY

Definitions, principles and methodology. Principles of money-time relationships: simple and compounded interest, Interest formulas for present and future value, Nominal and effective interest rates, Annual compounding, Algebraic relationships, Interest rate, and number of years calculation, Discrete compounding, Continuous compounding, Applications of money-time relationships, Decision making process, Use of methods of engineering Economy in comparing alternatives projects.

210222

ELECTRICAL INSTRUMENTATION AND MEASUREMENTS

Basic measurement concepts: Definition (sensitivity, resolution, error), Error types, Significant figures, Accuracy, precision and tolerance, Measurement: Units and dimensions, fundamental and derived units, Logarithmic response units, Standards for electrical quantities, DC indicating meters: The permanent magnet moving coil, The galvanometer, DC ammeters, DC voltmeters, Meter, calibration, Series and shunt ohmmeters, Volt-ohm-milliamperere, VOM meters, AC indicating meters: Rectifier instruments, The thermocouple meter, The iron-vane meter, The electro-dynamometer, Single phase and poly-phase power measurement, Power factor meters, Energy measurement - the watt-hour meter DC and AC bridges: Resistance bridges (Wheatstone, Kelvin), Capacitance bridges (Schering bridge), Inductance bridges (Maxwell, Hay, Owen), Automatic bridges.

210511

ELECTRIC AND ELECTROMAGNETICS

Vector analysis, Divergence Theorem, Energy & Potential, Electrostatic fields, Coulomb's Law, Gauss's Law, Dielectrics, Conductors, Boundary Conditions, Capacitance, Laplace's Equation, Steady Magnetic Fields, Biot-Savart's Law, Ampere's Law, Circulation, Stock's Theorem, Magnetic material's, Inductance, Maxwell's Equations in Static Fields.

210542

ELECTRONIC DEVICES AND WAVE PROPAGATION

Time varying fields & Maxwell's equations, Uniform Plane Wave Propagation, Plane wave propagation in Perfect dielectrics, Lossy dielectrics, Good Conductors, Poynting Vector and average power,

Polarization of electromagnetic waves, Reflections and refraction of plane waves, Standing waves, and standing wave ratio, Transmission line theory, Graphical solution, Smith Charts.

210543

SEMICONDUCTOR DEVICES

Properties of intrinsic and extrinsic semiconductors: Mobility and electrical conductivity, Diffusion carriers, Energy bands, The p-n junction diode: Theory of operation and characteristics, Zener diode, Varactors and Schottky diodes, The diode as a circuit element, Diode applications, The Bipolar junction transistor: Theory of operation, BJT characteristics, The Ebers-Moll model, Large signal models, The BJT as a switch, The BJT as Amplifier: Biasing and bias stability, Small signal models, Linear analysis of transistor circuits.

210544

MEASUREMENTS WITH RANDOM ERRORS

Measurements with random errors, Correlation of data Noise types & measurement, Interference, Shielding and filtering, The frequency counter, High & Low-frequency measurement, Measuring phase difference and rise time, Calibration of frequency and time interval meters, The electronic analog voltmeter, Digital voltmeters, Digital multi-meters, The radio frequency voltmeter, RF power measurements, Passive frequency measurements, Fiber-optic test equipment, Low-frequency sine wave generator, High-frequency signal generators, Function generators, Sweep frequency generators, Pulse generators, Waveform analyzers.

210545

TRANSISTOR CIRCUITS

Small signal analysis of BJT: Hybrid model, Transistors configuration, small signal analysis, Junction Field Effect Transistor: Principle of operation, I-V, Characteristics, Small signal analysis, applications, Metal-Oxide Semiconductor Capacitor: Principle of operation, C-V characteristics, Metal-Oxide Semiconductor FET: Principle of operation, I-V: Characteristics, Small signal analysis, Applications; Transistor at high frequencies: Equivalent circuit, applications; Feedback amplifiers and Oscillator circuits: Feedback principles, Feedback amplifier circuits, Oscillator circuits.

210546

OP-AMP

Operational Amplifier (Op-Amp) Theory: The difference amplifier, ideal Op-Amp, OpAmp characteristics, Op-Amp Circuits Design:

Mathematical operations, Controlled voltage and current sources, Instrumentation amplifier, OpAmp applications (comparators, clipping, clamping, and rectifying circuit), Active Filters Design: Butterworth and Chebyshev filters, Low-pass and high pass filters, Second and higher order filters design, Rejection and notch filters, State-variable and universal filter design.

UNIT 10 DIGITAL ICs

Digital IC families (characteristics and performances), TTL, CMOS, and CMOS-TTL interfaces, IC applications (RC and timers, monostable, Shift registers), Signal Conditioning and data acquisition: Sample and hold systems, Digital-to-Analog and Analog-to-Digital converters, Logarithmic Amplifier, Analog Multiplier, Frequency-to-voltage and Voltage-to-Frequency converters.

UNIT 11 MICROWAVE DEVICES

TE & TM Rectangular, and Circular Wave guides, TEM- Guided Waves, Parallel plane lines, Coaxial lines, Strip lines, and Microstrip lines, Scattering Parameters and Matching Techniques, Passive Microwave Devices: Terminators, Attenuators, Phase-changers, Directional Couplers, Hybrid

UNIT 12 POWER DEVICES

Analog and digital IC's, Power supplies and regulators, Analog signal conditioning and applications, Measurement systems with LED/LCD displays, Control of high voltage systems and actuators, Applications of commonly used IC's.

UNIT 13 VLSI DESIGN

Practical Considerations, Classification of Scale of Integration, The microelectronics Field, IC design process, The Yield, NMOS, CMOS, TTL, and ECL basic logic gate circuits, Dynamic MOS Shift Registers, Ratioless Shift Register Stages Static & Dynamic Random-Access Memory Cells, Charge-Coupled Device (CCD) Integrated- Injection Logic.

UNIT 14

OPTICS AND LASERS

Light, Wave nature of Light, Polarization of Light, Total Internal Reflection, Interference, Diffraction, Blackbody Radiator, Units of Light, Light Emitting Diodes, and Photodetectors, Emission and absorption of radiation, Einstein relations, Population Inversion,

Optical Feedback, Laser Losses, Classes of Lasers, Doped Insulator Lasers, Semiconductor Lasers, Gas Lasers, Liquid Dye Lasers, Laser Modes

UNIT 15

COMMUNICATION DEVICES

Planar Tubes: Construction, performance, pulsed operation, efficiency and gain, Klystrons: Reflex Klystron, two-cavity Klystron oscillators, two-cavity Klystron amplifiers, extended inter-oscillator, multi-cavity amplifiers, noise, and other applications, Travelling Wave Tubes (TWT's): Slow-wave structures, electron gun parameters, magnetic field focusing, and interactive circuits, Crossed Field Tubes: Crossed field interaction mechanism, crossed-field tubes, crossed-field oscillator, and crossed-field amplifiers, Magnetrons, Microwave Semiconductor Devices: Schottky barrier diodes, varactor diodes, PIN diodes, Gunn devices, IMPATT diodes, and microwave bipolar transistors.

UNIT 16

COMMUNICATION SYSTEMS

Radio Communication Systems: Radio Transmitters, Radio Receivers, Communication Channels, Noise, Television Systems: TV Transmitter, TV Receiver, and TV Camera, Telephone Communication Systems.

UNIT 17

COMMUNICATION THEORY

Representation of signals and systems, Amplitude modulation and demodulation, Amplitude modulation Circuits, Angle modulation and demodulation, Angle modulation Circuits, Random Processes and Statistical averages.

UNIT 18

ACOUSTICAL PHENOMENA

Vibrations of strings bars, and membranes, Propagation of sound in fluids, Transmission of sound waves, reflection and refractions, Room acoustics and sound transducers.

UNIT 19

ANTENNA THEORY AND DESIGN

Antenna definition, Antenna types, Radiation Characteristics, Infinitesimal dipole, and small magnetic loops, Short practical dipole, Half-wave dipole, Dipoles, Monopoles, and folded dipoles, Baluns, and Matching techniques, Fundamentals of Arrays, Aperture Antennas.

212/213

INTRODUCTION TO RADAR

Radar fundamentals. Surveillance radar. Studies of atmosphere. Multi-static radar.

212/217

INTRODUCTION TO COMMUNICATIONS

Introduction: Elements of a digital communication system. Pulse-Analog modulation: sampling of analog signals, time-division multiplexing, pulse amplitude modulation, pulse-time modulation. Pulse-digital modulation: Elements of pulse code modulation. Noise in PCM systems. Channel capacity of a PCM system. Differential pulse code modulation. Delta modulation. Adaptive delta modulation. Bandpass Communication System: Elements of a Baseband binary PAM system. Interference baseband shaping. Optimum transmitting & receiving filters for noise immunity. Doubinary and modified Doubinary coding. Baseband M- array PAM systems. Eye pattern. Band-pass data transmission: A model of band-pass data transmission system. Gram-schmidt orthogonalization procedure. Geometric interpretation of signals & noise. Coherent signaling schemes ASK, FSK and PSK. Differential Phase Shift Keying (DPSK).

212/221

INTRODUCTION TO COMMUNICATIONS

Introduction: Communications and networking. Computer communications architecture. Standards and organization. Data Communications: Analog and digital data transmission. Transmission media. Data encoding. Digital data communication techniques. Asynchronous and synchronous transmission. Error detection. Interfacing. Data link control. Multiplexing. Data Communication Networking: Communication Networking techniques, routing, control signaling, traffic control and error control of the following networks. Computer communications architecture: Protocols and architecture. Network access and transport protocols. Internetworking. Integrated services digital network (ISDN): Transmission, user access, and protocols. Junctions. Faraday Rotation and Ferrite Materials. Circulators, and Phase-Changer

212/222

INTRODUCTION TO COMMUNICATIONS

Overview of satellite systems. Intelsat, U.S Domestic satellites. Orbits and Launching methods. Kepler's Laws. Geostationary Orbit. The Space Segment. Power supply. Attitude control, Transponders,

Antenna subsystem. The Earth Segment. Master antenna TV System. Community. Antenna TV System. Transmit-Receive Earth Stations. Baseband signals and Modulation. The Space link. Transmission losses. System noise. Interference. Satellite Access.

Overview and applications of digital signal processing. Fourier analysis for discrete-signals. The Discrete Fourier Transform. Computation of DFT. The Z Transform. Design of IIR digital filters. Design of FIR digital filters. Realization of digital Filters. Finite precision effects. Implementation of digital filters.

Introduction to cellular mobile radio systems. The cellular concept system design fundamentals. Fading. Multiple access techniques. Modern wireless communication systems. GSM.

Overview of the computer. Architecture of the computer. Components of a computer. Data Representation and Numbering Systems. Binary Arithmetic. Examples of Operating Systems. Flow charts and algorithms. Programming in a high level programming language.

Introduction: Simple C program, the grammatical rules in C, reserved words and the layout of a program. Variables and declarations (float, integer, char) FOR-statements WHILE statement. The IF statement and more complicated conditions. The GO TO statement. The SWITCH statements. Arrays. Multi dimensional arrays, and strings. Functions. File Types. Structures. Records, and pointers.

Combinational logic networks. Boolean algebra: Basic theorems and simplification theorems. Sum of product and product of sums forms, and multiplying out and factoring. DeMorgan laws. NAND, NOR operations and duality. Exclusive OR. Exclusive NOR operations. Consensus theorems and algebraic simplification of switching expressions. Combinational Logic design Minterm, maxterm expansions. Karnaugh maps: Two and three variable Karnaugh maps,

Minimum expression and essential prime implicants, Five and six variable Karnaugh maps; Quine-McCluskey method, Multi-level gate networks; Multiple output Networks; Application decoder multiplexers, Read only memory and programmable logic array; Sequential Networks: Flip-flops S-R, J-K, D and clocked; T-F-Counters, Analysis of clocked sequential networks, design and application of integrated circuit IC in sequential network design.

71403

COMPUTER ARCHITECTURE (100 Marks)

Overview of Microprocessors and Buses, CPU Architecture of 8086 and its internal registers, Addressing Modes; Instruction set; Data Movement, Arithmetic and logic, Program control, Program status word and flags, Instruction format, Assembly Language Programming, Modular Programming, Interrupts Programming the micro-processor.

71404

8086/8088 MICROPROCESSOR

8086/8088, 80286, 80486 hardware Specifications, Memory Interface (8, 16, 32 and 64 bit), 3 I/O Interfaces, Programmable parallel I/O interfaces, Programmable Serial Communication, Programmable Timers, Counters and interrupts, Other Interfaces and micro-processor based systems.

71411

DIGITAL SYSTEM DESIGN

Digital system design methods, Top - down design process for implementing combinational logic circuits, (counters, encoders, decoders, multiplexers, demultiplexers), Implementing logic functions for programmable devices (PAL, PLD, PLA), Algorithmic state machines (ASM), Sequential circuits, Single chip arithmetic's logic units, Single chip- microcomputers.

71412

ANALOG SYSTEMS

Open loop and closed loop concepts, Transfer Function, time domain, frequency domain, Differential equations, second order system, damping factor, Position control system, Error types, Root locus method: characteristics, sketch, response, and stability, Frequency responses methods: i-Bode diagram, straight-line approximation, Method of divergences, gain margin and phase margin, stability, ii- Nyquist plot, characteristics, stability criterion N circles, M circles, inverse Nyquist plot, iii-Nichols diagram, Cascade compensation of control systems: transient responses from the root locus, compensation, phase advance compensation, Phase retard, lead-lag compensation.

71413

SIGNALS AND SYSTEMS

Signals and Systems Types and properties, LTI Systems, Fourier Analysis for Continuous time signals and systems, Fourier Transforms (Cont. time FT), Laplace Transform, Z Transform.

71414

INDUSTRIAL CONTROL SYSTEMS

Overview of Programmable Logic Controller, PLC Architecture, Hardware of PLC, Sequential Programming, Ladder Diagrams (Programming and Elements), Timers and Counters, Controller Communications, System Diagnostics and Fault Finding, Applications.

71415

DIGITAL CONTROL SYSTEMS

Overview: Digital control system, The control problem, Servomotor system model, Temperature control system, Laplace transform, Discrete-time system and Z-transform: Discrete-Time systems, The Z and inverse-Z transforms, Simulation diagram & flow graphs, Sampling and reconstruction: Sampled data control system, The ideal samples, Data reconstruction, D/A, AD conversion & S/H, Open-loop Discrete Time Systems: (Z) & (S) Transform, Pulse transfer function, The modified Z- transform, System with time delay, Closed-loop systems: Concepts, Block diagram types, Flow graphs representations, System time-Response characteristics: Systems time- response, System characteristic equations, mapping, steady state accuracy, Stability Analysis Methods: Bilinear transformation, The Routh- Hurwitz criterion, Jury's stability test, Root locus, The bode diagram, Close-loop frequency response, Digital controller Design: Control system specifications, Compensation, Phase compensation, Phase-lead design procedure, PID controller Design, Design by root locus.

71416

CIRCUIT ANALYSIS (10)

Basic Concepts System of units, Basic Quantities, Circuit Elements, DC Resistive Circuits Ohm's Law, Kirchhoff's Laws, Single loop and Node Equations, Resistor Combinations, Network Theorems Linearity, Superposition, Thevenin's and Norton's Theorems, Maximum Power Transfer, Nodal and Loop Analysis Techniques Node equation, loop equation, Network Topologies, Capacitance and Inductance Capacitor, Inductor, Circuits with Series and Parallel Capacitor and Inductor combinations, RL and RC Circuits Basic Equations, Pulse Response, Transient Analysis.

715112

AC CIRCUIT ANALYSIS

Sinusoidal Steady-State analysis: Sinusoidal sources, Phasors, Circuit element in frequency domain, Network theorems in frequency domain, Sinusoidal Steady-State power calculation: Instantaneous, average, and rms power values, Reactive power, Complex power, applications, Three-Phase circuits: Balanced three phase voltages, Analysis of three-phase circuits, Power calculation in three phase circuits, Mutual-Couples circuits: Self and mutual inductances, Linear and ideal transformers, Magnetic coupling and equivalent circuits, Frequency response: Laplace and inverse Laplace transforms, Circuit analysis in s-domain, Steady-state sinusoidal response: Circuits with non-sinusoidal excitation: Impulse function in circuit analysis, Impulse response.

715118

COMPUTER AIDED CIRCUIT DESIGN

Fundamentals of computer aided design, definition, design process, elements, benefits and tools for computer aided design, computer and graphics images, hardware components, input & output device, principles of software design, flow chart and coding, computer solution of non-linear equations, binary search methods, false positer methods, raphsan methods secort methods, Computer Aided Curve design, Splines, easy cad, Pspise, smartwork, microcap, quik roots, matlab, math cad, easy pc.

715116

POWER ELECTRONICS

Introduction to power electronics , thyristor construction and rating, thyristor rectifier circuits, single phase half wave rectifier without free wheel, single phase full wave rectifier without free wheel, Three phase bridge rectifier, half controlled bridge, three phase six step inverter circuit, forced commutation, Methods, paralleled capacitor , MC Murray Bedford circuit, MC Murray circuit, input circuit commutation chopper, pulse width, Modulation, cycloconverter, comparison of cycloconverter and DC link, triac and other devices, converter control, firing circuits.

715120

ELECTROMAGNETIC ENERGY CONVERSION

Magnetic circuits: Introduction, magnetic materials and excitation, introduction to transformers, no-load and load conditions, equivalent circuit approximate and exact, Phase transformers: 3-phase circuit, 3-phase and auto transformers, Electromechanical energy con-

version principles: right hand rule, left hand rule, whiplash rule, energy balance, force, multiply excited magnetic field systems, DC generators: types, generated emf, losses, generators in parallel, motors, motor equation torque, speed, characteristics, regulation, Synchronous machines generators/ motors, Construction of stator and rotor, constant speed, rotating MMF torque equation, Synchronous reactance, open and short circuit characteristics, load angle, compound curves and V curves, excitation supplies and parallel operation, synchronization, damper windings, Poly- and single-phase induction machines: Operation principles, slip, Equivalent circuit, No load and locked rotor tests, Torque-speed characteristic, Motoring and generating characteristics.

715121

BIO-MATERIALS

Basic Concepts, Introduction to Major Considerations for Biomaterials, Biocompatibility, Examples of applications: Structure of Solids: Types of Bonds: Crystalline and Non-Crystalline materials: Crystal Structure of Solids: Defects in Crystals, Structure-Property Relationships of Biological Materials, Host Reaction to Biomaterials: Biocompatibility: Blood Compatibility, Soft Tissue and Hard Tissue Replacement Implants, Concepts of Implant-Blood and Implant-Tissue Interfaces: Implant Fixation, Ceramic Implant Materials and their Applications in Medicine Polymeric Implant Materials and their Applications in Medicine Metallic Implant Materials and their Applications in Medicine.

715122

BIO-MECHANICS

Basic Anatomy for Bio-mechanics: Anatomical Reference Planes, Directions and Movements, Bones: Muscles: Tendons: Ligaments: Articular Cartilage, Types of Joints, Revision of Basic Concepts: Vector Algebra: Force and Moment Vectors: Static Equilibrium, Examples from Bio-mechanics, Linear Kinematics: Basic Concepts: Free Fall; Projectile, Motion, Applications to Sports Mechanics, Angular Kinematics: Basic Concepts: Relationships between Linear and Angular Quantities, Applications to Sports Mechanics, Major Joints of the Upper Limb, Lower Limb and Spine: Detailed Analysis of the Mechanics of the Knee Joint, Applications to Other Joints, Introduction to Gait Analysis, Kinetics: Laws of Motion; Problem Solving in Kinetics, Work, Energy and Momentum Methods: Basic Concepts, Applications to Sports Mechanics, Mechanics of Deformable Bodies: Stress and Strain: Hooke's Law: Elastic and Plastic Deformation; Materials Properties: Biaxial and Triaxial Stresses, Examples from Bio-mechanics.

Basic Electrophysiology: Membranes, bio-electric loops, membrane polarization, action potential, initiation of action potential, action potential propagation, extracellular waveforms, stimulation of excitable cells, bio-magnetism. Volume conductor Theory: Monopole and dipole fields, basic relations in idealized homogeneous volume conductor, volume conductor properties of passive tissues. The electrical properties of tissues. Membrane Models: Nernst-Planck equations, Hodgkin-Huxley Resistor Battery Model, Goldman-Hodgkin-Katz constant field formulation. Nerve cells, skeletal muscle cells, endocrine cells, cardiac cells, smooth muscles, simplified model. Bio-electrodes: electrodes materials; electrode-tissue interface; types of electrodes and applications. The electrophysiology of biopotential signals: ECG, EEG, EMG, EOG, ERG etc. Stimulation of muscles and nerves (FNS).

Biomedical sensors and transducers: pressure, blood flow, body temperature, pulse, electrochemical, optical, and bio-analytical sensors and transducers. Bio-potential amplifiers: Preamplifier circuits, instrumentation amplifier, isolation amplifiers, surge protection, input guarding, dynamic range and recovery. Physiological recording systems: ECG, EMG, EEG, ERG, EGG. Blood pressure, flow and volume instrumentation systems. Spirometers and bio-electric impedance measurement. Clinical laboratory instrumentation, separation and spectral, electro-photometry, automated chemical analyzers, chromatography and blood cell counters. Principles of Pace-makers, Defibrillators. Electro-surgical and physiotherapy instruments.

Overview of the Subject; Major Types of Artificial Organs and Prostheses. Artificial Heart and Circulatory Assist Devices. Cardiac Valves; Vascular Grafts. Artificial Lungs and Blood-Gas Exchange Devices. Artificial Kidney; Peritoneal Dialysis. Liver Support Systems. Apheresis & Blood Fractionation; Artificial Blood. Artificial Skin and Dermal Equivalents. Artificial Pancreas. Prosthetics and Orthotics; Artificial Limbs. Major Joint Implants; Dental Implants.

Physiological effects of electricity. Electric shock hazard. Electro-

magnetic fields Hazards. Measuring hazard. Power distributions and leads. Handling and Transporting of hazardous materials. Safety codes of biomedical equipment. Test instruments for checking safety parameters of medical equipment. Risk factors and management of medical equipment.

Introduction to artificial neural networks. Supervised learning: single and multi-layer networks. Unsupervised learning. Optimization methods.

An Overview of Nuclear Medicine. Basic Review Radioactivity; Radionuclides; Radioactive Processes and Conservation Laws. Laws of Decay; Radioactive Half-Life. Production of Radionuclides. Radiopharmaceuticals; Interaction of High Energy Radiation with Matter. Radiation Dosimetry. Detection of High-Energy Radiation. In-Vitro Radiation Detection. In-Vivo Radiation Detection. Gamma-Camera. Operational Characteristics & Quality Control of Imaging Devices. Biological Effects of Radiations; Safe Handling of Radionuclides.

X-ray principles, generation, detection and imaging techniques. X-ray computed tomography techniques. Ultrasound fundamentals, generation and imaging techniques. Magnetic resonance imaging, fundamentals, generation, detection and imaging techniques.

Tomographic Nuclear Medical Imaging, the gamma camera, Planar imaging. Specification of camera performance. Positron Emission Tomography (PET). Single-Photon Emission Computed Tomography (SPECT). Data processing techniques. Angiography and Mam-mography.

Review of the theoretical, numerical analysis, synthesizes, and stability theory of bio-dynamics. Modeling strategies in physiological systems; cell models, muscle models, cardiac and cardiovascular systems and circulation modeling. Visual system modeling, nervous

system models, artificial neural networks, numerical computational methods. Closed loop drug delivery system modeling.

212-09

IMAGE PROCESSING - IMA

Digital Image Acquisition. Two Dimensional Fourier Transform. Sampling. Interpolation and reconstruction of images. Image enhancement and restoration. Feature extraction. Image reconstruction from projections in two dimensions and three dimensions.

212-06

COMPUTER APPLICATIONS - H-10-010

An Overview of the Subject; Basic Review - Computers; Data-Base Management Systems. Hospital Information Systems. Informatics and Clinical Imaging. Computer Networks in Health Care. Clinical Decision Support and monitoring Systems. Artificial Intelligence Methods for Medical Decision Making. Expert Systems. Medical Terminology and Diagnosis Using Knowledge Bases.

212-02

PROPERTIES OF THERMODYNAMICS

Definitions and Basic Concepts; Properties of pure substance; Work and Heat; The first law of Thermodynamics: For a closed system and control volume; The second law of Thermodynamics: Reversible cycle and process. Thermal Efficiency: the Carnot cycle. Entropy; The Rankine cycle, The reheat cycle, Vapor- compression refrigeration cycles, The Brayton cycle.

212-03

FUNDAMENTAL MECHANICS

Fundamental concepts and principles. Equilibrium of a particle. Equivalent Systems of forces, moment of a force about a point and about a given axis, moment of couple. Reaction at supports and connection for two and three-dimensional structure, equilibrium of a rigid body. Uniform rectangular motion of particles. Derivation of vector functions. Linear and angular momentum of a particle.

212-04

PROPERTIES OF MATERIALS

Type of materials. Structure, properties and processing. Fick's first law. Fick's second law. Tensile test, Impact test, Fatigue test, Creep test. Hardness test. Electrical conductivity of metal, super conductivity. Insulators, Types and Applications of Semiconductor materials. Dielectric and Magnetic properties. Optical and thermal Properties. Chemical Corrosion.

212-05

BIOCHEMISTRY - BIO

The course covers the chemical structure and biological functions of carbohydrates, proteins, lipids and nucleic acids. Emphasis is made on biochemical energies and intermediary metabolism of carbohydrates, lipids and amino acids. Biosynthesis of biological macromolecules and introduction to enzymes chemistry are also covered.

212-07

BIO

Introduction to cell biology; Cell membrane: Mediated transport system; Bulk transport; Cytoplasm and Cytoplasmic; Nuclear cell biology; Cell cycle and cell division: Meiosis and gametogenesis; Primary tissues: Connective tissues; Muscle tissues; Nerve tissues.

212-08

Introduction to human body: Anatomical terms, regional anatomy, systemic anatomy, body cavities abdominal quadrants. The skeleton: types of bones, general features of bones, divisions of the skeleton, appendicular skeleton, axial skeleton, joints. Upper limb and lower limb. Thorax. Abdomen. Kidneys. Pelvis and Perineum.

212-10

CELL PHYSIOLOGY - BIO

Cell Physiology, Nerves systems, Muscles, Cardiovascular systems, Respiratory system, Gastrointestinal system, Renal system, Endocrine system.

212-11

GENERAL PSYCHOLOGY - BIO

Introduction to general psychology, Theories of learning, Survey of cognitive development, Schools of psychology, Personality, Intelligence.

212-12

2D ORTHOGONAL PROJECTIONS

2D orthogonal projections (plan, section, and elevations). Pictorial drawings. Architectural rendering (abstraction, textures and materials). Lettering.

212-13

TOOLS AND MATERIALS

Tools and materials. Line, plane color, texture and tone. Visual and

physical structures in 2D and 3D.

Space, scale, form and environment. Basic needs and man relative to architecture. Elementary design of building and constructional expression in architectural design.

Module 2

Freehand sketches using different media (pencil, pen and ink, colors, and charcoal). Studying proportions, shade and light. Poetics of architecture and interior design. Creativity and conceptualization. Channels to creativity. Visual composition.

Design, Design process, Creativity, Composition.

Module 3

Shade and Shadow, Basics for drawing perspectives, Shade and light for 2 D drawings, Shade and light for 3 D drawings.

Module 4

Design process, Creativity and conceptualization, Residential buildings (single family home design), Small scale buildings.

Module 5

Pre-historic Architecture, Old Egyptian Architecture, Sumerian Architecture, Greek Architecture, Roman Architecture

Module 6

Climatic Zones, Bio-climatic Charts, Psychometric Chart, Human thermal comfort, Traditional architecture as response to climate

Module 7

Building systems and materials, Foundations, Wall sections and elements, Flooring materials, Damp proof coursing, Working drawings documents (an overview).

Module 8

Design process, creativity and conceptualization, Residential com-

plexes, Multipurpose spaces, Small scale public building design.

Module 9

Early Christian architecture, Byzantine Architecture, Romanesque Architecture, Gothic Architecture, Renaissance Architecture.

Module 10

Design methodology, Design process, Traditional and systematic design, Latest available AutoCAD software (2D).

Module 11

Working drawing documents

(an overview), Carpentry, Partitions, False-ceiling, Finishing materials.

Module 12

Circulation and building form, Path- space relationships, Approach to context in response to design, Site analysis.

Module 13

Introduction to Islamic Architecture

Introduction, characteristics, form, space, expression and influence of Islamic architecture, Early Islamic architecture, Islamic architecture of the Umayyad Dynasty in the East, Islamic architecture of the Umayyad Dynasty in the West, Islamic architecture of the Abbasids Islamic architecture in Egypt, Fatimids, Ayubids, Maumluques, Islamic architecture of the Ottomans, Islamic architecture in Iran, India and the far East.

Module 14

2 D AutoCAD, 3 D AutoCAD, 3D studio

Module 15

A multi-use complex project

Design problems, design solutions, design strategy, and design process, Vocabulary of architectural form, space and order

Module 16

Industrial revolution and revivalism

Industrial revolution, Neo classicism and revivalism, Modern move-

ment and the Chicago school. Art nouveau and the Beaux Art. The international Style. Modern movement after Second World War. Post modern architecture. Deconstruction.

1.10.1 DRAWING PREPARATION

Principles of working drawing preparation. Drafting and presentation techniques. Technical installations. Working details / Modern building systems and materials. The use of available AutoCAD program in preparation of detailed working drawings.

1.10.2 LANDSCAPE ARCHITECTURE

History and application of the process of landscape architecture. Ways of shaping and grading sites. Technology and methods involved. Natural and artificial media of landscaping. The local and regional vegetation preservation of natural recourses.

1.10.3 NEW SETTLEMENTS AND VILLAGES

New settlements and villages. The habitat issues and the environment.

1.10.4 LARGE SCALE COMPLEXES

Large scale complexes with emphasis on adaptable technologies in design.

1.10.5 PSYCHOLOGY OF DESIGN

Introduction to psychology of design. Elements of design. Aesthetic elements. Factors that can Affect design. Perception and design. Psychology of lines, shapes and volumes. Psychology of color. Psychology of furniture arrangement in interior space. Applications.

1.10.6 DRAWING PREPARATION

Principles of working drawing preparation. Drafting and presentation techniques. Technical installations. Working details / Modern building systems and materials. The use of available AutoCAD program in preparation of detailed working drawings.

1.10.7 THE IMAGE OF THE ENVIRONMENT

The image of the environment. The city image and its elements.

Urban design objectives and techniques. Scale and urban design.

Concept and scoop of urban and regional planning. History of cities including physical and cultural forces. Demographic studies. Land use studies. Zoning, definition, need, and advantages. Transportation, neighborhood definition.

Historical review. Theory and practice of heritage conservation. International heritage experience. Local heritage experience

Relevant projects in architecture and urban design.

1.10.8 DEFINITION OF PRACTICE

Definition of professional practice. Phases and programs required for Implementation of development projects. Building codes and rules. Cost analysis and economic factors. Ways and methods of implementing projects. Team work, consultants and their role in designing and supervision.

Relevant projects in architecture and urban design.

Design elements: Material symbols: Techniques of surface treatments: Treatments of interior spaces and volumes: Small project: color drawings and scale- model

Shade and light for 2D drawings: Basics for drawing perspectives: Architectural rendering: Shade and light for 3D drawings.

Introduction to psychology of design: elements of design: Aesthetic elements: Factors that can effect design: Perception and design: Psychology of lines, shapes, and volumes: Psychology of color: Psychology of furniture arrangement in interior space: Applications.

2.1.1

2.1.1.1

Auto Cad software; (2D).

2.1.2

2.1.2.1

3D Auto CAD; 3D studio.

2.1.3

2.1.3.1

Freehand sketches using different media (pencil, pen and ink, colours, charcoal, Ö etc.); Studying proportions, shade and light; Poetics of architecture and interior design; Creativity and conceptualization; Channels to creativity; Visual composition.

2.1.4

2.1.4.1

Light and Color; Colour Wheel; Colour Perception; Colour Effect; Colour Schemes; Applications.

2.1.5

2.1.5.1

Principles of limited spaces; Space components; Storage units; Dimensions; Circulation; Materials; Space shapes and arrangements; Design drawings; Scale model.

2.1.6

2.1.6.1

Basic tools; Materials; Working drawings; Stages of model making; Preparing of samples board.

2.1.7

2.1.7.1

Function; Circulation elements; Furniture arrangement; Colour plans; Surface treatments; Lighting; Design Drawings; Scale model.

2.1.8

2.1.8.1

Space planning; Shop front design; Graphics; Lettering and signs; Goods classification, movement and distribution; Display and Lighting techniques; Design Drawings; Scale model.

2.1.9

2.1.9.1

Mesopotamian; Egyptian; Greeks and Romans; Early Christian; Byzantine and Romanesque; Renaissance and Classical.

2.1.10

2.1.10.1

The development of new systems; Art Noveau; The Deco; Style after world II; 1960s, 1970s, and postmodern; Latest Trends

2.2

2.2.1

Flooring and floor covering materials; tiles, woods, carpet, rugs, paints; ceiling covering materials; blaster, pain, wood, fabrics; different types of ceiling; working drawing documents (an overview); carpentry.

2.2.2

2.2.2.1

Egyptian Furniture; French Style; Modern Furniture; Furniture Materials; Wood Joint; Working Drawings; Scale Model; Full Size Model (full size model can be executed in an outside furniture workshop).

2.2.3

2.2.3.1

Functional and aesthetics floor plan; Design Drawing; Dimensions; Colour Schemes; Materials; Lighting; Perspectives; Scale-model.

2.2.4

2.2.4.1

Design Drawings; Details Drawings; Lighting; Materials; Reports; Scale-model.

2.2.5

2.2.5.1

Textiles period patterns; The uses of Textiles; Names and Types of Textiles; The Characteristics of the Basic Fiber; The Cellulose and the non-Cellulose; Testing and Finishes; Construction; Printing and Dying Textiles; Meaning of Accessories; Wall Accessories; Floor Accessories; Table Accessories.

2.2.6

2.2.6.1

Wallpaper; Wood; Glass; Paint; Fabrics; Plaster.

2.2.7

2.2.7.1

Analysis of interior space; Functions and relations between spaces; Furniture and accessories; Materials.

290019

WORKING DRAWING

Materials and specifications; Details of different components; Structure and installation techniques; Dimensions; Working drawing.

293327

INTERIOR LANDSCAPE

Historical Background; Plants; Fountains and pools; Furniture coverings; Lighting (Inside and outside)

294027

LIGHTING & ACOUSTICS FOR INTERIOR DESIGN

The important of lighting in interior design; Types of lighting; Types of luminaries; Kind of artificial lighting (ceiling, wall etc.); How to locate lighting fixtures; Acoustics- general information; Sound insulation in building; Good sound design

298223

PRACTICAL INTERIOR DESIGN

Interior Design and decoration, Business formations; Business organization & personal management; Determining design fees; Preparing design contact; Promoting the interior design practice; Project management techniques, time records & project schedules; Contact documents & specifications.

298496

GRADUATION PROJECT

Introduction; Philosophy of needs; Philosophy of Interest; The aims and goal; Design Description; Design Details, Variety of familiar studies.

298421

GRADUATION PROJECT

Design of aesthetic and functional floor plan; Design drawings; Drawing perspectives; Drawing details; Lighting; Board Materials; Scale-Model.

MAJOR OPTION

298431

MAJOR OPTION COURSE

Research tools and methodology; Spatial analysis; Criticism; Design drawings; Presentation techniques; Field trips; Scale model

298481

MAJOR OPTION

Analysis of interior spaces; Functions; Furniture and furnishings; Decoration means; Materials; Lighting techniques; criticism

298491

MAJOR OPTION COURSE

Main types of cameras; Developing and enlarging; Black and white photographs; Coloured photographs; Field trips; Application on real project.

298482

MAJOR OPTION COURSE

Constructing 3D models; The extensive use of 3D studio; The use of PhotoShop as a presentation software; The use of PowerPoint for presentation; Project management software.

298481

MAJOR OPTION COURSE

Human dimensions; Furniture dimensions; Ergonomics; Circulation; Analysis of spaces; Relations between functions; People preference and behavior; Social and cultural effects

298481

MAJOR OPTION COURSE

Research tools and methodology; Furniture analysis; Criticism; Field trips; Design drawing; Presentation technique; Scale model

FACULTY MEMBERS ACADEMIC YEAR 2004-2005

Academic Rank	No.
Professors	5
Associate Professors	11
Assistant Professors	17
Lecturers	17
Total	50

Dean	1
Deputy Deans	2

CONTENTS

Introduction

Mission and Objectives of the Faculty

Degrees Offered

Career Opportunities

B.A. in English Language and Literature

Objectives and Expected Outcomes

Study Plan

Career Opportunities

B.A. in Communication and Media Studies

Objectives and Expected Outcomes

Study Plan

Career Opportunities

Faculty Members



FACULTY OF FOREIGN LANGUAGES AND TRANSLATION

E-mail: languages@ajman.ac.ae

Introduction	220
Mission and Objectives of the Faculty	221
Degrees Offered	221
Career Opportunities	221
B.A. in English Language and Translation :	222
Objectives and Career Opportunities	222
Study Plan	223
Course Descriptions	228
B.A. in Communication and Translation :	232
Objectives and Career Opportunities	232
Study Plan	233
Course Descriptions	237
Faculty Members	242

Introduction

The Faculty of Foreign Languages and Translation has three main areas of responsibility. The first is to realise the vision and philosophy of the University by breaking barriers between the academic and business world, and between theory and practice. It seeks to prepare graduates capable of dealing constructively and innovatively with the challenges of the communication and information age with a view to serving the goals of society. Being a university of science and technology, Ajman University strives to render its scientific, educational and community services through the appropriate technologies: conventional, multi-media and virtual so that students can benefit from these resources.

The Faculty's second area of responsibility is for the B.A. programs in:

1. English Language and Translation (English/Arabic and Arabic/English)
2. Communication and Translation.

The study programs of these two specializations are designed in such a way that modern technologies in media and communication are integrated within the courses offered. The curriculum has been

developed using methods and techniques applied in leading schools of translation and interpretation around the world. Focused chiefly on teaching practical and interpreting skills, the curriculum guarantees that actual teaching concentrates on inculcating students with appropriate translation and interpreting skills and techniques which they will be able to use in various registers in their professional life. The curriculum includes teaching both translation and conference interpreting (liaison, consecutive and simultaneous).

The Faculty of Foreign Languages and Translation has international contacts with well-known academic and research centres of translation and interpretation.

The Faculty's third area of responsibility is to provide intramural language services to university students and staff as well as extramural services to the public sector and the business community.



Background

The establishment of the Faculty of Foreign Languages and Translation comes as a positive response to the needs of our present age with a view to contributing to knowledge.

Information production, storage and processing has become inevitable for the Arab World in general and the UAE in particular. Preparing up-to-date qualified young people for mastering the intellectual, technological and scientific fields of the new era, requires customizing and being up-to-date with the knowledge to meet the needs and priorities of society.

Objectives

In line with the University's vision and philosophy, the Faculty of Foreign Languages and Translation prepares graduates to:

1. work effectively as bilingual translators and interpreters,
2. utilise multimedia devices in translation and communication,
3. be familiar with foreign cultures,
4. meet needs of the region in the field of translation and other fields where English is required,
5. be prepared for postgraduate studies in linguistics, translation and teaching English as a Foreign Language.

Degrees Offered

Bachelor of Arts (B.A.) in English Language and Translation
Bachelor of Arts (B.A.) in Communication and Translation

Admission Requirements

Secondary school certificate or equivalent.

Passing the University English placement test.

(For more details see the University admissions policy).

Career Opportunities

Our graduates may take up the following jobs:

1. Legal translators and interpreters.
2. News readers, reporters, editors and journalists.
3. Public relations, personnel and executive officers.
4. Teaching of English as a Foreign Language.

This program offers a wide range of language study, translation, and literature courses. The language-study courses are designed to develop students' competence in the skills of reading, writing and communication, and to acquiring a working proficiency in English.

The translation courses are designed to provide students with the foundation and professional training in the areas of written translation and consecutive as well as simultaneous interpretation. Built around enduring works written in the English language, literature courses are designed to introduce students to a broad range of approaches that yield different kinds of insights into how literature is created and how it achieves its effects.

EDUCATIONAL PHILOSOPHY

The educational philosophy of the Department is reflected in a set of goals and objectives as follows:

1. to develop students' competence in language skills, especially reading, writing and speaking;
2. to provide students with the necessary training to become professional translators and interpreters;
3. to develop students' knowledge of the writers and literature of various periods, and the processes of critical thinking and writing;
4. to prepare students for careers involving analytical, critical and communicative proficiencies;
5. to prepare students for career opportunities through intensive study in a foreign language.

CAREER OPPORTUNITIES

Our graduates may take up the following jobs:

- * news and conference translators and interpreters.
- * public relations, personnel and executives officers.
- * sworn-in-legal translators/interpreters.

COURSE PLAN FOR A B.A. IN ISLAMIC STUDIES & REGULATION PROGRAM

University Requirements

1. University Compulsory Courses (15 Cr.Hrs.)

Course No.	Course Title	Cr.Hrs.	Prerequisites
0500120	Arabic Language	3	-
0500110	Islamic Culture	3	-
0600101	English (I)	3	-
0311101	Information Technology Fundamentals	3	-
0130130	Statistics	3	-

2. University Elective Courses (6 Cr.Hrs.)

Course No.	Course Title	Cr.Hrs.	Prerequisites
0110110	Mathematics (I)	3	-
0514330	Research Methodology	3	-
0500130	General Psychology	3	-
0150150	Scientific Pioneer & Patents	3	-
0150151	History of Science in Islam	3	-
700100	Environment, Water & Energy	3	-

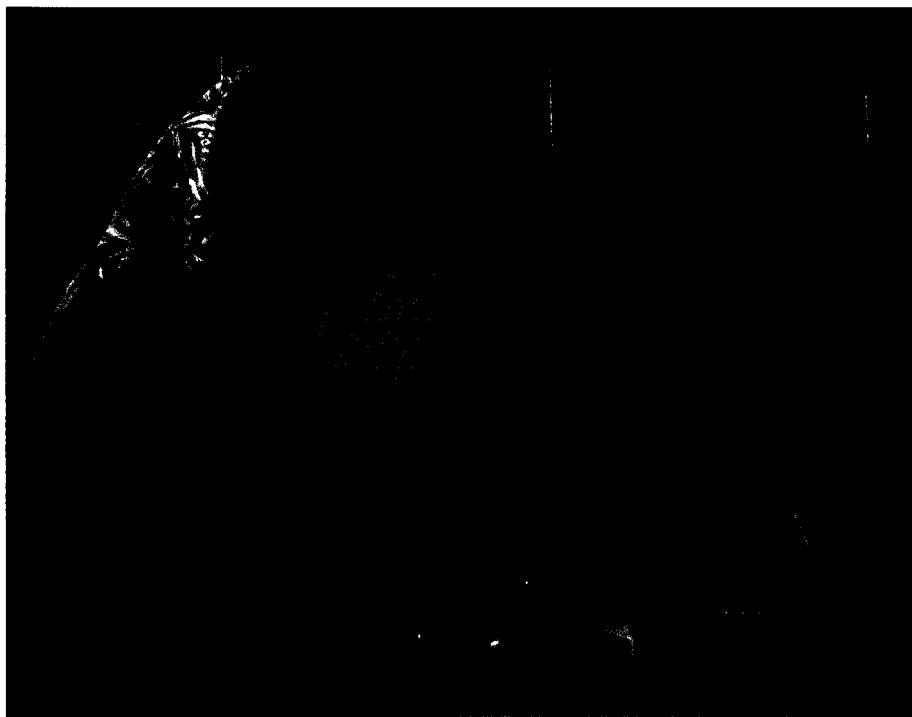


Department Compulsory Courses (96 Cr.Hrs.)

Course No.	Course Title	Cr.Hrs.	Prerequisites
1. 600102	English II for Trans & Education	3	0600101-0
2. 0600103	Study Skills	3	0600101-0
3. 0610112	Western Life & Thought	3	-
4. 0600112	Reading Skills	3	0600101-0
5. 0600114	Listening & Speaking Skills	3	0600101-0
6. 0600116	Writing Skills	3	0600101-0
7. 0600211	Advanced Reading Skills	3	0600112-0
8. 0600212	Advanced Writing	3	0600116-0
9. 0600223	Intro. to Linguistics	3	0600102-0
10. 0600231	Study of Vocabulary	3	0600102-0
11. 0600232	Discourse Analysis	3	0600234-0
12. 0600234	Linguistics (II)	3	0600223-0
13. 0610241	English / Arabic Translation	3	
14. 0600251	Grammar of English (I)	3	-
15. 0600252	Grammar of English (II)	3	0600251-0
16. 0630307	Semantics	3	0600252-0
17. 0630401	Contrastive & Error Analysis	3	0600234-0
18. 0600332	Arabic Grammar	3	0500120-0
19. 0600392	French (I)	3	-
20. 0600431	Stylistics	3	0600234-0
21. 0600492	French (II)	3	0600392-0
22. 0610242	Arabic / English Translation	3	0610241-0
23. 0610323	Intro. to English Literature	3	0600102-7
24. 0610341	Language of Newspapers	3	0600234-0
25. 0610342	Translation of Financial Reports	3	0600231-0
26. 0610441	Translation: Theory and Practice	3	0600234-0
27. 0610312	Translation of Legal Texts	3	0610242-0
28. 0610322	The Sociology of the English Language	3	0600234-0
29. 0610445	Trans. of Islamic & Lit. Texts (project)	3	0610323-0
30. 0610471	Consecutive Interpreting I (5 Contact hrs. = 3 Cr. hrs)	3	
31. 0610472	Consecutive Interpreting (II) (5 Contact hrs. = 3 Cr. hrs)	3	0610471-0
32. 0610474	Simultaneous Interpreting (5 Contact H. = 3 Cr. Hrs)	3	0610471-0
33. 0600300	Training	3	Completion of 65 Cr.hrs.

Faculty Elective Courses (12 Cr.Hrs.)

Course No.	Course Title	Cr.Hrs.	Prerequisites
1. 0600224	Phonetics & Phonology	3	0600234-0
2. 0600324	English Literature (II)	3	0610323-0
5. 0600338	Morphology & Syntax	3	0600252-0
6. 0600432	Applied Linguistics	3	0600234-0
7. 0600434	Seminars on Current Affairs	3	-
8. 0600435	Arabic for Translators	3	0500120-0
9. 0600475	Word Processing for Editing	3	0311101-1
10. 0600493	French (III)	3	0600492-0
11. 0610453	Translation Project	3	0610445-0



IDEAL FOUR YEARS STUDY PLAN

SEMESTER I

Course No.	Course Title	Cr.Hrs.	Prerequisites
0130130	Statistics	3	
0311101	Infomation Technology Fundamental	3	
0500110	Islamic Studies	3	
0500120	Arabic Language	3	
0600101	English I	3	

SEMESTER II

Course No.	Course Title	Cr.Hrs.	Prerequisites
0600103	Study Skills	3	0600101
0600112	Reading Skills	3	0600101
0600114	Listening/Speaking Skills	3	0600101
0600116	Writing Skills	3	0600101
600102	English Trans. & Education	3	0600101

SEMESTER III

Course No.	Course Title	Cr.Hrs.	Prerequisites
0600211	Advanced Reading	3	0600112
0600212	Advanced Writing	3	0600116
0600223	Introduction to Linguistics	3	0600102
0600251	Grammar of English I	3	
0610241	English / Arabic Translation	3	

SEMESTER IV

Course No.	Course Title	Cr.Hrs.	Prerequisites
0600231	Study of Vocabulary	3	0600102
0600234	Linguistics II	3	0600223
0600252	Grammar of English 2	3	0600251
0600332	Arabic Grammar	3	0500120
0610242	Arabic / English Translation	3	0610241
-	University Elective Course	3	

SEMESTER V

Course No.	Course Title	Cr.Hrs.	Prerequisites
0610323	Intro. to English Literature	3	0600102-0
0610341	Language of Newspapers	3	0600234-0
0630401	Contrastive & Error Analysis	3	0600234-0
-	University Elective Course	3	
-	Faculty Elective Course	3	

SEMESTER VI

Course No.	Course Title	Cr.Hrs.	Prerequisites
0600232	Discourse Analysis	3	0600234-0
0600392	French I	3	
0610322	The Sociology of the English Lang.	3	0600234
0610342	Translation of Financial Reports	3	0600231-
-	Faculty Elective Course	3	

SEMESTER VII

Course No.	Course Title	Cr.Hrs.	Prerequisites
0600431	Stylistics	3	0600234-0
0600492	French II	3	0600392-0
0610312	Translation of Legal Texts	3	0610242
0610471	Consecutive Interpreting I	3	
0630307	Semantics	3	0600252-0
-	Faculty Elective Course	3	

SEMESTER VIII

Course No.	Course Title	Cr.Hrs.	Prerequisites
0610112	Western life & thought	3	-
0610441	Translation: Theory & Practice	3	0600234-0
0610445	Translation of Islamic & Literary Texts	3	0610323-0
0610472	Consecutive Interpreting II	3	0610471-0
0610474	Simultaneous Interpreting	3	0610471-0
	Faculty Elective Course	3	
0600300	Training	3	Completion of 65 Cr. Hrs.

COURSE DESCRIPTIONS

University Requirements

000101 Reading Skills

The course starts with a brief description of what reading is, the characteristics of the reading process and what a good reader does. Then, students are exposed to different topics in order to give them maximum time to develop reading through reading. Gradually, they acquire reading speed and the different types of reading skills and strategies. As reading is a cognitive process, students are given the chance to develop critical thinking, inferencing and relate what they read to themselves and their environment.

000102 Writing Skills

This course is designed to introduce the process of writing and teach students to produce paragraphs by generating, developing, and organizing ideas. Brief writing strategies and related grammar topics are presented to help students write more effectively. By providing them with a wide variety of stimulating topics to write on and exercises that go beyond sentence manipulation drills, students are encouraged to bring their own ideas and talents to the writing process.

000103 Simultaneous Interpretation

In this course students learn and practise the rules of simultaneous interpretation. They are trained in doing two tasks at a time. Students are trained in using simultaneous interpretation equipment and sensitized to the differences between written translation and simultaneous interpretation.

000104 Practical Translation of Texts into English (Language and Culture)

This is a course in English for specific purposes at the intermediate level in the student's major subject. It provides practice in the language skills while emphasizing the structures, vocabulary and registers appropriate in the student's field. There is also a review, continuing from English 1, of structures, vocabulary and registers appropriate to the student's field.

000105 Translation Project

Students choose a subject with the guidance of the instructor and are required to give a presentation explaining the reasons for choosing the subject and its significance to translation. This may be the anno-

tated translation of a literary work or practical research to be presented in the form of a small dissertation of 10,000 words.

000106 Basic English Grammar

This course is designed to equip students with the basic skills of translation and covers various registers including social, scientific and others.

000107 English Grammar

This core course is the first of two courses, which between them will provide a comprehensive survey of English grammar and provide the descriptive and analytic background necessary for the use of standard reference grammars.

000108 Advanced English Grammar

This is the second of two core courses which are meant to provide a comprehensive survey of traditional English grammar and provide the descriptive and analytical background necessary for the use of standard reference grammars.

000109 Listening Comprehension

This course develops the ability to hold conversations, widens the range of listening strategies, creates an appreciation of appropriate functional strategies, and the ability to give a talk or a presentation.

000110 Advanced Reading Skills

This course builds on the skills acquired in the first reading course. It extends the students range of strategies and their ability to deal with a variety of text types, including complete literary works. Techniques for fast reading are presented and practiced.

000111 Translation Theory and Practice

The course is devoted to the study of both the theory and practice of translation. It examines in detail different principles and approaches, with practical illustrations and exercises.

000112 Translation in Context

This course develops the students skills in translating in a person-to-person situation, requiring quick thinking, paraphrasing/reformulating skills, developing a sense of appropriacy/register and acquiring a broad range of vocabulary.

This course develops the students skills in translating in a person-to-person situation, requiring quick thinking, paraphrasing/reformulating skills, developing a sense of appropriacy/register and acquiring a broad range of vocabulary. There will be more emphasis given to accuracy in specialized fields.

This course introduces students to the form, content and schema of financial reports, their purpose and function. It familiarizes and equips the students with the terms of finance and gives students practice in the translation of financial texts from Arabic into English and vice versa.

This course aims at sensitizing students to the rules of word formation. It demonstrates to students the relationship between syntax and morphology and trains them in using varied structures when writing and speaking.

This course introduces students to the cultural and social settings of the English language. That is, the study of language in context. It introduces students to how language varies as it is adapted to suit subject matter, medium, purpose or attitude. It also provides students with tools and techniques by which they can analyse and distinguish the form and function of the different varieties (registers). Basic terms such as style, variety, register, jargon, etc. are first defined and then students are to examine different registers to identify the syntactic and lexical features that are peculiar to each register. The course also gives students practice in listening to and identifying different dialects in English, attuning their ears to enable them to cope with the range of accents they will encounter outside the classroom. It will also look at written texts and the variation in vocabulary and expression in different parts of the world.

This course aims at developing an awareness of the differences between spoken and written discourse. It also helps students identify and employ cohesive devices and sensitizes students to the effect of situation and context on the formality and informality of language. It also introduces students to different ways of presenting information (theme-rheme relationships).

This is an introductory course in English literature. It gives the students insight into the nature of literary discourse and critical commentary in the wider contexts of the social, literary, and cultural concerns which have shaped them, and introduces them to the three major genres of poetry, prose and drama. The course represents literature as a field of study and provides exposure to English speaking cultures as reflected in artistic expression.

This course is a continuation of Literature I. It concentrates on 20th century literature i.e. a selection from poetry, novels, short stories, drama and expository prose. Some of this century's critical approaches to literature will also be discussed.

This course is a logical development of Writing Skills. A few model essays are to be examined. Following class discussion of the situation, the data and the language, the students are required to produce different types of written genres.

This course introduces students to aspects of Western life and thought which are pertinent to language learning. It also aims to sensitize students to aspects of Western culture such as daily life routines, ways of thinking, socializing and taboo items.

This course aims to sensitize students to the differences between the English and Arabic languages. The focus of the course is on sound systems, word formation, spelling, parts of speech, sentence types, and the punctuation of both English and Arabic. The course also aims at making students aware of the differences between English and Arabic structures, so that they can implement what they have learnt into their translations from Arabic into English and vice versa.

An analytical framework of linguistic features such as graphology, phonology, grammar, vocabulary and semantics is employed in detailed studies of the stylistic features of different varieties of writ-

ten English, including literary texts. The course aims at developing an awareness of different varieties of English and training students in describing the range of linguistic patterns existing in English.

English 1

Applied English: Translation

This course is designed to equip students with the basic skills of translation. It covers various registers including social and scientific.

English 2

Phonetics and Phonology

A study of "Received Pronunciation" of standard British English in the context of a general theory of speech sounds and their use, and an explanation of the nature of phonetics and phonology. The course has a strong practical bias, and the student will learn phonemic transcription. The course aims at improving students understanding of the sound system of English, and hence enhancing their speaking and listening skills.

English 3

English for Legal Studies

This course develops the students' knowledge of legal matters on an international basis, and explores such topics as pollution, law of the sea, civil rights, with translation of key documents. It also gives students practice in the translation of contracts from Arabic into English and vice versa. The emphasis is on the overall structure of contract genres and their lexical features.

English 4

Arabic to English Translation

This is a course in the translation of religious and literary texts from Arabic into English and vice versa. The focus of the course is on the translation of the prophet's tradition, and simple and complex literary texts. The course aims at making students aware of the nature of religious and literary texts and sensitizing them to the problems of translating religious texts into English.

English 5

Word and Grammar

Word structure is examined (without using the terminology of morphology, which is given in another course) and intensive practice given in the use of dictionaries. Strategies for enlarging students vocabulary are presented, and such vocabulary-related concepts of collocation, connotation, semantic range, lexical sets, idiom and discourse are introduced. The course aims at enabling students to learn systematically the meaning of words, and to infer meanings from

context. It also stresses the importance of such vocabulary-related concepts as collocation and idiom.

English 6

English for Science

This course is an introduction to the scientific study of language. It tackles the central concerns of modern linguistics, phonetics, phonology, morphology, syntax and semantics. It provides students with the basic means to analyse & describe languages at different levels.

English 7

International Political Institutions

The main objective of the course is to introduce students to the events which are taking place in this area and to develop the skills of giving presentations about specific subjects to provide students with some in-depth knowledge of international political institutions.

English 8

Applied Linguistics

This course is mainly an introductory study of the application of linguistics theory to the fields of language acquisition/learning and teaching, group and intercultural communication, translation & lex-



icography. It aims at providing students with insights into areas of linguistic concern which are currently attracting widespread interests in the fields of language, learning/teaching and education.

060018

Language I

This course aims at equipping students with the necessary skills needed for university education. It is tailored to guide students and make their university education as comfortable and as easy as possible.

060019

Language II

Through translation practice, students will study texts from different newspapers, looking at style, format, intent and effect, editorial style, purpose and language, and compare English and Arabic texts.

060020

Language III

The purpose of this course is to equip students with a thorough understanding of and practical ability to use some of the wide range of computerized resources and tools now available to translators. It will develop students' abilities to manage files on the computer, use word-processors and a database for their coursework, use electronic mail, search the Internet and World-Wide Web for resources, consult online databases, use computerized glossaries, corpora, and use automatic translation packages.

060021

Language IV

Following the study in Linguistics I, this course introduces the fields of psycholinguistics, sociolinguistics, language change and the relation between language and cultures. It also looks at recent developments in the area of linguistics, particularly transformational generative grammar.

060022

Language V

Training is the practical application of studies received in the Faculty of Foreign Languages and Translation. It takes place in local organizations or institutions where English is the normal medium of communication. The training period is three months, and may be taken during vacation or in the student's final semester. If a student opts to train in his/her graduating semester, s/he may take no more than two university courses.

060023

Arabic for Translators

This course aims at providing the students with the required translation strategies to enable them to have the appropriate command of Arabic when translating between the two languages. As the two languages are of two different families and cultures, it follows then that the course also focuses on the problematic linguistic areas of the two languages and tries to suggest solutions to these problems. Practically, it will draw the attention of the course participants, whose mother tongue is Arabic, to the appropriate translations of linguistic stretches and items in both languages.

060024

Arabic Grammar

This core course will provide a comprehensive survey of Arabic grammar and provide the descriptive and analytic background necessary for the correct use of Arabic.

060025

Semantics

Meaning is central to the study of language. Semantics deals with the different aspects of the meaning of words and sentences and how these meanings are built up and interrelated. Withing the overall framework of linguistic semantics, this course covers a number of themes ranging from associative/conceptual meaning to the lexical relationship between words.

060026

French I

This course introduces students to the basics of the French language. It provides students with basic vocabulary and grammar to enable them to communicate easily in French.

0600192

French II

This course further develops the students' communicative competence, both oral and written, in French. It also acquaints students with the French culture and civilization.

0600193

French III

This course continues from French II. Students are encouraged to discuss a variety of subjects. They learn how to tell a story, give a report, form and give an opinion etc..., as well as continue to learn about the French culture and civilization.

BACHELLOR OF ARTS (B.A.) DEPARTMENT OF COMMUNICATION & TRANSLATION

Introduction

The University views new information technology, including multimedia, as a means that helps not only in creating the environment of innovation but also contributes to the interaction between the University, on the one hand, and the business community on the other. The faculty recognises that in order to enable specialists to perform their roles effectively in the new millenium they have to be receivers of information coming from abroad and also be able to interact with it and comprehend its logic.

First: they must be competent in using modern communication technology devices.

Second: they must be competent in the language most comminly used for communication, which is English.

Third: they need to adopt these kinds of skills bearing in mind the UAE cultural identity of the Arab Islamic heritage and values.

Despite the relative increase of the newly established departments of information in local universities in the last few years, there is still a persistent demand by the local and regional markets for a special kind of communication expert to meet the increasing needs of society in the face of the prevailing technological, social and economic changes. Our graduates satisfy these condition.



Objectives

to familiarize students with the various types of communication in the spheres of journalism, radio, television and public relations with the emphasis on the features of each of them.

to acquaint them with the basic concepts, techniques and procedures of translation in general and communication translation in particular.

to enable them to master the journalistic, radio, TV, and public relations writing styles in both Arabic and English.

to enhance their competence in translation from Arabic into English and vice versa.

to enable them master the techniques of interpersonal face -to-face communication in both English and Arabic.

to enable them to master the use of multimedia in communication translation, recitation, journalism, radio and TV writing, in addition to production and presentation of various communication materials.

to enable them master the use of the internet in communication in English & Arabic.

The University is also endeavouring to consolidate its relations and links with the various communication establishments involved in translation and communication worldwide.

Career Opportunities

Our graduates may take up the following jobs:

1. News and conference translators and interpreters.
2. News readers, reporters, editors and journalists.
3. Office and public relations personnel and executives officers

University Compulsory Courses (15 Cr.Hrs.)

Course No.	Course Title	Cr.Hrs.	Prerequisites
0500120	Arabic Language	3	-
0500110	Islamic Culture	3	-
0600101	English (I)	3	-
0311101	Information Technology Fundamentals	3	-
0130130	Statistics	3	-

2. University Elective Courses (9 Cr.Hrs.)

Course No.	Course Title	Cr.Hrs.	Prerequisites
0600102	English II for MC	3	0600101-0
0110110	Mathematics (I)	3	-
0514330	Research Methodology	3	-
0500130	General Psychology	3	-
0150150	Scientific Pioneer & Patents	3	-
0150151	History of Science in Islam	3	-
700100	Environments, Water & Energy	3	-

3.Faculty Compulsory Courses (12 Cr.Hrs.)

Course No.	Course Title	Cr.Hrs.	Prerequisites
0600112	Reading Skills	3	600101
0600114	Listening & Speaking Skills	3	600101
0600116	Writing Skills	3	600101
0600251	Grammar of English (I)	3	600101

4. Faculty Elective Courses (9 Cr.Hrs.)

Course No.	Course Title	Cr.Hrs.	Prerequisites
0600252	Grammar of English (II)	3	0600251-0
0600475	Word Processing for Editing	3	0311101-1
0610112	Western Life & Thought	3	-
0610441	Translation: Theory & Practice	3	620302
0600435	Arabic for Translators	3	500120-0

5. Department Compulsory Courses (78 Cr.Hrs.)

Course No.	Course Title	Cr.Hrs.	Prerequisites
0900101	Introduction to Mass Communication	3	-
0900109	News Writing & Editing (I)	3	-
0900112	Technology of Mass Communication	3	0900101
0620215	Introduction to Communication Translation	3	-
0900110	Broadcasting Writing & Editing (I)	3	-
0620212	Readings in Mass Communication	3	0900101
0900218	Internet for Communication	3	0900214
0620302	Advanced Communication Translation	3	0620215
0900108	Communication Research Methods	3	0900101
0900317	Broadcasting Writing & Editing (II)	3	0900110
0900318	News Writing & Editing (II)	3	0900109
0900315	Communication Theories	3	0900101
0610310	Press Conference Translations	3	0620215
0900321	Mass Media in UAE & Gulf	3	0900101
0900214	Applications in Multimedia & Desktop Pub .	3	0900109
0900320	Photojournalism	3	0900317
0900403	Applications in Communication Research	3	0900108
0900401	Newspaper Design & Layout	3	0900318
0900402	Radio & TV Directing	3	0900317
0610341	Language of Newspapers - Eng./Arb.	3	0620215-0
0900407	Media Management	3	-
0610405	Translation for Electronic Media	3	0620212
0621401	Practical Training in Trans. & Com.	3	Completion of 75 Cr.Hrs.
0621402	Seminar in Com. & Trans.	3	0620302
0621403	Graduation Project in Com. & Trans.	3	Completion of 75 Cr.Hrs.
0900404	Public Opinion	3	0900101

6. Department Elective Courses (9 Cr. Hrs.)

Course No.	Course Title	Cr.Hrs.	Prerequisites
0900408	Media Laws & Ethics	3	0900101
0900322	Arab & International Communication	3	0900101
0900208	Advertising	3	0620215
0900217	Online Media	3	0900110, 0900318
0900316	Specialized Press	3	0900318
0900310	Documentary Programs	3	0900317

UNIVERSITY OF AL-QADISIYA COLLEGE OF COMMUNICATIONS

SEMESTER I

Course No.	Course Title	Cr.Hrs.	Prerequisites
0130130	Statistics		-
0311101	Information Technology Fundamentals		-
0500110	Islamic Studies		-
0500120	Arabic Language		-
0600101	English I		-

SEMESTER II

Course No.	Course Title	Cr.Hrs.	Prerequisites
0620215	Introduction to Communication Trans.		-
0900101	Introduction to Mass Communication		-
0600112	Reading Skills		600101
0600114	Speaking / Listening Skills		600101
0600116	Writing Skills		600101

SEMESTER III

Course No.	Course Title	Cr.Hrs.	Prerequisites
0620212	Readings in Mass Communication		0900101-0
0620302	Advanced Communication Translation		0620215-0
0900108	Communication Research Methods		0900101
0600251	Grammar of English I		0600101
-	Department Elective Course		-

SEMESTER IV

Course No.	Course Title	Cr.Hrs.	Prerequisites
0900109	News Writing & Editing (I)		0900101
0900110	Broadcasting Writing & Editing (I)		-
0900404	Public Opinion		0900101
-	University Elective Course		-
-	Department Elective Course		-

SEMESTER V

Course No.	Course Title	Cr.Hrs.	Prerequisites
0610405	Translation for Electronic Media		0620212-0
0900317	Broadcasting Writing & Editing (II)		0900110
0900318	News Writing & Editing (II)		0900109
-	University Elective Course		-
-	Faculty Elective Course		-
-	Department Elective Course		-

SEMESTER VI

Course No.	Course Title	Cr.Hrs.	Prerequisites
0621403	Graduation Project in Com. & Trans.		-
0900214	Applications in Multimedia & Desktop Publ.		0900109
0900320	Photojournalism		0900317
0900401	Newspaper Design & Layout		0900318
-	University Elective Course		-
-	Faculty Elective Course		-

SEMESTER VII

Course No.	Course Title	Cr.Hrs.	Prerequisites
0610341	Language of Newspapers		0620215
0900112	Technology of Mass Communication		0900101
0900218	Internet for Communication		0900214
0900315	Communication Theories		0900101
0900402	Radio and TV Directing		0900317
-	Faculty Elective Course		-

SEMESTER VIII

Course No.	Course Title	Cr.Hrs.	Prerequisites
0610310	Press Conference Translation		0620215-0
0621402	Seminar in Communication & Translation		0620302-0
0900321	Mass Media in UAE & Gulf		0900101
0900403	Applications in Communication Research		0900108
0900407	Media Management		0900317, 0900318
0621401	Practical Training in Translation & Communication		75 Cr. H.

COURSE DESCRIPTIONS

University Requirements

0600112 Reading Skills

The course starts with a brief description of what reading is, the characteristics of the reading process and what a good reader does. Then students are exposed to different topics in order to give them maximum time to develop reading through reading. Gradually they acquire reading speed and the different types of reading skills and strategies. As reading is a cognitive process, students are given the chance to develop critical thinking, inferencing and relate what they read to themselves and their environment.

0600116 Writing Skills

This course is designed to introduce the process of writing and teach students to produce paragraphs by generating, developing, and organizing ideas. Brief writing strategies and related grammar topics are presented to help students write more effectively. By providing them with a wide variety of stimulating topics to write on and exercises that go beyond sentences manipulation drills, students are encouraged to bring their own ideas and talents to the writing process.

0600251 Grammar of English I

This core course is the first of two courses, and between them they will provide a comprehensive survey of English grammar and provide the descriptive and analytic background necessary for the use of standard reference grammars.

060102 English II

This course familiarizes media students with the language of mass media. It helps them understand and use essential vocabulary in their study and prospective field of work. It systematically covers items, expressions structure and topics that frequently occur and recur in news editing and reporting.

0606111 Listening Speaking Skill

This course will develop the ability to hold conversations, a range of listening strategies, an appreciation of appropriate functional strategies, and the ability to give a talk or a presentation.

0610441 Translation Theory and Practice

This course is devoted to the study of both the theory and practice of translation. It examines in detail different principles and approaches, with practical illustrations and exercises.

0600252 Grammar of English II

This is the second of two core courses which are meant to provide a comprehensive survey of traditional English grammar and provide the descriptive and analytical background necessary for the use of standard reference grammars.

0600475 Word Processing for Editing

This course develops student abilities and skills in order to manage files on the computer, use word-processors and set up databases for their coursework, use electronic mail, search the Internet and World Wide Web for resources, consult online databases, use computerized glossaries, corpora, and use automatic translation packages.

0900101 Introduction to Mass Communication

This course is an essential prelude to the study of mass communication sources such as newspapers, radio, television and Internet which is the media of mass communication. It focuses on studying the communication operation per se and the various communication levels ranging from self, personal, group and institutional communication to mass communication.

0620215 Introduction to Communication Translation

This course is an essential introductory course to the study of advanced communication translation. The course seeks to teach the student the techniques and procedures of communication translation which is based on the good understanding of the communication text in the source language (SL) and rendering it in an appropriate Arabic style to suit the Arab readership. It also deals with the translation of media Hems, the importance of translation in the Arab media and the sources of translation material (news agencies, newspapers, radio, television & internet).

0620302 Advanced Communication Translation

This course aims at reinforcing the students' skills in the field of mass communication with special emphasis on communication terms and terminology and translation from English into Arabic. The course includes the translation and preparation of specialized subjects (e.g. economic, sports, art & literary etc.) for publication as well as the translation of foreign newspaper editorials, opinion articles and direct translation from foreign radios and TV stations. Students will be trained to translate communication materials taken from other sources such as those found on the web sites of the Internet. Training will also include the use of the Internet to obtain materials for translation in addition to various word and translated text processing software packages.

090018

Internet for Communication

The course aims at introducing students to the Internet, highlighting its importance either as an information medium or an industry. The course also covers other areas such as sound recording, video, news agencies, advertising agencies and new media technology.

090019

News Writing & Editing (I)

This course is an important general introduction to the various information arts. The course focuses on the art of journalism and monitors the development of human interest in the news. It introduces the prevailing concepts in the different information schools and sheds light on the causes of variation of these concepts. The course also emphasizes the importance of news in mass media such as newspapers, magazines, radio & TV stations.

090015

Communication Theory

This course aims at elucidating the nature, theories and models of communication and their relation to scientific knowledge. The course also covers the various models of communication such as self, personal, mass communication as well as theories related to the message, medium, the general public and the effects of media.

090010

Broadcasting Writing & Editing (I)

The course covers the basic principles of editing for radio and TV and the principles of gathering and editing news in these media. Students will be trained to follow and apply sound steps in editing the news for newscasts on television and radio and to identify the news values governing the selection of news for dissemination. It also covers methods of benefiting from human and non-human sources of news.

090012

Technology of Mass Communication

This course covers the technological tools used in mass media whether in the printed media or in the radio and TV. The course presents a historical survey of the development of media technology since the invention of the press, followed by the various means of transferring information such as the telegraph, the telephone, the radio, and radio and TV broadcasting stations, the fax, and finally the internet.

The course focuses on the connection between the development of media technology and the development of the new means of communication.

It also traces innovations in modern communication especially in the area of digital broadcasting and digital photography and their impact on the content and form of human communication.

The course aims at enlightening students with the necessary knowledge on the technology of mass communication and their utilization in various forms of the media as well as their direct or indirect effects on the social, cultural, political, and economic human activities.

090011

Computer Graphics

This course focuses on providing students with basic knowledge related to the technology of multimedia and desktop publishing, and the required training due to their importance as the most recent aiding tools in the development of the visual and printed media. Furthermore, the course presents students with the opportunity to acquire practical skills in the production of media products by using multimedia programs and desktop and electronic publishing through training them in the basics in these areas. In the area of multimedia, the course presents how to use it in the media and how to carry out an integrated multimedia project utilizing hardware, software, and communication tools.

090007

Non-Journalistic Writing

This course surveys the theoretical and practical basis for preparing non-journalistic material (background information, statistics, reports, documents, illustrations, drawings, tables etc.) for publishing in the printed media or for using them in the news, reports, and journalistic articles. Such a task is usually carried out by translators working in journalistic institutions, and in research centers belonging to these institutions.

090013

Newspaper Design (I)

This course presents theoretical and practical knowledge on the elements of layout and design of newspapers and magazines, and related typographical features. The course focuses on the basic typographical elements and methods of producing newspapers and magazines by using desktop and journalistic publishing programs such as Quark Express and Adobe PhotoShop.

0900301

Mass Media in the UAE and the Gulf

This course examines the historical, social, political, and cultural conditions under which mass media (journalism, radio, and TV) have emerged in the United Arab Emirates. On the basis of the historical perspective, the course discusses present conditions of the journalistic and broadcasting media in the Emirates, their governing legislative and legal frameworks and the future of the Emirates media under contemporary technological revolution.

0620212

Readings in Mass Communication

This course is a basic introduction for familiarizing students with the media texts in English in the fields of communication, journalism, radio, and TV. The course is concerned with media products in the West especially in America and the United Kingdom.

0900318

News Writing & Editing (II)

This course surveys the basic principles of journalistic writing by focusing on advanced journalistic writing such as reports, interviews, and articles. It presents the theoretical and practical background information in the field of preparing and editing reports, interviews, and the basic skills of writing various types of articles such as the editorial article, the analytical article, and the column.

0900317

Broadcasting Writing & Editing (II)

The course deals with the specific characteristics associated with writing for the radio and TV. It also deals with the preparation stage of news, variety shows, and entertainment programs, political broadcasts, documentations and programs specifically for women.

0900308

Communication Research Methods

The course provides students with fundamental theoretical and practical knowledge on research in the area of communication as well as its polarities.

0610310

Press Conference Translation

Because of the current growing importance of press conferences as major source of information from government officials, it is imperative that students be well acquainted with press conferences and

their effectiveness as a source of information and news, as well as how to run, organize and interpret the questions and answers heard in the language of the media s/he is working for.

0900320

Photojournalism

The course provides students with the basic theoretical foundation and practical training in the area of producing and utilizing the photograph in printed media, since it is considered a basic component of the contemporary industry of journalism. The course presents photojournalism in terms of professionalism, which requires both journalistic sense and aesthetic sensitivity.

0920402

Radio and TV Directing

The course deals with the importance of production for radio, TV, and the various methods involved in employing sound effects in audio-visual matters, the importance of decoration, unity, and rhythm in dealing with script.

0610341

Language of Newspapers

This course deals with the characteristics of the language used by the press and mass media both in Arabic and English and how that language is different from the language of science and colloquialism. The course aims at improving the student's journalistic writing in both English and Arabic by providing them with the principles and qualities of appropriately required journalistic writing and also by discussing model writings from famous Arab and foreign journalists.

0610404

Translation by Electronic Media

The course deals with the methods of translating radio and TV texts from English into Arabic and vice versa. It also deals with the translation of media items on the net.

0621101

Practical Training in Translation and Communication

This course provides students with the opportunity of practical training in media institutions which require translation duties, the nature of which is determined by the instructor of the course according to the practical training plans of the Faculty.

The student under training is supervised by those in charge of the media institution and by his/her instructor. The student selects one

of the media institutions that are bound by a cooperation agreement with the University. Student training includes familiarizing himself/herself with the divisions of the institutions, and practising various available media tasks such as gathering and editing news, preparing, editing, and executing programs; for editing newspapers and magazines with the emphasis on training for translation jobs from and into English.

0671102

Seminar in Communication and Translation

This course is designed to discuss a specific topic determined by the instructor in the media or in translation such as 'globalization of the media', or 'women and the media' etc, to enrich and broaden students' understanding of current media and linguistic issues. The topic of the course is selected from the current happenings and raised issues amidst academic and media circles at the time of the course being offered.

0671103

Journalism: English as a Foreign Language

The course instructor suggests topics, through a plan supervised jointly by both an instructor specialized in translation and a communication instructor. This course is offered to students who have completed 75 credit hours of study, in order to provide them with a practical course that combines both communication and translation.

0671104

Specialized Press

The importance of this course stems from the fact that the press is getting more and more specialized in its content and readership. The course seeks to promote the students' linguistic and communication skills through a theoretical and applied approach of the features of a specialized press. These are combined with the skills acquired in the program's translation courses as to how to transmit the content of this type of press, with all its variety, from Arabic into English and vice versa.

0671105

Journalism Ethics

This course provides students with a clear and detailed background on the regulations and ethics that govern journalism as a profession both regionally and internationally.

Topics such as freedom of the press in the world, the nature of information systems in the modern world are covered in discussion as are issues related to freedom of opinion and expression and human

rights. The course also deals with the world of information's own organisms in some countries with special reference to non-governmental bodies which act as watchdogs of media performance such as press councils, radio and journalist organizations. These are bodies and they apply radio and journalistic codes of honour to their deliberations.

0671107

Introduction to Mass Communication

This course provides students with basic information on the communication 'map' of the modern world including the mass media and various information systems.

It will also provide students with a brief presentation on the birth and development of the media in the modern world. It discusses the state of the media at present, particularly regarding the flow of news and information in the world, as well as the role played by international bodies and institutions in the field of international communication.

0671108

Electronic Press

Students will be kept abreast with recent developments of the press, particularly the electronic press published on the Internet. Radio stations and television channels on the net will also be dealt with, with special reference to Arab stations with a comparative approach vis a vis English speaking stations.

0671109

Documentaries

Students will be taught translation methods proper to documentaries from Arabic into English and vice versa, and how to transfer their original meaning, bearing in mind their background and culture, to the target language. Emphasis will be placed on audio-visual translations, where meaning has the priority, as well as transferring the cultural features of documentaries.

0671110

Advertising

Students will be taught the basics of advertising, as it is an important source of finance for the modern media. The course will not dissociate communication from translation; thus training students to translate various types of advertisements from English into Arabic and vice versa.

This course deals with the basic concepts and theories concerning the management of media institutes. It therefore focuses on fundamental elements in this process, like planning, programming, management, control, managerial leadership, decision making etc. Distinctive professional practice requires the existence of appropriate managerial and organizational potential like editing program production, and administrative aspects as in how to run a media institute. This will help to develop the students potential to deal with the environment of modern media institutes.

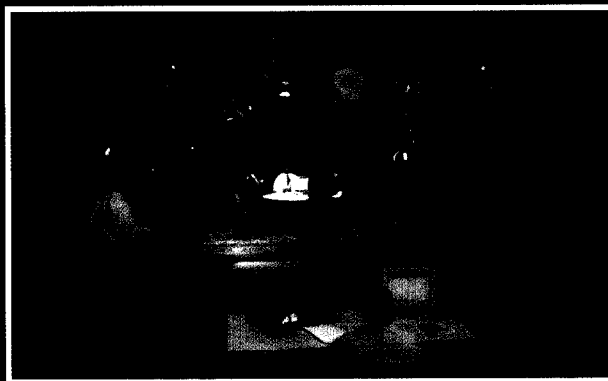
This course is concerned with the origin and development of public opinion, with its theoretical and practical dimensions at local, regional and international levels. The course also deals with the components of public opinion, its types, characteristics and means of influencing public opinion. Furthermore, public opinion investigates the relations between mass media and public opinion and its impact on decision-making.

This course deals with the practical training of students in carrying out research in the field of media. In doing so, they are asked to depend on the information they get from previous required courses. The students will be exposed to the practical aspects of communication research methods and procedures to enable them to do individual and group research topics. It gives specific importance to the method of media survey and its tools, for example the analysis of contents.

This course introduces students to aspects of western life and thought which are pertinent to language learning. It also aims to sensitize students to aspects of western culture, such as daily life routine, ways of thinking, socialization and taboo items.

This course aims at providing the students with the required translation strategies to enable him/her to have sufficient command of Arabic when translating between the two languages. As the two languages are of two different families and cultures, it follows that the course also focuses on the problematic linguistic areas of the two languages and tries to suggest solutions to these problems. Practically, it draws the attention of the course participants, whose mother tongue is Arabic, to the appropriate translations of linguistic stretches and items in both languages.

Academic Rank	No.
Professors	2
Associate Professors	8
Assistant Professors	16
Lecturers	52
Total	78



FACULTY OF INFORMATION, MASS COMMUNICATION & PUBLIC RELATIONS

E-mail: masscommunication@ajman.ac.ae

CONTENTS

Introduction	246
Mission	246
Objectives	247
Career Opportunities	248
B.A. in Mass Communication and Public Relations	248
Study Plan	248
Course Description	253
Faculty Members	257

Introduction

During the last few decades the world has witnessed huge quantitative and qualitative developments in the ways communication technologies have turned the world into a global village where the obstacles of time, place and distance have been challenged. Thanks to satellite systems, optical fiber nets, telecommunications and WEB nets, the flow of information has become faster, more interactive and dynamic. This in turn, reflects considerably on the interrelations of societies in their political, social, cultural, economic, and educational spheres. One of the obvious results of these changes is the emergence of information societies, whose economies are based on dealing with information either in its technical or intellectual form. In the light of the complexities created by the communication revolution, the acquisition of specific advanced skills has become imperative in order to cope with the innovations of the new era.

By and large, these skills include total proficiency in the English language (i.e. writing, speaking and listening skills) and with modern information technology and multimedia.

It is imperative that we prepare generations of well-qualified communicators capable of understanding and customizing the ideas and tools of the information age to serve the interests of the community. The establishment of the faculty of Information, Mass Communication and Public Relations at AUST is a further step towards achieving this objective.

MISSION

The Faculty of Information, Mass Communication and Public Relations seeks to disseminate the Communication Culture as a crucial component in the social and cultural life of the individual. The faculty also seeks to develop the academic field as an essential requirement of development and growth in U.A.E. society.

It aims at improving the practice of public relations and social marketing as essential careers to establish, improve and reinforce the image of private, public service and governmental sectors in U.A.E. society.



Objectives

The Mass Communication and Public Relations program seeks to prepare:

- specialists capable of dealing constructively and innovatively with the challenges of the Communication and Information Age with a view to serving the higher goals of the society.

- Competent communicators eligible to function in all public and private establishments. The aim is to prepare specialists of high caliber to work in the press, publication and journalism firms as well as in the news & photographic agencies and in the information departments. The study plan also seeks to provide the student with considerable theoretical knowledge and practical skills to qualify him/her to function as press editor, translator and director in addition to other technical and administrative duties in the press, publication and printing establishments.

- Specialists to work in radio & T.V stations, program production firms, film producing news agencies as well as in the information departments in all kinds of public & private establishments.

- Graduates to function as program producer, photographer, director, news editor, radio program producer in addition to other various technical & administrative tasks in radio & T.V establishments.

According to the vision and philosophy of AUST concerning the cyber zone and the new world, it is a must to prepare public relations and social marketing specialists to be able to practice the virtual activities and understand the social necessities of online communities, so the U.A.E. organizations can be effective in cyberspace.

- Specialists eligible to function in the various public relations management of all kinds & forms and in the communication administrations in the same way. The study plan also seeks to provide students with considerable theoretical knowledge and practical expertise that qualify them to cater to the needs of establishments to organize press campaigns, activities and relations with the media and consolidating internal & external channels of communication by means of a group of specialized and interdisciplinary courses. In light of the aforesaid objectives, the Mass Communication & Public

Relations program aims at providing students with knowledge & skills in the following fields:

- To study communication as a psychological and social process and emphasize the role of media in society, particularly those aspects pertaining to the levels, channels and effects of communication.

- To study contemporary mass media theoretically & technically in such a way as to master the basic skills required to function in the conventional & electronic press, radio, Television and public relations.

- To study the writing styles for press, radio, Television, public relations and advertisements in both English & Arabic. To attain the relevant skills to use the equipment and devices used in journalistic radio & Television production.

- To master the necessary procedures to use the multimedia equipment, programs & desktop publishing for mass communication & public relations.

- To conduct applied research on mass communication and public relations.

The college is also in the process of developing new specializations and a Master's degree program in mass communication and public relations.

CAREER OPPORTUNITIES

The Faculty offers a bachelor degree (B.A.) in MASS COMMUNICATION AND PUBLIC RELATIONS.

The graduates have extended opportunities to work in the fields of broadcasting (Radio & T.V.) , newspapers , public relations , social marketing, and advertising.

MASS COMMUNICATION AND PUBLIC RELATIONS

Study Plan:

Category	Cr. Hrs.
University Compulsory Courses	15
University Elective Courses	09
Faculty Compulsory Courses	90
Faculty Elective Courses	18
Total	132

University Compulsory Courses (15 Cr. Hrs.)

Course No.	Course Title	Cr. Hrs.	Prerequisites
0130130	Statistics	3	
0311101	I.T. Fundamentals	3	
0500110	Islamic Culture	3	
0500120	Arabic Language	3	
0600101	English (1)	3	

University Elective Courses (9 Cr. Hrs.)

Course No.	Course Title	Cr. Hrs.	Prerequisites
0110110	Mathematics (1)	3	
0150150	Scientific Pioneering & Patents	3	
0150151	History of Science in Islam	3	
0500130	General Psychology	3	
0600102	English (2)	3	0600101
0600412	Research Methodology	3	
0700100	Environment, Water, and Energy		

Faculty Compulsory Courses (90 Cr. Hrs.)

Course No.	Course Title	Cr. Hrs.	Prerequisites
0600112	Reading Skills	3	
0600114	Listening & Speaking Skills	3	
0600116	Writing Skills	3	
0600251	Grammar of English (1)	3	
0900101	Introduction to Mass Communication	3	
0900108	Communication Research Methods	3	0900101
0900109	News Writing & Editing (1)	3	
0900105	Introduction to Public Relations & Advertising	3	
0900112	Technology of Mass Communication	3	0900101
0900110	Broadcasting Writing & Editing (1)	3	
0900214	Applications in Multimedia & Desktop Publishing	3	0900109
0600212	Readings in Mass Communication	3	0900101
0900204	Public Relations Programs	3	0900105
0600215	Introduction to Communication Translation	3	
0900218	Internet for Communication	3	0900214
0900207	Principles of Social Marketing	3	
0900208	Advertising	3	0900105
0600302	Advanced Comm. Translation	3	0900215
0900317	Broadcasting Writing & Editing (2)	3	0900110
0900318	News Writing & Editing (2)	3	0900109
0900315	Communication Theories	3	0900101
0900313	Special Topics on Communication & Public Relations	3	0900317, 0900318, 0900204
0900401	Newspaper Design and Layout	3	0900318
0900402	Radio & TV Directing	3	0900317
0900403	Applications in Communication Research Methods	3	0900108
0900404	Public Opinion	3	0900101
0900405	Training & Graduation Project in Public Relations	3	Completion of 75 Cr. Hrs.
0900406	Training & Graduation Project in Mass Com.	3	Completion of 75 Cr. Hrs.
0900407	Media Management	3	0900317, 0900318
0900408	Media Laws & Ethics	3	0900101

Faculty Elective Courses (18 Cr. Hrs.)

Course No.	Course Title	Cr. Hrs.	Prerequisites
0600252	Grammar of English (2)	3	600251
0600435	Arabic Language for Translators	3	500120
0600475	Word Processing for Editing	3	
0610441	Translation: Theory & Practice	3	
0900104	Introduction to Communication Sociology	3	0900101
0900217	Online Media	3	0900110, 0900318
0900320	Photojournalism	3	0900317
0900308	Broadcast Delivery	3	0900317
0900322	Arab and International Communication	3	0900101
0900312	Information Society	3	
0900321	Mass Media in the UAE & Gulf	3	0900101
0900316	Specialized Press	3	0900318
0900310	Documentary Programs	3	0900317



IDEAL FOUR YEAR STUDY PLAN

First Semester

Course Code	Course Title	Cr. Hrs.	Pre-req
0900101	Introduction to Mass Communication	3	
0500110	Islamic Studies (University Requirement)	3	
0500120	Arabic language (University Requirement)	3	
0600101	English I (University Requirement)	3	
0311101	Introduction to Computer (University Requirement)	3	
Total		15	

Second Semester

Course Code	Course Title	Cr. Hrs.	Pre-req
0900112	Tech. of Mass Communication	3	0900101
0900109	News Writing & Editing (I)	3	
0900110	Broadcasting Writing & Editing (I)	3	
0900105	Introduction to Public Relations & Advertising	3	
	University Elective Course	3	
Total		15	

Third Semester

Course Code	Course Title	Cr. Hrs.	Pre-req
0900108	Communication Research Methods	3	0900101
0900214	Applications in Multimedia	3	0900109
0620212	Readings in Mass Communication	3	0900101
0620215	Introduction to Communication Translation	3	
0900104	Introduction to Media Sociology	3	
	University Elective Course	3	
Total		18	

Fourth Semester

Course Code	Course Title	Cr. Hrs.	Pre-req
0900204	Public Relations Programs	3	0900105
0900218	Internet for Communication	3	0900214
0900207	Principles of Social Marketing	3	
0900208	Advertising	3	0900105
0130130	Statistics (University Requirement)	3	
Total		15	

Fifth Semester

Course Code	Course Title	Cr. Hrs.	Pre-req
0620302	Advanced Communication Translation	3	0620215
0900317	Broadcasting Writing & Editing (2)	3	0900110
0900318	News Writing & Editing (2)	3	0900109
0600112	Reading Skills	3	
0600251	Grammar of English (1)	3	
	University Elective Course	3	
Total		18	

Sixth Semester

Course Code	Course Title	Cr. Hrs.	Pre-req
0600116	Writing Skills	3	
0900315	Communication Theories	3	0900101
0900313	Special Topic on Communication & Public Relations	3	0900317 - 0900318 - 0900204
0600114	Listening & Speaking Skills	3	
0600252	Grammar of English (2)	3	
	Faculty Elective Course	3	
Total		18	

Seventh Semester

Course Code	Course Title	Cr. Hrs.	Pre-req
0900401	Newspaper Design & Layout	3	0900318
0900402	Radio & T.V. Directing	3	0900317
0900403	Application in Communication Research	3	0900108
0900405	Training & Graduation Project in Public Relations	3	Completion of 75 Cr. Hrs.
	Faculty Elective Course	3	
Total		18	

Eighth Semester

Course Code	Course Title	Cr. H	Pre-req
0900406	Training & Graduation Project in Mass Communication	3	Completion of 75 Cr. Hrs.
0900404	Public Opinion.	3	0900101
0900407	Media Management	3	0900317 - 0900318
0900408	Media Laws & Ethics	3	0900101
	Faculty Elective	3	
Total		15	

COURSE DESCRIPTIONS

0600112

Reading Skills

The course starts with a brief description of what reading is, the characteristics of the reading process and what a good reader does. Students are exposed to different topics in order to give them maximum time to develop critical reading skills.

0600114

Speaking-Listening Skills

This course develops the ability to hold conversations, widen the range of listening strategies, extend an appreciation of appropriate functional strategies, and the ability to give a talk or presentation.

0600116

Writing Skills

This course is designed to make students practice English sentence forms. The logical progression begins with a brief study of simple sentences and sentence fragments to writing complex phrases and paragraphs.

0600251

Grammar of English I

This core course is the first of two courses which jointly provide a comprehensive survey of English grammar and provide the descriptive and analytic background necessary for the use of standard reference grammar.

0900101

Introduction to Mass Communication

This course is an essential prelude to the study of newspapers, radio, television, Internet and communication technologies. It focuses on studying the communication process per se and the various communication levels ranging from interpersonal, group, institutional and mass communication.

0900105

Intro. to Public Relations & Advertising

This course aims at providing students with a solid background in the nature of public relations and advertising in terms of evolution, development, and key concepts.

0600215

Intro. to Communication Translation

This course is an essential introductory course to the study of communication translation. The course seeks to teach the student the techniques and procedures of communication translation. It also

deals with translation of news, the importance of translation in the Arab media and the sources of translation material (news agencies, newspapers, radio, television, the internet, etc).

0900109

News Writing & Editing I

This course is an introduction to the basic rules for press editorial, critical and analytical reporting and column writing. The course aims at training and familiarizing students with journalistic writing style and genre.

0900112

Technology of Mass Communication

This course covers the technological tools used in mass media whether in print media or in radio and TV. The course presents a historical survey of the development of media technologies since the invention of the press, followed by the various means of transferring information such as the telegraph, telephone, radio and TV broadcasting stations, fax, Internet and digital media.

0900110

Broadcast Writing & Editing (I)

The course covers the basic principles of editing for radio and TV and the principles of gathering and editing news in each medium. Students are trained to apply the steps in editing the news for television and radio and to identify the news values governing the selection of news for dissemination.

0900214

Applications in Multimedia & Desktop Publishing

This course focuses on providing students with basic knowledge related to the technology of multimedia and desktop publishing. Furthermore, the course gives students the opportunity to acquire practical skills in production by using multimedia programs and desktop and electronic publishing through practical training.

0900204

Public Relations Programs

This course deals with the production and dissemination of institutional communication materials. These include written (newspapers, magazines, booklets, leaflet or posters), audio-visual (radio, TV, documentary films, TV programs) and/or the internet.

0900218

Internet for Communication

The course aims at introducing students to the internet (past, present and future), highlighting its importance both as an information medium and as an industry.

0600302

Advanced Communication Translation

This course aims at reinforcing the students' skills in the field of mass communication with special emphasis on the communication terms and terminology and translation from English into Arabic.

0900318

News Writing & Editing 2

This course surveys advanced principles of journalistic writing by focusing on reports, interviews, and feature stories. The course presents theoretical and practical information in journalistic writing and editing.

0900317

Broadcast Writing & Editing 2

The course deals with the specific characteristics associated with writing for radio and TV. It also deals with the preparation of news, variety shows, and entertainment programs, programs for women, and political shows. The student learns types of broadcasting programs such as : magazines, radio and television, editing and writing news, drama programs script and drama.

0900207

Principles of Social Marketing

This course deals with marketing from social and communication point of views. It concentrates on the social marketing of ideas, public projects and public institutions. It also concentrates on the strategic role the mass media play as tools of marketing to reach target audiences.

0900208

Advertising

This course deals with the **various** kinds of advertisements and advertising campaigns as a communication process and a powerful tool in marketing and economic activities besides being an important economic resource for the communication firm. The course also

deals with the definition of advertising, its development, various types & forms and its technical aspects in terms of design, editing and production.

0900315

Communication Theories

This course elucidates the nature, theories and models of communication and their relation to scientific knowledge. The course also covers the various models of communication such as personal, mass as well as theories related to the message, medium, the general public and the effects of media.

0900401

Newspaper Design & Layout

This course presents theoretical and practical knowledge on layout design of newspapers and magazines, and related topographical features. The course focuses on basic topographical elements and methods of producing newspapers and magazines by using desktop and journalistic publishing programs such as Quark Express and Adobe Photoshop.

0900402

Radio & TV Directing

The course deals with the importance of production for radio, TV and the various methods involved in employing sound effects in audio-visual matters, the importance of decoration, unity, and rhythm in dealing with scripts.

0900407

Media Management

This course is concerned with the study of the basic concepts of the management of communication establishments, newspapers, magazines, radio and TV: characteristics, duties and interrelations.

0900408

Media Laws & Ethics

This course provides students with a detailed background on the regulations and ethics that govern the journalistic profession both regionally and internationally. Topics such as freedom of the press and the nature of information systems will also be discussed. Topics related to freedom of opinion and expression, journalistic codes of honor, NGO's contribution to media performance.

0900108

Communication Research Methods

The course provides students with the fundamental theoretical and practical tools that enable them to conduct research in the field of mass communication. Students learn how to collect and analyze research data using different research methods (survey research, content analysis, field research, etc..)

0900403

Applications in Communication Research Methods

This course shows students how to apply communication research methods. Students are expected to conduct research using the elements and steps of the scientific method as discussed in previous courses (e.g., communication research methods).

0900404

Public Opinion

This course discusses the concept of public opinion, its development, nature and role in society. It also deals with how public opinion is formed, measured, and the types of research in the field. It investigates the various types of public opinion and the relation between media and public opinion. The course focuses on providing the student with theoretical and practical knowledge of the characteristics of public opinion and how it is measured in different societies.

0900405

Training & Graduation Project in Public Relations

The project is carried out according to a plan supervised by both an instructor specialized in Public Relations and a Public Relations practitioner.

0900406

Training & Grad. Project in Mass Communication

This course provides students with the opportunity of practical training in media institutions. Training duties are determined by the instructor of the course. The student under training is supervised by people in charge of the media institution and his/her instructor jointly.

0900313

Special Topic on Communication & Public Relations

This course discusses a specific problem related to an important

topic in either communication. The aim of this is to enrich and develop the understanding of the problem and come out with inferences and ideas relevant to our present Arab state.

0620212

Readings in Mass Communication

This course is a basic introduction to media texts in English, in the fields of communication, journalism, radio, and TV. The course is concerned with the products of western media, with its various fields and branches, especially the American and the British schools.

0600252

Grammar of English 2

This is the second of two core courses which provide a comprehensive survey of English grammar and the descriptive and analytical background necessary for the use of standard reference grammars.

0600475

Word Processing for Editing

This course teaches students how to use various Word Processing software to type and print out documents.

0610 441

Translation: Theory and Practice

The course is devoted to the study of both the theory and practice of translation. It examines in detail different principles and approaches, with practical illustrations and exercises.

0900104

Introduction to Communication Sociology

This course focuses on the inevitable social role of communication. Communication is considered to be an efficient tool for human interactions, influencing other social institutions in the process of socialization. The course clarifies the functions and dysfunction of mass communication in society.

0900322

Arab & International Communication

This course provides students with basic information on the communication 'map' of the Arab world including the mass media and various information systems. It also provides students with a brief presentation on the development of media in the Arab world and selected western countries.

0900320

Photojournalism

The course provides students with the basic theoretical foundation and practical training in the area of producing and utilizing photography in print media. The course presents photojournalism in terms of professionalism, which requires both journalistic sense and aesthetic sensitivity.

0900217

Online Media

Students are kept at pace with recent developments in the electronic press published on the Internet. Radio stations and television channels on the net are also explored, with special reference given to Arab stations.

0900316

Specialized Press

The importance of this course stems from the fact that the press is getting more specialized in its content and readership. The course develops the students' knowledge and skills in sports, economic, artistic, scientific, medical and social affairs media.

0900312

Information Society

The course focuses on the information revolution. It concentrates on the characteristics of the information society, its consequences, challenges, and future implications. The course clarifies the position of our Arab world and other countries on the map of information markets, incorporating production, marketing, and consumption.

0900308

Broadcast Delivery

The course tackles the fundamental rules of perfect delivery and its technical bases. It provides the students with the theoretical and practical knowledge of the bases of a perfect anchoring performance in front of the microphone and behind the camera. Rhythm of the delivery, articulation of letters, phonetic attributes of letters, vocal tones and pauses will be taught to the students.

0900321

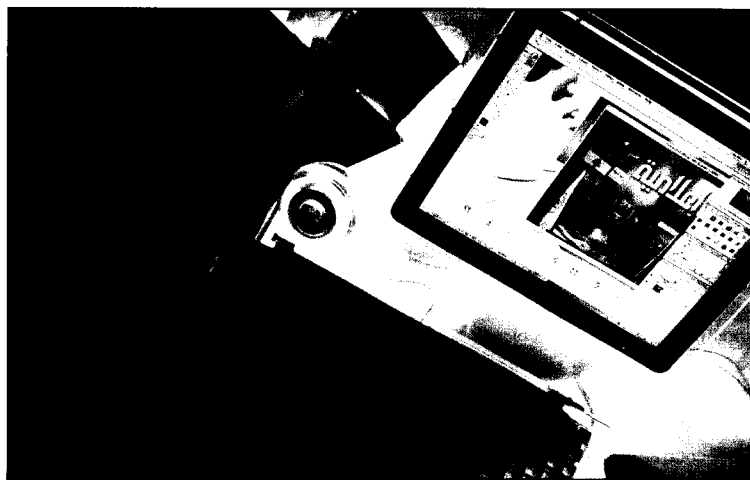
Mass Media in the UAE & the Gulf

This course examines historical, social, political, and cultural conditions under which mass media (journalism, radio, and TV) and new communication technologies have emerged in the region. On the basis of an historical perspective, the course discusses present conditions of the journalistic and broadcasting media in the Emirates, their governing legislative and legal frameworks, and the future of the Emirates media under contemporary technological revolution.

0900310

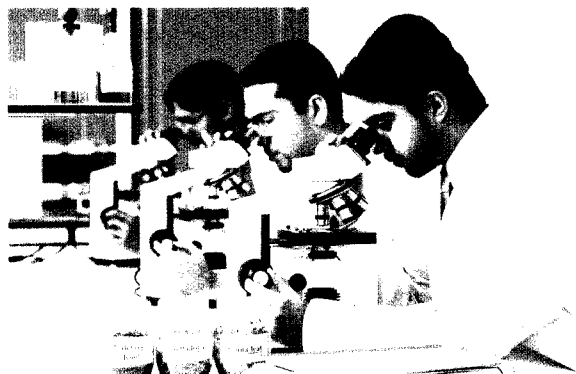
Documentary Programs

Students are taught how to write, produce and direct documentaries. Emphasis is placed on artistic documentary production.



**FACULTY MEMBERS
ACADEMIC YEAR 2004-2005**

Academic Rank	No.
Professors	1
Associate Professors	5
Assistant Professors	12
Lecturers	1
Total	19
Dean	1
Deputy Deans	4



FACULTY OF PHARMACY AND HEALTH SCIENCES

1. Introduction	262
2. Mission	263
3. Objectives	263
4. Degrees offered	263
5. Admission Requirements	263
6. Career Opportunities	263
7. Graduation Requirements For Bachelor Of Pharmacy	264
7.1. University Requirements	264
7.1.1. Compulsory Courses	264
7.1.2. Elective Courses	264
7.2.1. Compulsory Courses	265
7.3. Four Year Study Plan	268
7.4. Field Training	272
8. Course description	272

The past decade has witnessed major changes in the practice of pharmacy towards new and expanded rules in health care delivery all over the world. Based on these changes, the mission of the Faculty of Pharmacy and Health Sciences (FOPHS), Ajman University of Science and Technology (AUST), is to educate students to lead socially useful and productive lives, serving the needs of society and health related professions in order to join the world in this field.

Our Faculty was founded in the academic year 1996/1997 under the name of "Faculty of Pharmacy". In 1998 the name of the Faculty was changed to "Faculty of Pharmacy and Health Sciences" (FOPHS) in accordance with the philosophy adopted by AUST in establishing the Innovative Medical Environment which, besides pharmacy, embraces other related health sciences, i.e. dentistry, medical technology, nursing, etc.

The establishment of the FOPHS was essential to meet the big demand for pharmacists to work in hospitals and community pharmacies and to provide the manpower for the increasing number of private pharmacies and growing pharmaceutical industry in UAE and the region.

The Bachelor of Pharmacy program at AUST started in Ajman campus in September 1996 with a first batch of 72 students with an aim to produce well-qualified pharmacy graduates.

The first B. Pharm. students were graduated in the academic year 99/2000.

A Campus in Al Fujairah was established in the academic year 2002/2003.



Since its establishment the Faculty adopted a Mission Statement which emphasizes the contribution to the quality of health care by graduating pharmacists competent to provide pharmaceutical care in the community, hospitals, researching aspects of drug use, and assisting health care providers, the public and patients in improving and delivering health care.

Our mission fits with that of (AUSTN) which states the university will provide the society with competent graduates who can deal with modern technologies and their applications in developmental programs, to offer students modernized teaching and learning methodologies adapted and customized to the values, tradition and needs of the society, to bridge the gap between the academic realm and business society through emphasizing the concept of research, training, consultancy and practice.

- * Prepare students to become pharmacy professionals competent to work in hospitals, community pharmacies, and in the pharmaceutical industry.

- * To provide a high quality accredited professional degree program.

- * To provide clinically oriented pharmaceutical sciences based on rational use of medicines (pharmaceutical preparations) for treatment of diseases.

- * To emphasize the need for life-long learning as an integral part of the curriculum.

- * Establish recognition throughout the country by academia, concerned governmental authorities, and the public.

- * Provide scientific information dealing with health problems common to the society.

- * Refresh and increase knowledge of pharmacy practitioners and other related professionals.

- * Promote basic and applied research in pharmaceutical sciences and pharmacy practice.

- * Discover and disseminate knowledge related to drug effectiveness, potential adverse reactions, and new methods of primary pharmaceutical care.

The program of the undergraduate study in the Faculty of Pharmacy and Health Sciences, leads to the Bachelor of Pharmacy (B. Pharm.) after completion of 150 credit hours

Prospective candidates seeking admission to the Bachelor of Phar-

macy (B. Pharm) should fulfill the following requirements:

Secondary school certificate or its equivalent with not less than 70% marks in aggregate and approved by the Ministry of Education, UAE.

Passing English proficiency test

Passing personal interview

Having good conduct and maturity

(See the university admission requirements for more details).

The pharmacy student will be awarded the degree of bachelor of pharmacy (B. Pharm) after completing successfully at least (150 cr. hrs.) one hundred and fifty credit hours including the University requirement courses.

The curriculum is designed and continuously developed in a way that aids the students in the effective delivery of pharmaceutical services in the private sector as well as in governmental services. Pharmacy graduates have the opportunity to work in different placements related to the pharmacy profession. These placements are as follows:

- Community pharmacies

- Hospital pharmacies

- Pharmaceutical industry

- Pharmaceutical scientific laboratories

- Whole sale drug stores

- Medical representations

- Pharmaceutical administration

- Food control and analysis

- Pharmaceutical education and research

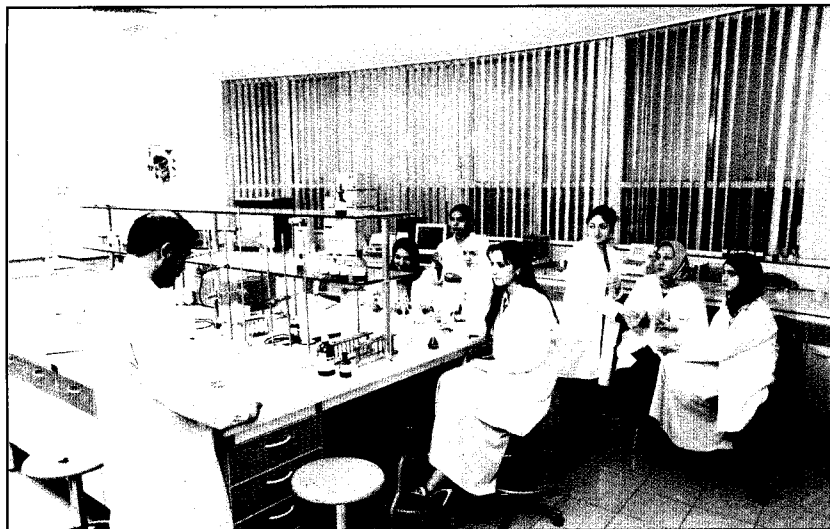


Code	Subject	Cr.Hrs.	Lec.	Pr.	Pre-req.
0500110	Islamic Culture	3	3	-	Xxx xxx
0500120	Arabic Language	3	3	-	Xxx xxx
0600101	English I	3	3	-	Xxx xxx
0310100	Information Technology Fundamentals	3	2	2	Xxx xxx
0130130	Statistics	3	3	-	Xxx xxx

English and Arabic Language Courses are offered in the 1st and 2nd Semesters of the 1st Year.

Code	Subject	Cr.Hrd.	Lec.	Pr.	Pre-req.
0600102	English II	3	3	-	0600101
0500130	General Psychology	3	3	-	Xxx xxx
0540300	Research Methodology	3	3	-	Xxx xxx
0110110	Mathematics	3	3	-	Xxx xxx
0150150	Scientific Pioneering and Patents	3	3	-	Xxx xxx
0150151	History of Sciences in Islam	3	3	-	Xxx xxx

Course Title	Course #	Prerequisite	Cr.Hrs.
1. Introduction to Pharmacy	0700111	XXXX	3
2. Physical Pharmacy I	0700112	0700111	3
3. Physical Pharmacy II	0700212	0700112	3
4. Pharmaceutical Dosage Forms I	0700213	0700112	3
5. Pharmaceutical Dosage Forms II	0700214	0700213	3
6. Biopharmaceutics & Pharmacokinetics I	0700311	0700214+0700422	3
7. Biopharmaceutics & Pharmacokinetics II	0700312	0700311	3
8. Pharmaceutical Technology	0700413	0700214	4
9. Pharmaceutical Technology Training	0700415	0700413	3
10. Pharmaceutical Legislations	0700416	0700432	1
11. Marketing and Sales	0700417	0700442	1
12. O.T.C. Drug and Products	0700418	0700331	3
13. Project	0700421	115 Cr.H.	3



7. PHARMACEUTICAL CHEMISTRY

Course Title	Course #	Prerequisite	Cr.Hrs.
1. Pharmaceutical Botany	0700124	XXXX	3
2. General Pharmacognosy	0700127	0700124	4
3. Pharmaceutical Organic Chemistry I	0700128	XXXX	3
4. Pharmaceutical Organic Chemistry II	0700129	0700128	3
5. Pharmaceutical Analytical Chemistry I	0700222	0700128	3
6. Pharmaceutical Analytical Chemistry II	0700223	0700222	3
7. Phytochemistry	0700321	0700127+0700425	4
8. Medicinal & Pharmaceutical Chemistry I	0700323	0700129+0700333	3
9. Medicinal & Pharmaceutical Chemistry II	0700324	0700323	3
10. Instrumental Analysis I	0700422	0700223	3
11. Project	0700421	115 Cr.H.	3
12. Instrumental Analysis II	0700425	0700422	3



Course Title	Course #	Prerequisite.	Cr.Hrs.
1. Principles of Human Anatomy & Physiology I	0700135	XXXX	4
2. Principles of Human Anatomy & Physiology II	0700136	0700135	3
3. Biochemistry I	0700231	0700129	3
4. Biochemistry II	0700232	0700231	3
5. Pharmacology and Therapeutics I	0700235	0700136	3
6. Pharmacology and Therapeutics II	0700238	0700235	3
7. Pharmacology and Therapeutics III	0700331	0700238	3
8. Pharmaceutical Microbiology & Immunology	0700333	0700231	4
9. Pathology / Pharmacy	0801318	0700333	2
10. Toxicology and Chemotherapy	0700432	0700331+0801318	3
11. Bioassays & Drug Screening	0700434	0130130+0700331	3
12. Project	0700421	115 Cr.H.	3

Course Title	Course #	Prerequisite.	Cr.Hrs.
1. Clinical Pharmacy I	0700442	0700312+0700331	3
2. Clinical Pharmacy II	0700443	0700442	3
3. Community Pharmacy Training I	0700314	30 Cr.H. +700111	3
4. Community Pharmacy Training II	0700316	0700314+0700442	3
5. Hospital Pharmacy Training	0700315	0700331	3
6. Clinical Pharmacy Training	0700317	0700442+0700418	3
7. Project	0700421	115 Cr.H.	3

(One 3 Cr.H. Faculty optional is required for graduation)

Course Title	Course #	Prerequisite.	Cr.Hrs.
1. Clinical Biochemistry	0700537	0700232+0700331	3
2. Clinical Microbiology	0700534	0700333	3
3. Pharm. Biotechnology	0700515	0700231	3
4. Gene Therapy	0700535	0700232+0700333	3
5. Phytotherapy	0700522	0700321	3
6. Nuclear Pharmacy	0700527	0700331	3
7. Community Pharmacy Training III	0700318	0700316	1

7.3. FOUR YEAR STUDY PLAN

The curriculum is designed according to the following criteria:

- * Providing a sound theoretical knowledge in chemistry, biology and social and behavioral sciences with special emphasis on pharmaceutical fields.
- * Strengthening moral and ethical consideration in addition to technical matters.
- * Carefully integrating of knowledge to avoid fragmentation and consequential loss of opportunities for students to develop deep approaches to learning.
- * Providing opportunities to emphasize and develop higher-level intellectual skills, such as problem solving and critical thinking.
- * Learning practical skills and techniques relevant to the discipline.
- * Reflecting the needs of the society and the students.
- * Introducing students to the concept and scope of pharmaceutical care and pharmacy practice in general.
- * Providing students with necessary information regarding the variety of the discipline and the will to contribute to their pharmaceutical education.
- * Providing the scientific principles and concepts fundamental to subsequent curricular experience, and skill.

The above mentioned criteria in the development curriculum aids the students in the effective delivery of pharmaceutical services in the private sector as well as in governmental services, including drug store management, community pharmacy, hospital and clinical pharmacy, marketing and medical detailing. The curriculum offers options to graduates in pharmacy for jobs in production and quality control areas, administration and management, and research and development in the pharmaceutical industry, hospitals and teaching. Some graduates may also like to go for higher education in different branches of pharmaceutical sciences or management. Some with entrepreneur ability may start their own production and other business outlets.

PHARMACY PROGRAM

Code	Subject	Cr.Hrs.	Lec.	Pr.	Pre-req.
0310100	Information Technology Fundamentals	3	2	2	XXXXX
0700111	Introduction to Pharmacy	3	2	2	XXXXX
0700124	Pharmaceutical Botany	3	2	2	XXXXX
0700128	Pharmaceutical Organic Chemistry I	3	2	2	XXXXX
0700135	Principles of Human Anatomy and Physiology I	4	3	2	XXXXX
0600101	English I (Univ. Req.)	3	3	0	XXXXX
Total		19	14	10	

Code	Subject	Cr.Hrs.	Lec.	Pr.	Pre-req.
0700112	Physical Pharmacy I	3	2	2	0700111
0700127	General Pharmacognosy	4	3	2	0700124
0700129	Pharmaceutical Organic Chemistry II	3	2	2	0700128
0700136	Principles of Human Anatomy & Physiology II	3	2	2	0700135
0700222	Pharmaceutical Analytical Chemistry I	3	2	2	0700128
	Optional Course (Univ. opt.)	3	3	0	XXXXX
Total		19	14	10	

Code	Subject	Cr.Hrs.	Lec.	Pr.	Pre-req.
0700212	Physical Pharmacy II	3	2	2	0700112
0700213	Pharmaceutical Dosage Forms I	3	2	2	0700112
0700223	Pharmaceutical Analytical Chemistry II	3	2	2	0700222
0700231	Biochemistry I	3	2	2	0700129
0700235	Pharmacology and Therapeutics I	3	2	2	0700136
0700314	Community Pharmacy Training-I	3	-	-	After 30 Cr.H.+0700112
0130130	Statistics (Univ. Req.)	3	3	-	XXXXX
Total		21	13	10	

Semester 4

Code	Subject	Cr.Hrs.	Lec.	Pr.	Pre-req.
0500110	Islamic Studies (Univ. Req.)	3	3	-	XXXXX
0700214	Pharmaceutical Dosage Forms II	3	2	2	0700213
0700232	Biochemistry II	3	2	2	0700231
0700333	Pharmaceutical Microbiology and Immunology	4	3	2	0700231
0700238	Pharmacology and Therapeutics II	3	2	2	0700235
0700422	Instrumental Analysis I	3	2	2	0700223
Total		19	14	10	

Semester 5

Code	Subject	Cr.Hrs.	Lec.	Pr.	Pre-req.
0700311	Biopharmaceutics & Pharmacokinetics I	3	2	2	0700214+0700422
0700323	Medicinal & Pharmaceutical Chemistry I	3	2	2	0700129+0700333
0700331	Pharmacology and Therapeutics III	3	2	2	0700238
0700425	Instrumental Analysis II	3	2	2	0700422
0801318	Pathology / Pharmacy	2	2	0	0700333
	Optional Course (Univ. opt.)	3	3	0	XXXXX
Total		17	13	8	

Semester 6

Code	Subject	Cr.Hrs.	Lec.	Pr.	Pre-req.
0500120	Arabic Language (Univ. Req.)	3	3	0	XXXXX
0700312	Biopharmaceutics and Pharmacokinetics II	3	2	2	0700311
0700321	Phytochemistry	4	3	2	0700127+0700425
0700324	Medicinal & Pharmaceutical Chemistry II	3	2	2	0700323
0700413	Pharmaceutical Technology	4	3	2	0700214
	Optional Course (Univ. opt.)	3	3	0	XXXXX
Total		20	16	8	

Semester 7

Code	Subject	Cr.Hrs.	Lec.	Pr.	Pre-req.
0700315	Hospital Pharmacy Training-I	3	-	-	0700331
0700415	Pharmaceutical Technology Training	3	-	-	0700413
0700418	OTC Drugs and Products	3	2	2	0700331
0700432	Toxicology & Chemotherapy	3	2	2	0700331+0801318
0700442	Clinical Pharmacy I	3	2	2	0700312+0700331
	Faculty Optional course	3	2	2	After 115 Cr.H.
Total		18	8	8	

So

Code	Subject	Cr.Hrs.	Lec.	Pr.	Pre-req.
0700316	Community Pharmacy Training-II	3	-	-	0700314+0700442
0700317	Clinical Pharmacy Training	3	-	-	0700442+0700418
0700416	Pharmaceutical Legislations	1	1	-	0700432
0700417	Marketing & Sales	1	1	-	0700442
0700421	Project	3	2	2	after 115 Cr. H.
0700434	Bioassays and Drug Screening	3	2	2	0130130+0700331
0700443	Clinical PharmacyII & First Aid	3	2	2	0700442
Total		17	9	4	



Every student has to have field training of not less than 600 contact hours divided as follows:

Training in hospital pharmacy for a period not less than two hundred and forty hours (equivalent to 6 credit hours).

Training in Community Pharmacy for a period of not less than two hundred and forty hours (equivalent to 6 credit hours).

Training in pharmaceutical industry for a period of not less than one hundred and twenty hours (equivalent to 3 credit hours).

The faculty established a centralized training committee to supervise training of the students in all these settings in collaboration with the field supervisor at the place of training.

DEPARTMENT OF PHARMACEUTICS

0700101

Introduction to Pharmacy

An introduction to the prescription, dosage forms and the basic technique of compounding simple solutions, including definitions, Latin terms, weighing, measuring and pharmaceutical calculations.

0700112

Physical Pharmacy I

The course comprises the application of physiochemical principles to pharmaceutical systems like - solubility and distribution phenomena, buffers, rheology, interfacial phenomena, isotonic solutions, complexation, and stability and reaction kinetics.

0700212

Physical Pharmacy II

Continuation of Physical Pharmacy I (700112)

0700213

Pharmaceutical Dosage Form I

Principles and techniques involved in the formulation, preparation and evaluation of solid dosage form. Physical properties of powders, preparation of bulk and divided powders, and methods of tablet and capsule manufacture. Discussion of rectal drug absorption, formulation and evaluation of suppositories.

This course covers sterile liquid preparations including parenteral and ophthalmic preparations, advantages, formulations, packaging etc... The course includes also an introduction on stability studies and predictions of shelf life of pharmaceuticals.

The course introduces the student to the changes in the drug's absorption, distribution and elimination time following one compartment I.V bolus, oral absorption and I.V infusion. The lectures provide students with principle of the linear and non-linear pharmacokinetic models and their application. The principles of clinical pharmacokinetics are also introduced.

0700312

Pharmaceutics I

Continuation of Pharmaceutics I

The course covers different factors which can influence the concentration-time course of drug and hence can modify its effectiveness and safety. These include pharmaceutical and environmental factors, or these related to the patient's condition whether physiological or pathological.

0700313

Pharmaceutics II

The course comprises the knowledge of pharmaceutical plant design, quality control, machinery, the theoretical background and practical demonstration of different manufacturing processes like: heat transfer, mass transfer, particle size, analysis, mechanism of mixing, filtration centrifugation, extraction, evaporation, drying, crystallization, emulsification and packaging technology.

0700314

Pharmaceutics III

The course includes introduction to the principles, theory and processes involved in the manufacture and extemporaneous compounding of the fundamental classes of dosage forms, parenteral, ophthalmic and other non-oral drug delivery systems.

Pharmacy Law **Pharmacy Law (0700128)**

The study of the law of the United Arab Emirates No. (4) for the year 1983 concerning the pharmacy profession and all pharmaceutical institutions.

Pharmacy Practice **Pharmacy Practice (0700129)**

The course covers general aspects of selling, prescribing process, and retail selling. Also covered within the course are the principles of marketing and various concepts of product planning

Pharmaceutical Biotechnology **Pharmaceutical Biotechnology (0700130)**

This course introduces the student to the fundamentals of biotechnology and its application in the various scientific fields. The course also entails the different methods adopted for preparation of biotechnology products and their evaluation, handling and storage

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY & PHARMACOGNOSIS

Pharmacognosy **Pharmacognosy (0700131)**

This course deals with the study of medicinal plants and their botanical structure such as cell differentiation, cell contents and the general study of the plant organs macroscopically and microscopically.

Pharmacognosy **Pharmacognosy (0700132)**

Pharmacognosy deals with the general study of important medicinal plants. The study includes their origin, morphology, histology, constituents and uses. The drugs are classified into groups according to their main therapeutic values.

This course presents the fundamentals of certain topics in organic chemistry, which include aliphatic and aromatic hydrocarbons, alkyl and aryl halides, alcohols, ethers and epoxides. It emphasizes the pharmaceutical importance of these functional groups.

Pharmaceutical Organic Chemistry II **Continuation of Pharmaceutical Organic Chemistry I (0700128)**

Pharmaceutical Analytical Chemistry I **Pharmaceutical Analytical Chemistry I (700128)**

The course covers chemical purity and its control; pharmacopoeial standards and specifications, theoretical basis of quantitative analysis of the pharmaceutical compounds volumetric methods based on acid-base, oxidation-reduction, precipitation, diazotization, complexation and non-aqueous titrations and gravimetric method.

Pharmaceutical Analytical Chemistry II **Continuation of Pharmaceutical Analytical Chemistry I (700222)**

This course covers the chemistry of crude drugs such as volatile oils, glycosides, alkaloids, bitter principles, resins and saponins, etc. The study covers the chemical and physical properties, identification tests, and methods of isolation and methods of assays.

Pharmaceutical Chemistry I **Introduction to pharmaceutical and medicinal chemistry: Drug design and structure-activity relationship; physicochemical properties, mode of action and drug metabolism Chemotherapy, sulphonamides; antibiotics, antineoplastic; antimalarial, antifungal, antiviral, antitubercular, Anthelmintic, antitrichomonal and antihelharzial agents.**

Pharmaceutical Chemistry II **Introduction to pharmaceutical and medicinal chemistry: Drug design and structure-activity relationship; physicochemical properties, mode of action and drug metabolism Chemotherapy, sulphonamides; antibiotics, antineoplastic; antimalarial, antifungal, antiviral, antitubercular, Anthelmintic, antitrichomonal and antihelharzial agents.**

070427

Instrumental Analysis I

The course deals with an introduction and survey of instrumental methods, electrochemical methods: conductometry, potentiometry, amperometry and polarography.

070041

Instrumental Analysis II

This course introduces a concept of applying the available instruments used for separation of mixtures as well as qualitative and quantitative analysis of medicinal and pharmaceutical formulated medicines. The course covers different chromatographic methods and techniques (PC, TLC, IEC, CC, GPC, GC, HPLC) in addition to nuclear magnetic resonance and mass spectroscopy.

070051

Phytotherapy (Faculty Optional Course)

Study of medicinal plants and other naturally occurring medicinal compounds intended for treatment of different ailments of the human body, following the Phytotherapy treatment. The study includes knowledge of active constituents of these natural products, suggested pharmacokinetic & pharmacodynamic effects of these constituents, as well as its appropriate dosage forms. Monographs on Materia Medica of selected medicinal herbs are also included in the study.

070057

Nuclear Pharmacy (Faculty Optional Course)

The course provides a comprehensive discussion of the fundamentals in the field of nuclear pharmacy. Topics include the preparation and quality control of clinically useful radiopharmaceuticals. Procedures and techniques involved in handling, disposition, and use of radioisotopes in nuclear pharmacy practice are discussed. Diagnostic and therapeutic uses of radiopharmaceuticals and their adverse reaction are included.

DEPARTMENT OF PHARMACOLOGY & TOXICOLOGY

070111

Principles of Anatomy and Physiology I

This course provides students with a broad knowledge of the structure and functions of the human body. Gross anatomy is treated in its broadest aspects. The physiology is integrated with anatomy for

each system of the human body. Topics include the organization, regulation and function of the muscular, gastrointestinal, respiratory, cardiovascular, renal, endocrine, nervous and reproductive systems. Clinical applications related to these systems are mentioned.

070112

Principles of Anatomy and Physiology II

Continuation of Principles of Anatomy and Physiology I (700135)

070113

Biochemistry I

The course covers the study of the structure and function of the biological constituents of living cells and their chemical reactions. Emphasis is on the structure and function of carbohydrates, proteins, nucleic acids, lipids and vitamins. Enzyme kinetics and enzyme-catalyzed reactions are also covered.

070114

Biochemistry II

The study of the metabolism and biochemical energetics is covered in the course with emphasis on intermediary metabolism of proteins, carbohydrates and lipids. The course also includes the biosynthesis of biologically important macromolecules such as proteins, lipids, and nucleic acids. Special topics include hormones, nutrition, starvation, obesity, and molecular basis of human diseases.

070115

Pharmacology

General Pharmacology: Principles of drug action, routes of administration of drugs, passage of drugs across cell membranes and factors modifying the dosage and action of drugs. The autonomic nervous system: Introduction, sympathomimetics, sympathetic depressants, parasympathomimetics, parasympathetic depressants and drugs acting on autonomic ganglia. Skeletal muscle relaxant. Drugs acting on respiratory system. Autacoids and local hormones are covered.

070116

Toxicology

This course covers Drugs acting on CVS, Renal system, Haematopoietic system and Drugs acting on G.I.T.

Drugs acting on the central nervous system and Drugs acting on the endocrine system are covered.

This course covers General microbiology, sterilization of pharmaceuticals, preservatives and preservation of pharmaceutical dosage forms and industrial microbiology.

Immunology mainly immunity and infection, immune system and hypersensitivity.

Hygiene covering pathogenesis of bacterial infections, etiology, clinical picture, lab diagnosis, treatment, prevention and control of diseases caused by the different bacteria.

Virology, general properties of viruses.

Toxicology concerns the adverse and toxic effects of drugs and many other chemicals that may be responsible for household, environmental and industrial intoxications. It provides knowledge of heavy metals toxicity and its management, common poisons and their antidotes, air pollutants, and pesticides. Chemotherapy covers the classification mechanism of action, clinical indications and adverse effects of anti-infective agents.

This course requires the knowledge of collection, classification and summarization of data, graphical presentation, survey of basic distribution, estimations, and the significance tests. The course covers general methods of bioassay and drug screening of local hormones and drugs acting on ANS, CNS, CVS, NMJ, GIT and respiratory system. It also deals with the design and analysis of pharmacological experiments.

The course covers the fundamentals of the basic disease process of the body: Gross, microscopic and biochemical features of pathological conditions of the organ systems are studied in detail in order to establish a sound foundation for clinical practice.

Immunology (Theory and Practical) (Course)

The course provides students with the basic knowledge of the important signs, symptoms, and etiology of diseases along with mechanisms of preventing infections and means of identifying and diagnosing the causative agent.

Genetics (Theory and Practical) (Course)

The course is designed to provide students with a clear understanding of how human genes causing disease can be identified, and the impact of this work on understanding, diagnosis, prevention, and treatment. Methods to isolate genes involved in disease and types of gene therapy treatment will also be discussed. The course teaches the basic science of gene therapy, and current gene therapy protocols in humans. Regulatory issues concerning biomaterials will also be addressed.

Biochemistry (Theory and Practical) (Course)

The course covers the biochemical consequence of major disorders of the heart, lung, liver, kidney, gut, brain, and muscle. Emphasis is given to principles of biochemical screening and monitoring in health and disease. Included in the course are the principles for tests routinely carried out in a clinical biochemistry laboratory, and the biological understanding of test results. Emphasis is given to inborn errors of metabolism and metabolic disorders of the various biological molecules.

DEPARTMENT OF CLINICAL PHARMACY

Community Pharmacy

Education preparation for community pharmacy involves inculcation of concepts of service, of health and illness, and an awareness of patients rights, particularly in the field of self-medication.

Clinical Pharmacy I

Clinical Pharmacy I includes the different symptoms, signs, and investigation of different diseases. Pathophysiology of diseases, inter-professional relations and communication skills, utilization of drug literature and source of drug information and clinical clerkship.

9700000

Clinical Pharmacy II and Test 1/2

Dietary consideration in health related problems. Clinical Pharmacy II includes non-drug therapy, rational drug therapy in the treatment of selected diseases and management in acute care medicine, pharmacotherapeutics, clinical pharmacokinetics, dialysis in chronic renal failure (the role of pharmacist), and clinical clerkships. This course also provides the pharmacist with knowledge of techniques for delivering emergency aid in situations which might arise in professional practice as well as in personal daily life.

0700014

Community Pharmacy Training I

0700015

Community Pharmacy Training II

0700016

Community Pharmacy Training III

Health system studies

0700017

Hospital Pharmacy Training

0700018

Clinical Pharmacy Training

ALL DEPARTMENTS

Pharm.D.

Pharm.D.

Student prepares a faculty-supervised research project with practical implication to pharmacy. The candidate must successfully complete and present the project as part of his/her graduation requirements.

9. FACILITIES

3.1 LABORATORY FACILITIES

The Faculty has several laboratories which are equipped with the most advanced instruments and glassware in the different pharmaceutical science branches. These laboratories enhance the student's practical experience and to integrate the theoretical studies with practical methods and techniques.

3.2 COMPUTER FACILITIES

The Faculty enjoys full technical guidance, support and know how from the University Computer Center. The mission of the Computer

Center is to provide computer support, awareness, and training services to administrators, staff and students. The computer laboratories at the center are well equipped and are available for use throughout the day, and are always monitored by well-trained staff members to assist in solving problems and answering questions.

10.1. THE LIBRARY

The main objectives of the library are to provide books, periodicals and other reference material for study in the library and for loaning the same for a definite period as well as to provide faculty to teach the students how to use the books in getting the required information and encourage them to deepen their knowledge in the different areas of study. The library has books in all disciplines that are taught in the faculty, like pharmacetics, Pharmacology, Chemistry, Biology, Pharmacognosy, etc.

Also some journals, Encyclopedias, Pharmacopoeias are made available.

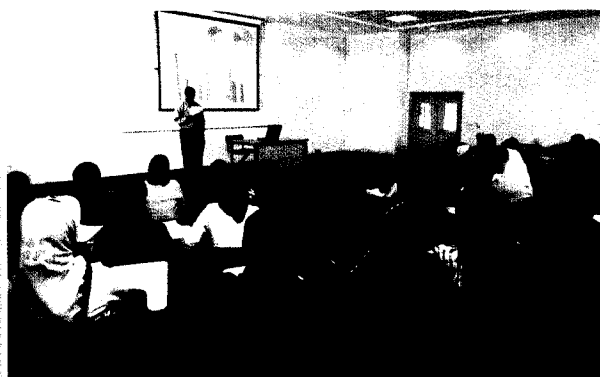
The library is making use of the Internet in getting most of the scientific information needed for the research and for the projects and assignments given to the students.

10.2. THE ELECTRONIC LIBRARY

The Faculty has a wide range of compact disks and floppy disks containing a variety of textbooks, examinations, and exercises in the different subjects of pharmacy and medicine. Interactive multimedia programs and videotapes are also available. These are considered to be an important resource in the process of self-learning applied in the Faculty.

- 1- Sixteen Ph. D. Holders (Professors, Associate Professors, and Assistant Professors)
- 2- Three M. Sc. Holders (Assistant lecturers)
- 3- Six B. Pharm. Holders (Teaching Assistants)
- 4- Five B. Sc. Holders (Lab Technicians)

- 1- Eight Ph. D. Holders (Professors, Associate Professors, and Assistant Professors)
- 2- Four B. Pharm. And B. Sc. Holders (Teaching Assistants)
- 3- Two B. Sc. Holders (Lab Technicians)



FACULTY OF EDUCATION AND BASIC SCIENCES

BACHELOR IN EDUCATION IN TEACHING ENGLISH AS A FOREIGN LANGUAGE (TEFL)

The program aims at:

1. Providing local society and educational institutions with qualified teachers of the English Language.
2. Conducting in-service training programs to train and retrain teachers of English and other school personnel in co-ordination with the Ministry of Education and Youth.
3. Undertaking, in co-ordination with the University Language Center, applied research in the field of foreign language learning and teaching in order to facilitate developing communicative competence and teaching methods.
4. Promoting relations with other English departments and language centers in the UAE and the region to exchange ideas, information, experience and research findings.



Students will be expected to fulfill the following behavioral objectives. That is, students will be able to:

1. Demonstrate an awareness of the appropriate uses and functions of the spoken and written varieties of the target language.
2. Demonstrate an acceptable degree of accuracy in their use (i.e. understanding and response) of the spoken and written varieties of the target language.
3. Express opinions and practices individually and in groups of two or more
4. React to and interact with different situations .
5. Demonstrate knowledge of the various factors that affect learning a second or a foreign language.
6. Develop a positive attitude towards modern theories of second language acquisition and their applicability to learning English as a foreign or a second language.
7. Review and analyze current perspectives, theories, methods and issues in the field of language learning and teaching
8. Demonstrate a high level of understanding in the relationship of Applied Linguistics in TEFL
9. Develop a wide range of learning and teaching strategies
10. Demonstrate a high level of competency in putting their teaching skills and behaviors into practice
11. Demonstrate competency in applying relevant TEFL theories to the teaching practices in the primary classrooms
12. Demonstrate competency in applying relevant TEFL theories to different professional situations and contexts.
13. Identify and address major issues in the development and evaluation of course books, learning activities and drills
14. Identify and address major issues in the use of instructional technology in classroom learning and teaching
15. Demonstrate ability to use various techniques in dealing with classroom problems and the learners' errors
16. Identify and analyze the nature and characteristics of the learner's approximative systems and identify the problems related to translating from Arabic to English and visa versa.
17. Demonstrate awareness and appreciation of current and future needs and abilities of the learners

1

- 1- Secondary school certificate.
- 2- English Placement Test.
- 3- Mathematics Proficiency Test (MPT).
- 4- Personal interview.

COMPLETION REQUIREMENTS

To be awarded the bachelor degree in English Language, the student has to complete and fulfill the following requirements:

1. Completion of 44 courses / 132 credit hours of study including Practical training
2. Achievement of Accumulative Grade Point Average not less than 2 points.

GRADUATION REQUIREMENTS

The total credit hours/courses of the English Language Program is distributed over four major components, areas of strands: University cultural requirements, Faculty educational requirements, E LT requirements and Program/specialized requirements. Each major area consists of two types: compulsory and elective credit hours/courses. Figure 1 shows the allocation of credit hours for each component and each type.

	University	Faculty	ELT	Department	Total
Compulsory hours	21	24	33	36	114
Elective hours	3	3	6	6	18
Total	24	27	39	42	132

1- UNIVERSITY REQUIREMENTS (24 CRIDET HOURS)

Type		Number	Course Title	Cr. hrs	Prerequisite
Compulsory Courses	1	600101	English 1	3	
	2	500110	Islamic Culture	3(3+1)	
	3	500120	Arabic language	3	
	4	310100	Information Technology Fundamentals	3 (2+2)	
	5	130130	Statistics	3(2+2)	
	6	600102	English 2	3	
	7	514330	Research Methodology	3	Complete 60 c. hrs
	8	500130	General Psychology	3	

2. FACULTY REQUIRED COURSES (27 CREDIT HOURS)

Type		Number	Course Title	Cr. Hs	Prerequisite
Compulsory Courses	1	511106	Fund. Of Education	3	
	2	512218	Const. & Dev. Curriculum	3	
	3	513207	General Methods of Teaching	3	Const. & Dev. Curriculum
	4	514209	Developmental Psychology	3	General Psychology
	5	514212	Educational Psychology	3	Developmental Psychology
	6	513326	Educational Evaluation	3	Const. & Dev. Curriculum
	7	514328	Educational Technology	3	Const. & Dev. Curriculum
	8	514140	U A E Society	3	
	9	511442	Children literature (taught in English)	3	English Literature

3. ELT REQUIRED COURSES: (39 CREDIT HOURS.)

Type		Number	Course Title	Cr. hs	Prerequisite
Compulsory Courses	1	560208	2nd Language Acquisition	3	General Psychology
	2	560316	Pedagogical Grammar	3	Grammar of English
	3	512341	Methodology 1	3	Curriculum
	4	513441	Methodology 2	3	Methodology 1
	5	513443	Methodology 3	3	Methodology 1
	6	630401	Contrastive & Error Analysis	3	
	7	561415	Applied Linguistics	3	Intro. To Linguistics
	8	563401	Textbook Analysis	3	Methodology 1
	9	513448	Teaching Practice	9	
Elective Courses (6 Cr. hours)	1	560301	Seminar in ELT	3	
	2	560306	Teaching & Learning Strategies	3	
	3	563402	Supplementary materials	3	
	4	560302	Islamic Heritage	3	

4. DEPARTMENT REQUIRED COURSES (42 CREDIT HOURS)

Type		Number	Course Title	Cr. hrs	Prerequisite
Compulsory Courses	1	600103	Study Skills	3	
	2	600112	Reading Skills	3	
	3	600114	Speaking/Listening Skills	3	
	4	600116	Writing Skills	3	
	5	600211	Advanced Reading Skills	3	Reading Skills
	6	630314	Advanced Speaking Skills	3	Speaking Skills
	7	600230	Advanced Writing Skills	3	Writing Skills
	8	600251	Grammar of English 1	3	
	9	600252	Grammar of English 2	3	Gram. of English 1
	10	600223	Introduction to Linguistics	3	
	11	600224	Phonetics & Phonology	3	
	12	610323	English Literature	3	
Elective Courses (6 C. hours)	1	630309	Short Stories	3	English Literature
	2	630309	Poetry	3	English Literature
	3	600400	Translation	3	
	4	610112	Western Life & Thought	3	

THE STUDY PLAN

Year	Semester 1		Year	Semester 2	
	Course Title	Number		Course Title	Number
1st year	English 1	600101	1st year	English 2	600102
	Islamic Studies	500110		Study Skills	600103
	Arabic Language	500120		Reading Skills	600112
	Statistics	130130		Grammar of English 1	6002521
	Information Technology Fundamentals	310100		General Psychology	500130
	Foundations of Education	511106		Curriculum Development	512218
2nd year	Speaking & Listening Skills	600114	2nd year	Advanced Speaking	630314
	Writing Skills	600116		Advanced Writing	600212
	Introduction to Linguistics	600223		Phonetics & Phonology	600224
	Grammar of English 2	600252		2nd Language Acquisition	560208
	Development Psychology	514209		Educational Psychology	514212
	General Methods of Teaching	513207		Advanced Reading Skills	600211
3rd year	Contrastive & Error Analysis	561416	3rd year	Research methodology	514330
	Methodology 1	512341		Methodology 2	513441
	UAE Society	514140		Pedagogical Grammar	560316
	English Literature	610323		Children Literature	511442
	Technology of Education	514328		Educational Evaluation	513326
	Program Elective	-		Department Elective	-
4th year	Applied Linguistics	561415	4th year	Teaching Practice	513448
	Textbook Analysis	563401			
	Methodology 3	513443			
	Department Elective	-			
	Program Elective	-			

English Language Proficiency Test

English is used as the medium of instruction, except for the courses offered by the department of Educational Sciences. Therefore, all new students are required to sit for a proficiency test in English Language and attend an interview to evaluate their oral proficiency. If they pass the test and the interview, they gain three credit hours. Those who do not pass will be required to register in a remedial English course (six/nine hours per week).

Mathematical Proficiency Test

New students are required to sit for a proficiency test in Mathematics. Those who do not pass will be required to register in a remedial course in mathematics.

The Minimum Score

To be admitted, the applicant student must have:

1. A secondary school certificate issued in the UAE or its equivalent from any other country with an average of at least 60%.
2. A pass mark of 60% or above in English at the secondary school
3. A pass mark of 60% or above in the placement test.

An overall grade of 60 or above in all of these components. Students will be interviewed in order to check if they are physically and professionally fit for the teaching profession.

Acceptance is normally decided on a competitive basis according to the number of places available and the applicant's scores in the secondary school, the applicant's score in the placement test and the interview results.

Documents Needed

To enable the Admission Committee to assess applications, each student is required to submit the following documents:

- a. An application form obtained from the Admission and Registration Deanship and filled by the student.
- b. A secondary school certificate and a grade transcript. Certified copies are equally accepted.
- c. A birth certificate.
- d. A photocopy of the passport.
- e. A health certificate certified by the University doctor.
- f. A certificate of good conduct issued from an official body.
- g. Six photographs (4x6) with full names on the back of each.
- h. A written commitment signed by the student to observe the University rules and regulations.



MISSION

The mission of the Department of Educational Technology is to prepare students to be specialists in the field of educational technology. DET graduates are qualified to assume the responsibility of training designers both in private and government institutions and training agencies. Their education and practical training are designed to enable them to facilitate training and ensure that trainees acquire, develop and upgrade their professional skills to meet any new and / or changing requirements.

DET graduates are also prepared to be qualified designers and developers of technology-based instructional programs and materials in different professional settings such as corporations, universities, community colleges, school districts, libraries, government agencies and other related sites. As instructional designers DET graduates are expected to master the professional competencies and skills to be able to conduct the following:

- Analyze learner needs and learning environments.
- Design and develop effective and efficient technology based learning materials.
- Make decisions concerning the selection of technologies most appropriate to support learning using their knowledge of the strengths and weaknesses, costs, and development time required by various instructional technologies.
- Apply what is known about how people learn to most effectively and efficiently design systems that support learning.
- Assess, evaluate, and improve learner performance, the quality of educational and training designs and technology based learning materials.
- Apply and use analog, computer, and networking technologies to support learning (multimedia, interactive video, and web page design).

The DET program seeks to provide students with knowledge and skills necessary for promoting instruction and training. The new technologies are posing challenges and yet offering opportunities for rethinking education. DET graduates can effectively and efficiently participate as human resources in reshaping public and private schools in order to face the technological and socio-cultural challenges of the 21st century.

It is the philosophy of the DET to continuously involve a high percentage of all stakeholder representatives in evaluating and developing the program mission, goals, learning outcomes, and determining the degrees of importance of the professional competencies

recognized by AECT. Stakeholders are also urged to participate in and provide field experience to ET students through all practicum courses and field training. In addition they are involved in the process of graduate performance assessment where their feedback is used for program development and / or modifications when and if needed.

The DET program gives special attention to practical experience. Integration of theory with practice is of great importance when designing, developing and implementing each course within the DET program. It is an emphasized practice that what knowledge and skills acquired have to be applied in instruction and training contexts. Another observed practice is that comprehensive portfolios of educational technology projects and materials developed by students are shared with schools and business for mutual benefit.

OBJECTIVES

The DET program goals represent current orientations in the literature of educational technology and are used as a filter for the consistency and development of the articulated ET program. They do not prescribe specific content, instructional topics, themes, skills, or processes. These goals are mission specific to the Bachelors Degree in Educational Technology and will be refined based on the findings of Needs Assessment Study and ET Program Evaluation involving all stakeholders including students, staff, and employers in a variety of professional environments.

GOAL 1: DESIGN:

To enable students to design conditions for learning by applying principles of instructional system design, message design, instructional strategies and learner characteristics.

As a result of implementing the educational technology program, the learner will:

- Recognize and apply instructional design principles to create optimal conditions for learning in instructional settings.
- Distinguish among instructional design system models and investigate the learning theories from which they are derived.
- Recognize and apply the principles of educational psychology, communication theory, and visual literacy to the selection of media and to the development of instructional message.
- Identify learner characteristics and evaluate their impacts on the selection and implementation of instructional strategies.
- Explore the factors that influence the selection of instructional strategies and models.
- Demonstrate the appropriate application of models within practice and field training.

GOAL 2: DEVELOPMENT:

To enable students to select and use productivity technologies for the development of instructional and professional production to assess effectiveness of the products, and to revise and update them using the results of the evaluation.

As a result of implementing the educational technology program, the learner will:

- Engage in personal and group decision-making about the selection of appropriate productivity technologies for the development of instructional and professional products.
- Identify and apply the instructional design principles and the appropriate learning and Psychological theories for the development of instructional and professional product
- Use appropriate analog and digital productivity tools to produce instructional and professional products for conventional and distance learning environment.
- Recognize and evaluate the effectiveness of instructional and professional products applying appropriate evaluation strategies and techniques.
- Use the results of evaluation to revise and update instructional and professional products.

GOAL 3: UTILIZATION:

To enable students to apply principles, strategies, and model of media utilization, diffusion, implementation, and policy-making for using technologies, processes and resources in learning and training contexts.

As a result of implementing the educational technology program, the learner will:

- Make and act upon instructional design-based decisions to select and use appropriate technologies and resources for learning and training contexts.
- Distinguish among and apply strategies for the diffusion, adaptation, and dissemination of innovations in learning communities.
- Use techniques and strategies to facilitate appropriate use of innovations in selected organizations and to integrate these innovations within the structure and behavior of the organizations.
- Recognize technology policies and regulations adopted by society and evaluate their impact on utilization, applications and integration of instructional technologies.

GOAL 4: MANAGEMENT:

To enable students to use principles and techniques of management to plan, organize, coordinate and supervise instructional technology including instructional design projects, resource support systems and services, delivery systems and information sources.

As a result of implementing the educational technology program, the learner will:

- Recognize the elements and techniques of project management and apply them in various learning and training contexts.
- Recognize the elements and techniques of resource support systems and services and apply them in various learning and training contexts.
- Recognize the elements and techniques of delivery system management and apply them in various learning and training contexts.
- Recognize the elements and techniques of information management and apply them in various learning and training contexts.

GOAL 5: EVALUATION:

To enable students to apply problem solving skills in the educational technology context, to evaluate the effectiveness of instructional product and systems as well as to evaluate educational technology projects.

As a result of implementing the educational technology program, the learner will:

- Construct criterion-referenced measures for the assessment of educational and instructional technology projects.
- Construct formative and summative evaluation systems for the evaluation of the efficiency and effectiveness of educational technology programs and projects.
- Engage in personal or group decision-making about the adequacy of the modification and /or utilization of educational and instructional technology projects and programs using formative and summative evaluation strategies and analyses.
- Identify and apply problem-solving skills in appropriate instructional technology

ADMISSION REQUIREMENTS:

The Council of Academic and Scientific Affairs determine the number of students who may be admitted to each faculty in each semester according to the University's available resources. All correspondence should be addressed to the Admission and Registration Deanship. Students will be in close contact with Deanship throughout their course of study in the University. The Deanship liaises between the various faculties and the students in all matters concerning their program of study. Students are admitted at the beginning of each semester according to the following conditions.

Admission to the First Year

1. To be admitted the student must have a science section secondary school certificate issued in the U.A.E. or its equivalent with a minimum grade point average not less than 60%.
2. English is the medium of instruction. Therefore, all new students are required to sit for an English language exam. Only those who pass will then be allowed to register.

Acceptance is normally decided on a competitive basis and according to the number of places set by the faculty and the department.

Required Documents

1. An application form obtained from the Admission and Registration Deanship and filled in by the applicant.
2. A Science Section Secondary School Certificate (or its equivalent) and a grade transcript. Certified copies are equally accepted.
3. A birth certificate.
4. A photocopy of passport.
5. Health certificate certified by the University doctor.
6. Certificate of good conduct issued from an official body.
7. Six (6) photographs (passport size) with full name on the back of each.
8. A written commitment signed by the applicant to observe the University rules and regulations.

First Year

First Semester	Course #	Course Title	Cr.h.	Con.h.	Prereq.
	111000	Academic Advising	0	3	-
	500120	Arabic Language	3	3	-
	310100	Information Technology Fundamentals	3	2-2	-
	500130	General Psychology	3	3	-
	600101	English I	3	3	-
	580111	Instructional print and Audio Media	3	1-4	-
	580112	Modern Educational Technology	3	3	-
Second Semester	111000	Academic Advising	0	3	-
	130130	Statistics	3	2+2	-
	600102	English for special purpose (ESP)	3	3	600101
	514209	Development Psychology	3	3	500130
	580121	Introduction to Instructional Sys. Anlyisi & Design	3	3	-
	570122	Introduction to Distance Education	3	3	-
	580123	Instructional Visual Media	3	1-4	580111

Second Year

First Semester	500110	Islamic studies	3	3	-
	514212	Educational Psychology	3	3	514209
	512218	Curriculum Construction & Development	3	3	-
	580211	Instructional System Analysis & Design	3	3	580121
	580212	Introduction to Interactieve Multimedia Development	3	1-4	580123
Second Semester	513326	Education Eevaluation	3	3	512218
	580221	Multimedia for learning	3	2-2	580212
	580222	Training Strategies	3	3	580213
	580223	Individualized learning models	3	3	-
	580224	Networks & Communication Sys. in Distnace Learning	3	2-2	580122

Third Year

First Semester	Course #	Course Title	Cr.h.	Con.h.	Prereq.
	580213	Educational Technology & Training	3	3	-
	514330	Research Methodology	3	3	514212 + 512218
	580311	Learning Resource Center Dev. & Edu.	3	2-2	-
	580312	Evaluation in Educational Technology	3	3	580211
	580313	Design & Dev. of Individualized Learning System	3	2-2	580223
	580314	Selection & Evaluation of Computer-Based Inst. software	3	3	580212
	580315	Web Page Design	3	2-2	580224
Second Semester	580225	Application of Psychology in Instruction & Training	3	3	514212
	513207	General Methods of Teaching	3	3	512218
	580321	Instructional Design Project	3	3	580312
	580322	Learning Resource Center Administration	3	3	580311
	580323	Computer-Based Collaborative Instruction	3	2-2	580222+580312+580224
	580325	Web-Based Instruction	3	2-2	580315
	-	Department Electives	3	3 or 4	All required domain courses

Fourth Year

First Semester	-	Faculty Elective	3	3	-
	511106	Foundation of Education	3	3	-
	580411	Issues & Innovations in Education Technology	3	3	-
	580412	Integration of Technology into Instruction & Training	3	3	580222+580312
	-	Department Electives	3	3 or 4	All required domain courses
Second Semester	514140	Emirate Society	3	3	-
	580421	Practicum	3	3	580411
	580422	Graduation Project	3	3	-

ELECTIVE COURSES

Domain	Course #	Elective Courses	Cr. h.	Cont. h.	Required Domain	Prereq.
Instructional Media Development	580510	Instructional Graphic Design	3	2-2	Instr. Print and Audio Media	580111
	580511	Instructional Videography	3	2-2	Instructional Visual Media	580123
	580512	Animation in Multimedia	3	2-2	Interactive Multimedia Dev. Selection & Evaluation of Computer-Based Instr Software	580212 580314
Teaching and Learning with Computer Based	580520	Database Application for Educational Management	3	2-2	Multimedia for Learning	580221
	580521	Simulation and Games	3	2-2	Computer-Based Collaborative Instruction	580323
	580522	Computer Based Training	3	2-2	Web-Based Instruction	580325
Distance Education	580530	Instructional Web Authoring Systems	3	2-2	Introduction to Distance Edu. Networks and communication Systems In Distance Learning	580122 580224
	580531	Web Programming Languages	3	2-2	Web Page Design	580315
	580532	Information Management and Distance Learning Technologies	3	3		
Training and Educational Technology	580540	Educational Technology and Human Resource Development	3	3	Edu. Technology & Training Training Strategies	580213 580222
	580541	Design and Management of Training Projects	3	3		
	580522	Computer-Based Training	3	2-2		

FACULTY OF EDUCATION AND BASIC SCIENCES **PROGRAM OF BACHELOR IN EDUCATIONAL TECHNOLOGY**

UNIVERSITY REQUIRED COURSES (15 CREDIT HOURS)

	Course Title	Course #	Cr. h.	Con. h.	Prereq.
1	Statistics	130130	3	3	-
2	Introduction to Computer Science	311101	3	2-2	-
3	Islamic Studies	500110	3	3	-
4	Arabic Language	500120	3	3	-
5	English I	600101	3	3	-

UNIVERSITY ELECTIVE COURSES (9 CREDIT HOURS)

	Course Title	Course #	Cr. h.	Con. h.	Prereq.
1	General Psychology	500130	3	3	-
2	Research Methodology	514330	3	3	512218+514212
3	English for Special Purpose ESP.	600102	3	3	600101
4	Environment, Water & Energy	700100	3	3	-

FACULTY REQUIRED COURSES (21 CREDIT HOURS)

	Course Title	Course #	Cr. h.	Con. h.	Prereq.
1	Foundation of Education	511106	3	3	-
2	Curriculum Construction & Development	512218	3	3	-
3	General Methods of Teaching	513207	3	3	-
4	Educational Evaluation	513326	3	3	-
5	Emirate Society	514140	3	3	-
6	Development Psychology	514209	3	3	-
7	Educational Psychology	514212	3	3	-

FACULTY ELECTIVE COURSES (3 CREDIT HOURS)

	Course Title	Course #	Cr. h.	Con. h.	Prereq.
1	Teaching and Teachers Role	511338	3	3	-
2	Children Literature	511442	3	3	-
3	Education and Society Problems	514339	3	3	-

DEPARTMENT REQUIRED COURSES (78 CREDIT HOURS)

	Course Title	Course #	Cr. h.	Con. h.	Prereq.
1	Instructional Print and Audio Media	580111	3	1-4	-
2	Modern Educational Technology	580112	3	3	-
3	Introduction to Instructional System Analysis & Design	580121	3	3	-
4	Introduction to Distance Education	580122	3	3	-
5	Instructional Visual Media	580123	3	1-4	580111
6	Instructional System Analysis And Design	580211	3	3	580121
7	Interactive Multimedia Development	580212	3	1-4	580123
8	Educational Technology and Training	580213	3	3	-
9	Multimedia for Learning	580221	3	2-2	580212
10	Training Strategies	580222	3	3	580213
11	Individualized learning Models	580223	3	3	-
12	Networks and Communication Systems in Distance Learning	580224	3	2-2	580122
13	Application Of Psychology In Instruction And Training	580225	3	3	514212
14	Learning Resource Center Development and Evaluation	580311	3	2-2	-
15	Evaluation in Educational Technology	580312	3	3	580211
16	Design and Development of Individualized learning Systems	580313	3	2-2	580223
17	Selection and Evaluation of Computer-Based Instruction Software	580314	3	3	580212
18	Web Page Design	580315	3	2-2	580224
19	Instructional Design Project	580321	3	3	580312
20	Learning Resource Center Administration	580322	3	3	580311
21	Computer-Based Collaborative Instruction	580323	3	2-2	580212+580312+580224
22	Integration of Technology into Instruction and Training	580412	3	3	580222+580312
23	Web-based Instruction	580325	3	2-2	580315
24	Issues and Innovations in Educational Technology	580411	3	3	-
25	Practicum	580421	3	3	-
26	Graduation Project	580422	3	3	-

DEPARTMENT ELECTIVE COURSES (6 CREDIT HOURS)

A: Instructional Media Development Domain

	Course Title	Course #	Cr. h.	Con. h.	Prereq.
1	Instructional Graphic Design	580510	3	2-2	580111
2	Instructional Videography	580511	3	2-2	580123
3	Animation in Multimedia	580512	3	2-2	580212

B: Teaching and Learning with Computer Based Technologies Domain

	Course Title	Course #	Cr. h.	Con. h.	Prereq.
1	Database Application for Educational Management	580520	3	2-2	580221
2	Simulation and Games	580521	3	2-2	580323
3	Computer Based Training	580522	3	2-2	580325

C: Distance Learning Domain

	Course Title	Course #	Cr. h.	Con. h.	Prereq.
1	Instructional Web Authoring Systems	580530	3	3	580122
2	Web Programming Languages	580531	3	2-2	580224
3	Information Management and Distance Learning Technologies	580532	3	3	580315

D: Training and Educational Technology Domain

	Course Title	Course #	Cr. h.	Con. h.	Prereq.
1	Educational Technology and Human Resource Development	580540	3	3	580213
2	Design and Management of Training Projects	580541	3	3	580222
3	Computer-Based Training	580542	3	2-2	

1 University Requirements

The course aims to define the Islamic identity of a Moslem student and the main characteristics of this identity so as to be able to build up his/her own Islamic and independent personality. The course intends to acquaint students with the dangers that threaten the Islamic identity and with problems and constraints that the Islamic society encounters.

This course aims to provide students with the necessary knowledge of Arabic. It also motivates them to appreciate the different styles of Arabic. They acquire grammatical skills and learn the rhetorical expressions of the language. The focus is on developing the student's oral and written skills.
(For non Arabic Speakers)

This course is aimed at training students in the skills of listening, speaking, reading and writing. The course aims to take students up to a point where they can begin to use Arabic for every day purposes.

The Course aims to provide a general description of the way a computer system works and also demonstrates how the computer can be used as an effective tool in every day use. The course also aims at familiarizing students with aspects of information technology and its applications in wide variety of fields. The course gives descriptions regarding computer hardware, software, application packages, networks, graphic design, multimedia, internet access, information retrieval, and issues concerning computer ethics and society.

The course aims at providing students with the basic concepts underlying descriptive and analytical statistics so as to understand and analyze numeric information by using the appropriate statistical methods and techniques.

It is a course in English as a foreign language at the intermediate level. It provides practices in the language skills of listening, speaking, reading and writing, and a review of structures. There is a functional and notional element in the course. The language laboratory is used for listening and speaking practices.

This course provides the students with basic principles of psychology and human behavior. It includes: history of this science and the most important schools in psychology. The course covers topics on the psychology of learning, the basis of intelligence and creativity. It aims to address the importance of psychology on human mind in all aspects of life.

The students are expected to be familiar with : The concepts, aims and characteristics of scientific and educational research, the steps of research proposal, the types and techniques of educational research , and to understand different tools for data collection, their features, design and uses , identify different designs of scientific research and prepare a research proposal.

This course introduces students to the basic elements of environment, atmosphere, hydrosphere and lithosphere, their interaction and impact of human activities. Topics such as Air quality, water resources, fossil and renewable energy, environmental pollution and environmental protection are highlighted. Special emphases are given to the United Arab Emirates and Arabian Gulf Region.

This is a course in English for specific purposes at the intermediate level in the student's major subjects. It provides practice in the language skills while emphasizing the structures, vocabulary and registers appropriate to the students' fields.

2 Faculty Required Courses

In this course the students will be studying the different stages of development of the human being: the cognitive, physical, psychological, social, moral and religious. The stages of infancy, childhood, adulthood and adolescence will be studied in detail.

In this course the students will be acquiring the basic concepts and principles that will help in evaluating behavior and performance. Students are expected to apply topics such as learning motivation, problem solving and creativity in situations similar to those in the classroom.

In this course the students will be studying

the philosophical, social and cultural foundations of education. They will also study topics dealing with the relationships between education and Islamic thought by thinking of the human being, his social, physical and ethical environment.

In this course the students will acquire the basic knowledge about the meaning of curriculum, the development of this concept, its components and different kinds of curriculum such as the modern curriculum, the activity curriculum and the eclectic curriculum.

2

In this course the students will be able to acquire the different methods of teaching. They will also learn to teach different lessons in the class using different methods of teaching. Besides, this course will emphasize the students' ability to use the appropriate method for each educational situation.

In this course the students will learn the following topics: the meaning and tools of evaluation, the relationship between evaluation and the different components of the curriculum, the use of different kinds of questions and tools of evaluation.

In this course the student will be taught topics dealing with meaning and functions of technology of education, using different media in different classroom situations and producing educational media such as slides, transparencies and films.

In this course the students will be provided with basic knowledge related to the nature of the UAE society and their effect on the political, geographical, cultural and social aspects.

This course introduces students to the basic themes, concerns and values associated with children's literature. It also emphasizes western culture and ideas as they are revealed in the folktales, poems, nursery rhymes, and myths.

3 E L T Required Courses

The course reviews the different theories of second language acquisition and their application to classroom practices. It then examines some of the major factors that influence the acquisition of English as a second language are examined as well as current research in applied linguistics and different approaches to language teaching. It further examines the strategies employed by the second language learner in the process of learning. Learners' errors, which constitute an inevitable part of the learning process, will also be discussed with the purpose of establishing positive attitudes towards errors in order to deal with them.

The course intends to help the students be familiar with the major improvements in the study of language, to identify how these movements have influenced the teaching of grammar, and to develop their understanding

of grammar and how it works. TEFL teachers need to have adequate knowledge of grammar and the appropriate strategies for teaching it effectively.

The primary objective of this course is to provide the students with a general background about the underlying principles of the major theories including behavioral and cognitive psychology and to show their influence on teaching and learning foreign languages. At the same time, the course will provide the students with a historical and theoretical background on the major approaches and methods and their application on language teaching and classroom practices. A focus will be oriented to the communicative approach. The students will be exposed to the practical application of these methods through teaching clips and microteaching. Towards the end of the course, the students will be introduced to the principles of lesson planning and the techniques of classroom management.

This course is a continuation of Methodology I. It revisits lesson planning with an emphasis on the nature of presentation, practice, and interactive activities. The primary objective of this course is to focus on both the theoretical and practical aspects of teaching the language skills. In addition, the course will focus on classroom-related issues such as the use of blackboard, teaching large classes, etc.

The primary objective of this course is to give the students instructions in teaching language and literacy skills to both primary and preparatory school students. Thus the

course will give the students explicit instruction in basic reading and writing skills. The candidate will be exposed to appropriate theoretical and pedagogical information and resources that will help them throughout their teaching career.

This course is mainly an introductory study of the application of linguistics theory to the fields of language acquisition/learning and teaching, group and intercultural communication, translation & lexicography. It aims at providing students with insights into areas of linguistic concern which are currently attracting wide spread interests in the fields of language, learning/teaching and education.

This course aims to give the students the opportunity to analyze the textbooks used at the primary and preparatory level of education in order to discover their strength, pitfalls, relevance, appropriateness, degree of complexity etc. Moreover, students will also find out how integrated the language skills are and evaluate the quality and quantity of activities designed to develop communicative competence in their learners. These processes will enable students to implement these books effectively, efficiently and flexibly.

This course aims to sensitize students to the differences between the English and Arabic languages. The focus of the course is on sound systems, word formation, spelling, parts of speech, sentence types, punctuation of both English and Arabic. The course also aims at making students aware of the differences between English and Arabic structures,

so that they can implement what they have learnt into their translations from Arabic into English and vice versa.

In this course the students will observe in-service teachers in order to be able to teach. Also, students will teach actual classes and evaluate each other after observation in the classroom. The students are trained to be able to teach in the elementary and preparatory schools.

b. Elective Courses :

This course guides students to issues related to English Language and language teaching: similarities and differences between language acquisition and language learning. Moreover, this course provides students with insights into the acquisition of the first and second language, the major factors affecting the acquisition of English as a foreign or a second language, the specifications of objectives and learning activities and modeling.

This course aims at giving the students the opportunity to learn, using different cognitive and meta cognitive learning and teaching strategies. Moreover, students will evaluate their thinking about protocols, applications and implications of strategy.

Since any curriculum provides the framework or skeleton only, it becomes imperative to sensitize students to become creative, constructive and designers of appropriate and relevant learning experiences. This course then aims to enable students to sup-

plement and enrich the learning experiences in the textbooks. These supportive experiences may be carried home to increase learners exposure to the language. They may also comprise extra curricula.

The course intends to introduce the basis of Islamic civilization as an international civilization, and the birth of science and scientific schools in the Islamic world. It presents the significant achievements made by the Moslem scientists in the different aspects of science and humanities.

4 Program Required Courses

a. Compulsory Courses :

This course aims at equipping students with the necessary skills needed for university education. It is tailored to guide students and make their university education as comfortable and as easy as possible.

The course starts with a brief description of what reading is, the characteristics of the reading process and what a good reader does. Then students are exposed to different topics in order to give them maximum time to develop reading through reading. Gradually they acquire reading speed and the different types of reading skills and strategies. As reading is a cognitive process, students are given the chance to develop critical thinking and relate what they read to themselves and their environment.

This course will develop the ability to hold

conversations, the range of listening strategies, an appreciation of appropriate functional strategies, and the ability to give a talk or a presentation.

Students practice English sentence forms. The logical progression begins with a brief study of the simple sentence and sentence fragment. Then students move onto the compound verb and compound sentence. Finally, they write complex sentences with ideas subordinated by adverb, noun and adjective clauses. The technique of sentence combining is also examined.

4

This course builds on the skills acquired in the first reading course so as to extend the student's range of strategies and ability to deal with a variety of text types, including complete literary works. Techniques for fast reading are presented and practiced.

This course is a logical development of Writing Skills. Few model essays are to be examined. After class discussion of the situation, the data and the language, the students should be able to produce different types of written genres.

This course is the first of two courses, and between them they will provide a comprehensive survey of English grammar and provide the descriptive and analytic background necessary for the use of standard reference grammars.

This is the second course that is meant to provide a comprehensive survey of English traditional grammar and provide the descriptive and analytical background necessary for the use of standard reference grammars.

This first course is an introduction to the scientific study of language and the central concerns of modern linguistics: phonetics, phonology, grammar and semantics, and includes practical analysis and problem solving. It introduces students to the field of linguistics and provides them with a basic foundation in concepts and terminology. It also provides them with the basic information about the analysis and description of language and makes students aware of the nature of human language and its relation to society, psychology, etc.

A study of received pronunciation of standard British English in the context of a general theory of speech sounds and their use, and an explanation of the nature of phonetics and phonology. The course has a strong practical bias, and the student will learn phonemic transcription. The course aims at improving students' understanding of the sound system of English, and hence enhancing their speaking and listening skills.

This is an introductory course in English Literature. It gives the students insights into the nature of literary discourse in the wider context of the social, literary and cultural concerns which have shaped them, and introduces them to the three major genres: poetry, prose, and drama.

Like its prerequisite, this course attempts to provide the students with some advanced listening and speaking skills that enable them to teach their future pupils how to communicate in English in varied communicative settings. Unlike the previous course, this course focuses more on more advanced skills such as getting main ideas, understanding details, note-taking, intonation and recognizing contrast. A major component of this course will be the students' presentation. These will be on topics relevant to the students' cultural and social environment. In this way, the course attempts to help the students teach their future pupils how to engage in oral communications in different settings.

b. Elective Courses :

This course aims to introduce the students to English poetry and to enable them to analyze verse in terms of feet, Meter, rhythm & rhyme. It also seeks to familiarize the students with figures of speech that are invariably used in poetry, eg: alliteration, assonance, simile, metaphor, allusion, hyperbole - etc.

This course aims to:

- 1) Acquainting students with the British and American Short Story
- 2) Emphasizing the idea of speed reading and reading for pleasure
- 3) Familiarizing students with the distinct quality of short story as a literary genre.

This course familiarizes students with the methods of translation and different charac-

teristics of linguistics features in English and Arabic and the related problems. Also, it aims at providing students with the basic skills of translation when to use it in language teaching situations.

This course introduces students to aspects of Western Life and thought which are pertinent to language learning. It also aims to sensitize students to aspects of Western culture such as daily life routine, ways of thinking, socializing and taboo items.

4 Educational Technology

Department / Course Descriptions :

On- site experience relates closely theory and practice, under supervision of qualified person (s). Students under the supervision of a practicum supervisor and a faculty coordinator are responsible for planning and carrying out a RPlan of WorkSc. Students maintain and submit logs, journals, and other documentations of the experience.

The course is intended as a vehicle by which the students can show the competencies of the ET major that has been mastered. This involves the completion of a significant project in which educational technology concepts and techniques are used. Students should try to clearly show that they have used what was learned in their area of concentration.

This course serves to introduce and provide experience in the concepts and processes of instructional systems analysis and design. The major components of instructional design models, along with their respective functions will be presented. This is an introductory course, which provides both introductory information and application of skills and techniques necessary in the analysis, design, development, and evaluation of effective instructional products. These skills and techniques are particularly pertinent to efficient and cost effective development of Practicum solutions to novel instructional problems.

The purpose of this course is to investigate principles for distance education, strategies for delivering content online, and tools for delivery. This course deals with an exploration of the central issues involved in distance education, from print-based correspondence courses to more contemporary, digital approaches. Primary focus will be on the use of Internet e-mail, authoring instruction for the World Wide Web, electronic bulletin boards and conferencing systems, and video teleconferencing.

Students will be actively involved in learning and designing dynamic multimedia products using presentation programs. The course will encourage hands-on participation and group learning as the students research the internet and peripherals such as CD-ROM, camcorder, scanner and digital photography.

This course provide experience in the concepts of process training & analysis of various aspects of training system.. Along teaching of this course, students will have opportunity to experience the major components of the training systems and models. This introductory course provides both introductory information & application of skills & techniques necessary in analysis, design, development, and evaluation of effective training procedure.

This course is designed to provide students

with knowledge and skills necessary to the development and evaluation processes of learning resource centers. Students will be introduced to the concept of learning resource center, its philosophy, objectives, levels, planning, development and evaluation. Students will be required to set up a plan for instituting a learning resource center at a specified level. The course also provides information and guidelines regarding cyber library and its services. It explores the most essential components of a cyber library. Moreover, it discusses the techniques and methods implemented by cyber libraries to employ their own links, and how to acquire a remote access to online databases.

This course explores current trends, issues, and assessment/evaluation methods in modern educational technology. Emphasis will be placed on applying the processes of student assessment and program evaluation to determine the outcomes of educational technology application. In addition to assessing the relevance of a broad selection of evaluation criteria and addressing how evaluation might be applied to determine: formative, summative and C.R.M. (Criterion-Referenced Measurement) outcomes of student learning through technology use.

This course is an introduction to the principles of Web-Based Instruction (WBI) and its role in creating learning environments that utilize the attributes and powerful resources of the Internet. Emphasis will be placed on pedagogical, technological, organizational, institutional, and ethical issues related to the design, development, and delivery of WBI. Online course will be constructed as a project in this course for the purpose of providing a developmentally appropriate academic experience integrated with current learning theories and better practices in education.

This entry-level course will introduce students to the design and development of effective print and presentation instructional materials. Students will develop advanced skills in the use of word processing, desktop publishing, and electronic presentation application software.

This introductory course surveys the field of educational technology through the historical development of computer technology, an overview of modern classroom applications, and an examination of trends and issues surrounding the use of computer technology for teaching and learning.

Students will acquire and create digital still and motion visuals that meet instructional needs. They will learn about visual literacy and fair use guidelines and develop skills with hardware, software, and design techniques for creating visuals.

This course builds upon concepts gained in the Educational Technology and Training course and focuses on determining training strategies that: (1) align with an organization's business needs and (2) are based on the characteristics and effective utilization of various training methods.

This course will introduce organizational factors that affect training and development

systems, ways to identify training needs in an organization, strategies for maximizing trainee's learning, methods of measuring training effectiveness, strategies for developing and training leaders, and management and executive development approaches.

This course will examine the theories of learning and the practical application of these theories for instruction and training. Drawing upon the main themes of these theories, the role of media and technology in teaching and learning, and the planning, design, and delivery of technology-based instruction will be explored.

This course will explore techniques for selecting and evaluating educational software products and Internet-based resources in terms of quality, effectiveness, educational benefits, instructional uses(s), and ease of implementation. In addition to conducting evaluations of educational software and Internet-based resources, students will evaluate hardware system requirements and install/download applications for use.

In this course students explore technology integration in instruction and training in a specific discipline, apply the NTEQ model for integrating technology in instruction, and evaluate the application of the model. They also develop expertise with tools and techniques for learner-centered and teacher-directed technology integration.

In this course students explore the history, purpose, and learning theory basis of individualized learning. They compare and contrast expository and inquiry approaches; evaluate instruction based on both approaches; consider design and development issues; and explore current issues and emerging trends in individualized learning.

Building on the Individualized Learning Models (58022) course, students in this course conduct preliminary planning for computer-based self-instruction in both expository and inquiry formats. They then form groups, choose one project, and finalize planning, develop, test, and revise the project.

In this course students consider purposes for using animation in instructional multimedia, explore various ways of creating animation, and develop expertise with software packages for creating digital animation through a series of hands-on projects.

In this course students participate in the pre-production, production, and post-production phases of the digital video production process to develop technically and aesthetically sound video programs that meet instructional needs.

This course will focus on computer graphics

production used in the development of instructional materials by examining of the principles of graphic design, typography, and production techniques as they apply to electronic delivery systems. Students will develop an awareness of the visual aspects of communicating information and exercise that awareness through practice using design tools, primarily Adobe Photoshop.

In this course students will critically evaluate Web sites, develop expertise in Web site design, and develop skill in Web site development using HTML and Web authoring software. They will design, develop, and publish a simple personal Web site and a more complex informational or instructional Web site.

In this course students will explore, compare, and contrast client-side and server-side Web programming languages. They will develop intermediate level skills with coding and troubleshooting a client-side scripting language. They will design and develop an instructional application that incorporates a client-side scripting language.

During this course, students will complete the design of an instructional program for an existing instructional problem. Students will identify an instructional problem, conduct a needs analysis, and design the instructional plan to include evaluation measures, as a solution to the problem.

Students will explore the unique responsibilities of project management for an instruc-

tional design project, which includes project planning, timeline and budget development, selecting team members, tracking project progress, managing simple and complex projects, and using a project management productivity tool.

Students will design and develop computer-based training; following an instructional design process can be used for all media (computer-based training, Web-based training, Distance Education). Students will examine major types of media that are popular for delivery systems today, the benefits and drawbacks of each, and walk through the processes of needs assessment, instructional design, development and implementation, and evaluation.

This course will explore methodologies in comparing and selecting authoring systems for distance education. The course will focus on effective instructional strategies in distance education and both asynchronous and synchronous deliveries will be explored.

This course will explore the component processes and strategies that comprise distance education, to include teaching and learning, communication, management of information, course design, program planning and delivery. Students will explore administrative, instructional, and technical issues associated with integrated delivery systems

In the course students will consider issues

related to the design of simulations and games, evaluate commercially produced simulations and games, explore a variety of software for development of simulations and games, and develop expertise with specific software packages. They will design and develop technically simple, instructionally sound simulations and games.

In this course, students will explore the uses of databases for the management of educational information. They will gain skills in the development of computer-based databases and will design, develop, and plan for the implementation of an educational database.

8

In this course, students will develop an understanding of the concept of collaborative learning (collaborative instruction) and how collaborative learning activities are implemented. They will evaluate both asynchronous and synchronous communication tools for collaborative learning and plan, facilitate, and evaluate computer-based collaborative learning activities.

This course represents a mix of theory and practice development. Students will examine components of a predominant ISD model and implement this model in the development of self-based instructional units. To accomplish this goal student will participate in the instructional design process: Identifying the need for instruction examining learner characteristics, conducting task analysis, writing instructional objectives, determining the instructional sequence and objectives, selecting instructional messages, and conducting formative evaluation.

This course covers the following concepts: Media quarters, facilities, collections, equipment, and services. The course also discusses principles of organization and administration of learning resource centers and media centers and programs. Students are expected to familiarize themselves with learning and media centers in the field.

This course focuses on the design and evaluation of multimedia in learning and teaching environments, aspects related to human learning, and how to design interactive multimedia technology to support learning and knowledge construction. It examines different types of interactive multimedia learning environments, strategic approaches to education multimedia design, and presentation design. The course involves a practical component in which students get to design a scaled-down educational multimedia environment.

This course presents the design of a distance-learning networking and data communications via a combination of live TV lectures, web labs, web lectures posted on the web, and e-mail. All course materials including lectures and labs are described. A web-based information delivery system that is used for the course is also described.

This course deals with issues, trends, innovations, and problems in instructional technology. The course also discusses the impact of existing and emerging technology on the educational system. Advanced topics in theory, selection, production, and utilization of technology-based instruction will be covered.



الرتبة العلمية	العدد
أستاذ	١٩
أستاذ مشارك	٤٥
أستاذ مساعد	٨١
محاضر	٣٧
المجموع	١٨٢

- الدوال المحددة التغير - الاشتقاق - نظرية داريوكس ونظرية رول وتفسيرها الهندسي والجبري ونظرية كوشي للقيمة المتوسطة .
- الاتصال المنتظم - نظرية النقطة الثابتة .
- متتالية ومتسلسلة الدوال والتقارب المنتظم .
- اختبارات التقارب المنتظم - بعض الدوال الخاصة .

- إيجاد حلول المعادلات غير الخطية في متغير واحد بطرائق التحليل العددي المختلفة: طريقة التصنيف، طريقة النقطة الثابتة، طريقة نيوتن، رافسن وتحليل الخطأ عند استخدام طرق التحليل العددي .
- الاستكمال: كثيرة حدود تيلور، الاستكمال وعلاقته بكثيرة حدود لا جرانج، الاستكمال المتكرر، استكمال هرميت .
- التفاضل العددي والتكامل العددي وحلول المشكلات الابتدائية للمعادلات الخطية العادية .

- الهندسة الاقليدية: تاريخها - طريقة الفروض - فروض اقليدس الاربعة .
- الهندسة اللاقليدية: فروض هيلبرت - الفرض الزاندي، القاطع العمودي لعدة متوازيات، الاشعة المتوازية .
- هندسة المسلمات وهندسة التحويلات والهندسة الافينية .
- مقدمة في التبولوجي .

- نظم الأعداد الحقيقية، نوبولوجي الأعداد الحقيقية - الفئات المفتوحة والمقفولة .
- المتتاليات: تعريفها ودراسة تقاربها وتباعدها .
- المتسلسلات العددية: تعريفها - حالات خاصة من المتسلسلات العددية واستخدام اختبارات التقارب والتباعد .
- متسلسلات القوى: تعريفها - خواصها - تقاربها ونصف قطر التقارب وفترات التقارب .

- الأعداد العقدية: تعريفها وخواصها .
- الدوال العقدية: تعريفها وخواصها ودراسة نهاية دالة عقدية واتصالها وكذلك مشتقتها وخاصة بعض الدوال الأساسية .
- التكامل العقدي .
- المتسلسلات العقدية: سلسلة لورانت وصلتها بنظرية الرواسب .

ب - المساقات الاختيارية

- الخواص الأساسية للأعداد الصحيحة والقسمية الخوارزمية والقسمية الاقليدية، القاسم المشترك الأعلى وخواصه، المضاعف المشترك الأدنى وخواصه .
- الأعداد الأولية: تعريفها وخواصها والمعادلة الديوفانتية لخط الأعداد الأولية .
- النظرية الأساسية في الحساب - نظرية اراتوستينز .
- أعداد فيرما وخواصها والتوافق الخطي ودالة اولر .

الزمر: نصف الزمرة، تعريفها وخواصها، الزمر المحدودة، الزمر الابدالية، الزمر الجزئية، المولدات، الدوال والتبديلات، الزمر الدائرية، تصنيف الزمر الدائرية، تشاكل الزمر، تناظرها، الضرب المباشر لها. الحلقات: تعريفها وخواصها، تشاكل الحلقات، نظرية التشاكل الأولى في الحلقات.

- المعادلات التفاضلية العادية من الرتبة الأولى: تكوينها - تصنيفها - حلها .
- تطبيقات: إيجاد المسارات المتعامدة .
- المعادلات ذات الرتبة الثانية: الخطية المتجانسة ذات المعاملات الثابتة .
- مسائل القيم الابتدائية والحدية - معادلات اويلر وكوشي .
- المعادلات الخطية غير المتجانسة .
- نظم المعادلات الخطية وطرائق إيجاد حلولها .
- طريقة سلاسل القوى لحل المعادلات التفاضلية الخطية ثم الحل بواسطة تحويل لابلاس .

- جبر المتجهات وتطبيقاته
- الدوال المتجهة ذات المتغير الواحد: تعريفها - خواصها - مشتقتها وتطبيقات على استخدام مشتقة دالة متجهة في حساب السرعة والعجلة والمماسات والانحناء - التشتت - مؤثر لابلاس .
- التكامل الخطي والتكامل السطحي .
- نظريات جرين وستوكس .

كبلر، الاتزان والطاقة الكامنة، الاستقرار وشروطه، معادلة لاكرانج وهاملتون. الاتزان الحراري، قوانين الديناميكا الحرارية، العمليات الحرارية المختلفة، الغاز المثالي والغاز الحقيقي، الماكنة الحرارية، طاقة التحول، دورة كارنوت، دالة جيبس، دالة هيلمهولتز، علاقات ماكسويل، معادلة كلاسيوس - كلايرون.

الجهد الكهربائي، معادلة لابلاس، معادلة بويزن، الكهربائية الناتجة عن التفاعلات الكيميائية والناتجة عن الفرق في درجات الحرارة، العازل الكهربائي، النفاذية، السماحية، الإزاحة، الاستقطاب، الخصائص المغناطيسية للمواد، الملف، الحث، الحث المتبادل، التيار المتناوب، الممانعة، الرنين، دوائر الرنين، الموجات الكهرومغناطيسية، معادلات ماكسويل. النظرية الموجية للضوء، جبهة الموجه، مبدأ هايجنز، تجربة يونغ، أهداب التداخل، تقزح الضوء، استقطاب الضوء، قانون بروجستر، الانكسار المزدوج، الطبيعة الكهرومغناطيسية للضوء، المبادئ الأولية لفيزياء الليزر.

عنصر الكربون، الروابط الكيميائية في المركبات العضوية، الهيدروكربونات الأليفاتية وأنواعها، الهيدروكربونات الأروماتية (العطرية)، المشتقات الوظيفية للهيدروكربونات، الكحولات، الفينولات، الأثيرات، الألدهيدات، الكيتونات، الأحماض الكربوكسيلية ومشتقاتها، الأمينات، البولييمرات، البترول والغاز الطبيعي، الصناعات البترولية، المكونات

الأساسية للخلية الحية، البروتينات، الإنزيمات، الحامض النووي، الفيتامينات، الهرمونات.

الانحراف عن الاتزان البيئي، الطاقة وإنتاجها، مصادر الطاقة التقليدية، مصادر الطاقة غير التقليدية، تلوث الهواء، زيادة نسبة ثاني أكسيد الكربون، ظاهرة البيت الزجاجي، زيادة نسبة ثاني أكسيد الكبريت، الأمطار الحمضية، تلف طبقة الأوزون، تلوث اليابسة والبحار، الفضلات الصناعية، الفضلات النووية، زيادة نسبة الإشعاعات، التفجيرات النووية، الضوضاء، الكثافة السكانية. مسؤولية الفرد والمجتمع تجاه البيئة، قوانين حماية البيئة.

ب. مساقات الرياضيات

١- المساقات الاجبارية

- التكامل : بصفته عملية عكسية للتفاضل - حساب التكامل المحدود - النظرية الأساسية في التكامل - التكامل بالتعويض والتكامل بالتجزئ وباستخدام الكسور الجزئية. - تطبيقات على التكامل : الحجوم الدورانية - طول قوس من منحنى - المساحة السطحية لجسم، مركز اتران شريحة مستوية - عزم القصور الذاتي وطاقة الحركة . - الدوال المتعددة المتغيرات : تعريف الدوال ذات متغيرين أو أكثر - نهاية دالة متعددة المتغيرات - دراسة اتصال دالة متعددة المتغيرات - إيجاد المشتقات الجزئية واستخدام قاعدة السلسلة - التكامل المضاعف وتطبيقاته .

- طرائق حل نظم المعادلات الخطية المتجانسة وغير المتجانسة. - المصفوفات والمحددات : خواصها والعمليات الجبرية عليها واستخدامها في حل نظم المعادلات الخطية - الفراغات المتجهة والفراغات المتجهة الجزئية. - التحويلات الخطية : تعريفها - خواصها - العمليات الجبرية عليها - ارتباطها بالمصفوفات. - دراسة القيم والمتجهات المميزة للمصفوفات.

- الإحداثيات الكارتيزية والقطبية في المستوي . - معادلة المستقيم في المستوي وكذلك معادلة الدائرة. - دوران المحاور وانتقالها. - القطوع المخروطية. - الفضاء الاقليدي : المستقيم والمستوي في الفضاء الاقليدي.

- المنطق الرياضي وجداول الصواب والخطأ. - جبر المجموعات - الضرب الديكارتي - المجموعات القابلة للعد . - العلاقات : لتعرف العلاقات وأنواعها - علاقة التكافؤ. - الدوال تعريفها وخواصها والعمليات عليها وإيجاد الدوال العكسية. - العمليات الثنائية على المجموعات وخواصها .

المتسعات، طاقة المتسع، شحن المتسع خلال مقاومة، التيار الكهربائي، المقاومة النوعية، القوى الدافعة للكهربائية، قانون اوم، قسواءعد كير تششوف . المجال المغناطيسي، القوة المغناطيسية، قانون بايوت وسفرت، قانون لينز، قانون أمبير، الحث المغناطيسي، قانون فراداي . معادلات ماكسويل الكهرومغناطيسية، الطيف الكهربائي المغناطيسي . الضوء، سرعة الضوء، قاعدة فيرمات، الانعكاس، الانكسار، قاعدة سنيل، الحيود، الاستقطاب، الاستطارة، التحلل .

مبادئ النظرية النسبية الخاصة، تغير الكتلة والطول والزمن مع السرعة، تكافؤ الكتلة والطاقة، مبدأ التكافؤ . التركيب الذري، تجربة رذرفورد، النماذج الذرية، ذرة الهيدروجين، نظرية بور الذرية، طيف الهيدروجين، المفهوم الجسيمي، المفهوم الموجي، المبدأ الثنائي، مبدأ التطابق، مبدأ التكامل، مبدأ الاستثناء، مبدأ اللايقين، معادلة شرودنجر الموجية، تطبيقات مختلفة على معادلة شرودنجر الموجية . الأشعة السينية، إنتاجها وخصائصها، تفاعلها مع المادة، التأثير الكهروضوئي، تأثير كومبتون، توليد زوج الإلكترون - البوزترون . النواة الذرية، التحلل النووي، عمر النصف، تحلل ألفا، تحلل بيتا الموجب، تحلل بيتا السالب .

العناصر والمركبات الكيميائية، الحالات الفيزيائية للمادة، التركيب الذري للعناصر، الجدول الدوري للعناصر، دورية الخواص

الفيزيائية والكيميائية، الروابط الكيميائية، الغازات، قوانين الغازات، السوائل والمواد الصلبة، المحاليل، الاتزان الكيميائي، النشاط الإشعاعي للعناصر، مقدمة عن الكيمياء الكهربائية، دراسة نماذج مختارة من الغازات ومن اللافلزات، الصناعات الكيميائية المرتبطة بها

الصحة وأهميتها في حياة الفرد والمجتمع، التربية والصحة، أهداف التربية الصحية ومقوماتها، دور المنزل والأسرة في التربية الصحية، دور المدرسة في التربية الصحية، دور المؤسسات المجتمعية في التربية الصحية، أجهزة تنظيم وإدارة التربية الصحية، وسائل التربية الصحية، مجالات التربية الصحية. الصحة الشخصية، سلامة الحواس، التغذية وسوء التغذية، صحة الأسرة، صحة المجتمع.

الذرات والجزيئات والروابط الكيميائية، التركيب الكيميائي للمادة الحية، الماء والمركبات غير العضوية، الكربوهيدرات، الدهون، الحامض النووي، الوحدة البنائية للكائنات الحية، الخلية، الغشاء الخلوي، السيوتوبلازم، خواص الخلية الحيوانية والنباتية، التفاعلات الحيوية، تفاعلات البناء، البناء الضوئي، البناء الكيميائي. تفاعلات الهدم، التنفس الهوائي، التنفس اللاهوائي، أنواع الخلايا، النمو والتميز والتكاثر، الانقسام الخلوي، قوانين الوراثة، المادة الوراثية، التباين الوراثي، الطفرات الوراثة.

علم المنظومات . طبيعة المادة نشوء الكون، المنظومة الشمسية والقمر، نشوء الأرض، أبعاد اليابسة، أبعاد المحيطات، أبعاد الغلاف الجوي . طبقات الغلاف الجوي، مكونات الهواء، الطيف الشمسي، تفاعل الطيف الشمسي مع الغلاف الجوي، امتصاص الأشعة فوق البنفسجية، طبقة الأوزون . البحار، مكونات مياه البحار ونسب الأملاح، المياه الجوفية، مياه الأنهار، تفاعل الطيف الشمسي مع الماء . اليابسة ومكوناتها، نسب توافر العناصر وتوزيعها، دورة العناصر الحيوية . الإشعاع الطبيعي، اليورانوم، الكربون- ١٤، الاتزان البيئي والحياة.

اصل الأرض . عمر الأرض، التاريخ الجيولوجي للأرض، مكونات القشرة الأرضية، العمليات الداخلية، الزلازل، البراكين، حرارة باطن الأرض، العمليات الخارجية، المياه السطحية والجوفية . مغناطيسية الأرض . نظرية حركة الألواح، الخرائط الطبوغرافية والجيولوجية، البلورات، المعادن، الصخور النارية، الصخور البركانية، الصخور الرسوبية، الصخور المتحركة.

ب . المساقات الاختيارية

مفاهيم أساسية، السرعة والتعجيل بدلالة الإحداثيات القطبية، الأسطوانية، الكروية، حركة جسم في ثلاثة أبعاد، الزخم الخطي، الزخم الزاوي، البندول البسيط والتذبذب اللاخطي، القوة المركزية، قوانين

٢- تخصص العلوم والرياضيات

١. مساقات العلوم

١- المساقات الاجبارية

Introduction to PC Software. Topics will include edition and Word processing, spread sheets, and database software the course will focus on the interdisciplinary application of computers.

المتجهات، جبر المتجهات، الحركة في خط مستقيم، السقوط الحر، الحركة في مسار دائري، المقذوفات، قوانين نيوتن، الاحتكاك، الشغل، الطاقة الحركية، نظرية الشغل - الطاقة، القدرة .

الطاقة الكامنة، طاقة الجاذبية، طاقة المرونة، القوي الحافظة، قانون حفظ الطاقة الميكانيكية، الزخم، الدفع، قانون حفظ الزخم الخطي، التصادمات المرنة وغير المرنة. الحركة الدورانية، عزم القصور الذاتي، طاقة الحركة الدورانية. الموجات الميكانيكية، معادلة الموجة، طاقة الموجة، التداخل والضربات، تأثير دوبلر . الحرارة ودرجة الحرارة، التمدد الحراري، التوصيل الحراري، السعة الحرارية النوعية، القانون الأول للديناميكا الحرارية .

الشحنة الكهربائية، قانون كولوم، القوة الكهربائية، المجال الكهربائي، قانون جaus، الشئائي القطبي، الجهد الكهربائي، الطاقة الكهربائية، العلاقة بين الجهد الكهربائي والمجال الكهربائي .

العروضية، وأجزاء البيت وأجزاء التفعيلة، ودراسة البحور الشعرية الستة عشر مثل: الطويل والكامل والبسيط والوافر والرجز وسواها.

يتضمن هذا المساق لمحة عن العصر العباسي وملامح الحياة السياسية والعقلية والاجتماعية وتطور الحركة الأدبية وأبرز قضايا التجديد فيها والوقوف عند أبرز أعلام الشعراء في العصر العباسي الأول (بشار وأبو نواس وأبو العتاهية وأبو تمام)، وتناول النثر في هذا العصر والوقوف عند أبرز أعلامه (ابن المقفع وسهيل بن هارون) وتناول العصر الثاني والوقوف عند أبرز أعلام الشعر (البحتري وابن الرومي والمتنبي وأبو العلاء المعري)، وعند أبرز أعلام النثرين (الجاحظ) ثم دراسة نماذج تطبيقية من أدب العصر العباسي بحيث تغطي كل ما سبق .

لمحة تاريخية عن العصر الجاهلي والحياة الاجتماعية والفكرية والعقلية، أولية الشعر ومصادره ورواته، أبرز اتجاهاته، شعراء المعلقات (امرؤ القيس، ولبيد، وعنترة وطرفة، والحاتر بن حنظل وعمر بن كثر) والنابغة والشعراء الفرسان والصعاليك) . النثر في العصر الجاهلي: الخطابة والوصايا والحكم والأمثال، وبعد ذلك دراسة نماذج تطبيقية على اتجاهات هذا العصر كلها شعرا ونثرا.

وأعلام مدرسة ابولو، وبعض النصوص النثرية، القصة والمسرحية والمقالة والسير الذاتية، ثم دراسة نماذج تطبيقية تغطي معظم المدارس والاتجاهات والفنون النثرية.

ب- المساقات الاختيارية

يتضمن هذا المساق تاريخ البلاغة وإعجاز القرآن، ففي تاريخ البلاغة: البلاغة وتطورها في العصر الجاهلي والإسلامي، وأثر القرآن الكريم في تطور البلاغة، والبلاغة في المؤلفات القرآنية وفي كتب الأدب، وفي كتب النقد، في مختلف العصور، النشأة، والنضج، والجمود. أما إعجاز القرآن فيتضمن: التعريف بالإعجاز ودليله، وآراء العلماء في الإعجاز وخروج الأسلوب القرآني عن أساليب العرب ودراسة خصائص أسلوب القرآن والتصوير الفني، وتناول بعض كتب الإعجاز (نكت الرمان)، و(إعجاز الباقلائي) والتصوير الفني لسيد قطب .

أولاً: البديع: هو العلم الثالث من علوم البلاغة، ووظيفته: تحسين الكلام وتزيينه، ويتعرض هذا المساق لدراسة أبرز ألوانه وأهمها وأبرزها دورانا واستعمالا للمحسنات اللفظية من جناس وسجع واقتباس والمحسنات المعنوية من تورية وطباق ومقابلة وأضرابها.

ثانياً: العروض: هو علم موسيقى الشعر، ولا بد للطالب من تعلمه ليميز صحيح الشعر من فاسده، والمنظوم من المنثور، إذ إن الوزن هو المعلم الأول الفارق بين الشعر والنثر . فيبدأ الطالب بدراسة أهم المصطلحات

ب. مسافات اللغة العربية

١- المسافات الاجبارية

دراسة الموضوعات النحوية: البناء والإعراب من الأسماء والأفعال، والإعراب بالعلامات الأصلية والفرعية، والأسماء الستة والمثنى والجمع بأنواعه، والمقصور والمنقوص. بناء الأفعال وإعرابها، ونواصب الفعل المضارع وجوازمه، والأفعال الخمسة.

يتضمن المساق موضوعات: الجملة الاسمية وأحكامها (المبتدأ والخبر). ما يدخل على الجملة الاسمية من النواسخ: حروفاً وأفعالا، وأفعال المقاربة والرجاء والشروع والأفعال ظن وأخواتها، والفاعل ونائبه وأحكامهما، وإعراب الجمل: التي لها محل من الإعراب، والتي لا محل لها.

يتضمن المساق الموضوعات التي لم يدرسها الطالب في نحو (١) ونحو (٢) ماعدا الفاعل الذي تعاد دراسته لارتباطه بالمنصوبات، المنصوبات وأحكامها: المفعول به والمفعول المطلق والمفعول لأجله والمفعول فيه، والمفعول معه، والحال، والتمييز، والمناذى، والمستثنى، والتوابع: النعت والعطف، والتوكيد والبدل.

التعريف بالحياة الأدبية في صدر الإسلام، وموقف الإسلام من الشعر والشعراء، الشعراء المخضرمون وأثر الإسلام في شعرهم

(حسان بن ثابت وكعب بن زهير)، شعر الفتوح، ودراسة نماذج شعرية متنوعة. النثر في هذا العصر (صدر الإسلام) ولاسيما الخطابة، ودراسة نموذج من الخطابة. أما العصر الأموي: دراسة لمحة تاريخية عنه، وعوامل ازدهار الشعر والمؤثرات العامة فيه وشعراء النخائل (جرير والفرزدق والأخطل) وشعراء الفرق الإسلامية: الزبيريون والخوارج، وشعراء الغزل: المادي والعذري، وشعراء الزهد والخطابة (زياد بن أبيه، والحجاج، ومعاوية بن أبي سفيان). ودراسة نماذج أدبية لكل اتجاه.

يرمي علم الصرف إلى دراسة بنية الكلمة وأصولها وما يجري عليها، وإلى معرفة وزنها وما يطرأ عليها من حذف أو زيادة، وما في تغيير المبنى من أثر في تغيير المعنى، ومعرفة الأطر الصرفية المختلفة التي ترد عليها الكلمة. فيدرس الطالب من أبواب الصرف -مثلاً- الميزان الصرفي والمجرد والمزيد، والمشتقات، والإعلال، والإبدال، والتصغير والنسب، وغيرها.

التعريف بفقهاء اللغة وموضوعاته، وعناصر اللغة، وأقسام علم اللغة، وأصل اللغات وأشهر فصائلها، والعربية قبل الإسلام وسيادة لهجة قریش، وخصائص اللغة العربية (الإعراب، الاشتقاق، الترادف، المشترك اللفظي، التضاد)، وموقعها من اللغات الأخرى، ودراسة نصوص تطبيقية من كتب فقه اللغة.

دراسة علمي البيان والمعاني: ففي علم البيان يدرس: تعريف الفصاحة، وفنون البيان: التشبيه، والمجاز وأنواعهما، والاستعارة وأنواعها، والكناية وأنواعها. وفي علم المعاني يدرس: الخبر تعريفه وأغراضه وخروجه عن الظاهر، والإنشاء الطلبي وغير الطلبي، وأحوال الإسناد، والقصر، والفصل والوصل، والإطناب والإيجاز والمساواة.

التعريف بالنقد قديماً وحديثاً ودراسة أبرز مناهجه واتجاهاته، لمحة عن النقد في العصر الجاهلي وعصر صدر الإسلام. وتطور النقد عند العرب والوقوف عند أبرز أعلامه (ابن سلام، وابن قتيبة، والجاحظ، والأمدي، والجرجاني)، ودراسة بعض قضايا النقد العربي (قضية اللفظ والمعنى، والسرقات الأدبية وعمود الشعر، والقديم والحديث) ثم تناول النقد الحديث وأبرز اتجاهاته (النقد التأثري والمنهج التاريخي والنفسى والجمالى). وبعد ذلك دراسة نماذج تطبيقية من النقد القديم والحديث.

يستهدف مساق الأدب العربي الحديث، إطلاع الطلاب على عوامل ازدهار الأدب في العصر الحديث من امتزاج الثقافات وانتشار الطباعة والصحافة والترجمة. وكذلك الاطلاع على أهم المذاهب الأدبية والفنية وأبرز أعلام هذه المذاهب شعراً ونثراً كإعلام مذهب إحياء التراث، كالبارودي، وشوقي، وحافظ. وأعلام مدرسة الديوان ومدرسة الشعر الحر

وأهم الأحداث في هذه الفترة والدروس المستنبطة منها .

رضوان الله عليهم أجمعين ، وحياتهم قبل الإسلام وصفاتهم الشخصية . ثم إسلامهم وحبهم لله ورسوله وحسن بلائهم في الإسلام ، وفضائلهم ومناقبهم الكثيرة ، وأحاديث الرسول الكريم في فضلهم وورعهم ومنزلتهم عند الله ، وحب الناس لهم . ثم دورهم في نشر الإسلام ومجاهدة أعدائه ، والدروس والعبر المستفادة من سيرتهم العطرة .

يتضمن المساق تعريف علم أصول الفقه وأهميته ، ثم شرحاً لأهم مباحثه مثل المباحث المتعلقة بالحكم الشرعي وأقسامه كالمندوب والحرام والمكروه والمباح والعزيمة والرخصة والحكم الوضعي وأقسامه ، والسبب والشرط المانع والصحة والبطالان ، والحاكم والمحكوم فيه وشروطه ، والمحكوم عليه . والأهلية وعوارضها وأقسامها ، وأدله الأحكام وطرق استنباطها ، والقواعد الأصولية اللغوية .

يتضمن المساق بعض أبواب الفقه في أمور المعاملات كالبيع وحكمه ، ومشروعيته ، وأركانه ، وشروطه . بعض المباحث المتعلقة به كالخيار ، وأنواعه وشروطه ومدته واختلاف المتبايعين في شأن المبيع . والسلم والرهن والقرض والحجر ، والمضاربة ، والشركة ، والإجارة ، والوكالة ، والحوالة ، والوديعة ، والهبة ، والوصية .

يتضمن المساق التعريف بهذا العلم الشريف ثم دراسة مجملة عن الشريعة الإسلامية وخصائصها وغاياتها وأهم الأحكام المتعلقة بها . ثم بيان الداعي وصفاته وما يجب أن يكون عليه حاله والمؤهلات التي تؤهله لهذا العمل . وأنواع الدعوة وأشكالها وأساليبها ومستلزماتها . والمدعويين وأنواعهم وصفاتهم . ثم أعداء الإسلام وأنواعهم ومواصفاتهم . والأساليب الدعوية الناجحة لعرض الإسلام والحوار والمواجهة مع المخالفين .

ب - المساقات الاختيارية

يتناول المساق مقدمة عن علوم الحديث من حيث النشأة والتطور ، ثم تبيان أنواع الحديث ، ومنها الحديث الصحيح ، وموقعه في الكتب الصحاح ومكانة الصحيحين والمستخرجات عليها والمساند والسنن . والكتب الستة ونبذة عن شروحاتها . ثم الحديث الحسن وأقسامه والحديث الضعيف وأقسامه والخبر الموضوع وحكم روايته ، وحكم المتهم بالكذب المتعمد ، والقواعد التي وضعها العلماء في سماع الحديث وتحمله وضبطه ، وأنواع الرواية .

يتناول المساق سيرة الخلفاء الراشدين الأربعة : أبي بكر وعمر وعثمان وعلي

يتضمن المساق أحاديث نبوية مختارة في أبواب الفقه المختلفة ، مثل أبواب / الطهارة وما يتعلق بها كأحكام المياه . والأنية ، والوضوء . والصلاة وأحكامها . وصلاة المسافرين . والمريض ، والجنائز ، والصوم وأحكامه : كثبوت رؤية هلال رمضان وشوال ، وكفارة المفطر في رمضان بلا عذر وما إلى ذلك من أحكام . والحج وأحكامه : كالمواقيت ، والفوات ، والإحصار . والبيوع وأحكامها / ما جاز منها وما حرم : كالبيع ، والسلم ، والربا .

يشتمل المساق على بعض أهم الأبواب الخاصة بالأحوال الشخصية . ودراستها دراسة مقارنة مستوفية لأهم آراء العلماء وأدلتهم فيما ذهبوا إليه وصححوه . من ذلك مباحث الزواج وأحكامه ، وحقوق الزوجين ، وفرق النكاح وأحكامه كالطلاق والخلع والعدة . وأحكام الرضاع والنسب والتبني والحضانة وما إلى ذلك .

يتناول المساق كل ما يتعلق بسيرة المصطفى صلى الله عليه وسلم . من حيث مصادرها وأهمية دراستها دراسة تحليلية معمقة ، وأحوال العرب قبل الإسلام وقبيل البعثة الشريفة ، ثم العهد المكي وأهم أحداثه . وموقف العرب وقريش من الرسالة وتحليل ذلك الموقف من مختلف الجوانب . ثم الحديث عن الهجرة إلى الحبشة والهجرة إلى المدينة ، أسبابها ودواعيها ونتائجها . ثم العهد المدني وإنشاء الدولة الإسلامية الأولى في المدينة

مشاكل المهنة وحل التناقضات بين أدوارهم العقلية والمتوقعة.

ثالثاً : متطلبات التخصص

١ - تخصص الدراسات الاسلامية واللغة العربية

١ - المساقات الاجبارية

مفهوم أدب الأطفال، دور أدب الأطفال في بناء شخصية الطفل، أنواع أدب الأطفال وطرائق تدريسها، اختيار أدب الأطفال، وسائل أدب الأطفال المكتوبة والمسموعة والمرئية، المجهودات العالمية والعربية والمحلية في مجال أدب الأطفال، تحليل نماذج مختارة من أدب الطفل العالمي والإسلامي والعربي والمحلي.

قضايا ومشكلات المجتمع، التربية والتغير الاجتماعي، التربية والتكنولوجيا وأثر ذلك في مشكلات المجتمع، التربية والتنمية، التربية والإعلام، التخطيط لمواجهة المشكلات التربوية والاجتماعية، دراسة لبعض القضايا الخاصة بمجتمع الإمارات (العمالة الوافدة من شرق آسيا، اختلاف جنسيات المعلمين والتلاميذ، انتشار الخدم الأجانب في المنازل، التسرب من التعليم، توطين الوظائف، الأمية).

والفقه وبيان أقسامهما. وفصولاً ومباحث عن مصادر التشريع الإسلامي والأدوار التاريخية للتشريع الإسلامي وخصائصها، وبعض القواعد الكلية في الفقه الإسلامي. وشرحاً وافياً لبعض النظم الإسلامية.

يتناول المساق معنى العبادة وضرورتها للإنسان، وبعض أهم الأحكام المتعلقة بالعبادات، كالأحكام: الطهارة، والوضوء، والتميم، ونواقضهما، وبعض الأحكام الشرعية الخاصة بالنساء. وأحكام الصلاة: من حيث أهميتها وأوقاتها وشروطها وأركانها، وسننها وأدائها. وصلاة العيدين والجمعة، وصلاة الكسوف والخسوف، والاستسقاء وصلاة الجنازة، وأحكام الميت. وأحكام الزكاة ومصارفها. وأحكام الصوم، وأحكام الحج والعمرة.

يتناول المساق مباحث مهمة في مجال علم التوحيد، كالإيمان بالله تعالى وما يتضمنه هذا الإيمان من توحيد الألوهية وتوحيد الربوبية وتوحيد الأسماء والصفات. والإيمان بالمالئكة وبيان حقيقتهم وصفاتهم والحكمة من وجودهم. والإيمان بالأنبياء والمرسلين وما أرسلوا به من شرائع وكتب منزلة ومقتضى هذا الإيمان. ثم الإيمان باليوم الآخر وما يتعلق به من أمور الغيب التي وردت في الكتاب والسنة النبوية الشريفة. والإيمان بالقدر وعقيدة أهل السنة والجماعة في معناه ومغزاه ومقتضاه. وتعريفاً بالفرق والمثل والنحل، ورد باطل المنحرف منها.

يتضمن المساق تعريفاً بالقرآن الكريم من حيث اللغة والاصطلاح وآراء العلماء في ذلك وتنزيلات القرآن، وأسباب النزول، وجمع القرآن الكريم وترتيبه وإعجازه وقراءته والتفسير القرآني وأصوله، وبعض العلوم المتعلقة به كالمحكم والمتشابه والعام والخاص والناسخ والمنسوخ والفرق بين التفسير والتأويل، وأشهر التفاسير ومؤلفيها، وأصول التلاوة وتطبيقاتها العملية. كما يتضمن المساق معرفة أصول التلاوة وقواعدها، مصحوباً بالتطبيق العملي لتلاوة القرآن الكريم على وفق قواعد التجويد.

يتضمن المساق نصوصاً من القرآن الكريم تكون محل دراسة وتحليل من مختلف الجوانب اللغوية والشرعية، وتعرض أهم أقوال المفسرين القدماء والمحدثين في النصوص المدروسة. ثم تختار بعض هذه النصوص للحفظ على وفق الأصول المرعية.

يتضمن هذا المساق أبواباً ومداخل مهمة للعلوم الشرعية، ومدخلاً يبين ضرورة وجود التشريعات لتنظيم الحياة الاجتماعية والشخصية للإنسان ثم تعريفاً بالشرعة

والتطبيقات التربوية له، دراسة مرحلة الطفولة (النمو بأنواعه، الطفل في الأسرة، والمدرسة) مرحلة المراهقة (فتراتهما، معناها، أهم التغيرات فيها، المراهق والحياة المدرسية، المراهق والأسرة، مطالب النمو ومشكلاته).

مقدمة في علم النفس التربوي، الأهداف التعليمية وتصنيفها، مبادئ نمو المتعلم، الخصائص النمائية للمتعلم، النمو المعرفي للمتعلم، النمو الاجتماعي ونمو الشخصية، الدافعية للتعليم، التعلم (الاشراط الكلاسيكي والإجرائي) التعلم المعرفي، الظروف المساعدة على التعلم والتدريب، التعلم من أجل انتقال التدريب، حل المشكلات، القدرة الذكائية وقياسها، التقويم التربوي والنفسي.

مفهوم تكنولوجيا التعليم وتعريفاتها، أهميتها ودورها في عمليتي التعليم والتعلم، عملية الاتصال، الأسس العامة لاختيار الوسائط التعليمية (البصرية، السمعية، السمعية والبصرية، الملموسة، أخرى)، التعلم من خلال المجموعات والتعلم الفردي، إنتاج بعض الشفافيات والشرائح واللوحات باستخدام الحاسوب وأجهزة أخرى.

ب. المساقات الاختيارية

يرمي هذا المساق الى تنمية وعي الطلاب بمهمة التعليم باعتبارها مهنة ذات أصول علمية وعناصر تنظيمية ودساتير أخلاقية. كما يرمي إلى مساعدة الدارسين على مواجهة

الحصص ويراعى فيها تنوع الصفوف وتنوع المواد تحت إشراف عضو هيئة التدريس من الكلية ومشاركة موجه من وزارة التربية والتعليم ومدير أو مديرة المدرسة التي يتم فيها التدريب.

تحليل محتوى منهج الرياضيات في المرحلتين الابتدائية والإعدادية، أهداف تدريس الرياضيات فيهما، معايير اختيار الأهداف ومستوياتها وتصنيفها، صياغة أهداف تدريس الرياضيات، الطرائق والأساليب المختلفة لتدريس الرياضيات، المفاهيم الرياضية واستراتيجيات تدريسها، المبادئ والتعميمات الرياضية، الخوارزميات والمهارة الرياضية، مهارات تدريس الرياضيات.

دراسة المجتمعات الإنسانية، السمات العامة والمقومات الرئيسية لمجتمع الإمارات، السكان، نمو السكان، التركيب النوعي، التركيب العمومي، التركيب الاقتصادي، التوزيع الجغرافي للسكان، النظام الأسري، خصائص الأسرة التقليدية، الخصائص البنائية والوظيفية والزواجية، القرابة والنظام القبلي، الحكم في المجتمع القبلي، التغير الأسري، عوامل التغير الأسري، التغير في النظام القبلي، الخدمات الاجتماعية قبل النفط، الخدمات الاجتماعية بعد اكتشاف النفط، المؤسسات الثقافية والتربوية والإعلامية ودورها الوظيفي.

علم نفس النمو وأهميته، مناهج البحث فيه

التقويم التربوي (مفهومه، أهميته، تعريفاته، علاقته بالقياس) التقويم بصفته مدخلا للتطوير، الأسس التي تقوم عليها عملية التقويم، مجالات التقويم، أساليب التقويم، أدوات التقويم، العوامل المؤثرة في عملية التقويم، التقويم التربوي في دولة الإمارات العربية المتحدة.

-تعليم القراءة (مفهوما، أهميتها، أهداف تعليمها وطرائقها وتشخيص الضعيف منها) تعليم الكتابة (مفهوما، مهارات الإملاء والخط والتعبير التحريري وطرائق تدريسها) -تعليم الكلام (طبيعته، مفهومه، مهاراته وأساليب تدريسه ومواقفه) -تعليم قواعد اللغة العربية ومشكلات النحو العربي ومحاولة تيسيره وطرائق تدريسه. -تعليم الأدب والنصوص والبلاغة.

Following the study in Methodology I, this course addresses itself to the four macro-language skills and their sub-skills: the teaching of vocabulary, reading, writing, speaking, grammar, and texts. Theory will be supported by lesson demonstration, peer and microteaching.

في الأسابيع الأولى من بدء العملية يقوم الطلبة بمشاهدة بعض المعلمات والمعلمين حين قيامهم بالتدريس، ومن ثم مشاهدة زملائهم ونقد المشاهدة. وأخيرا تدريس بعض

والتعليم المصغر ، التدريس الفعال ، التعليم بصفته مهنة ، أدوار المعلم وتطور مسؤوليته ، المسؤوليات التي تواجه المعلم .

أهداف تدريس التربية الإسلامية ، الأساليب والوسائل التي تسهم في إنجاز تدريسها مهارات إعداد الدروس وتنفيذها ، تدريس العقيدة ، تدريس القرآن الكريم ، تدريس الحديث الشريف ، تدريس العبادات ، تدريس القصص الدينية والسيرة .

بنية التخصص ، فلسفة تعليم التخصص بفروعه المختلفة ، خصائص المتعلمين ، نظريات التعليم والتعلم ، المناخ الصفّي ، متطلبات التعليم والتعلم المختلفة ، التقويم ، الجانب العملي (إعداد : جدول مواصفات المحتوى ، درس لتنمية مهارات التفكير ، درس باستخدام دورة التعلم ، درس باستخدام المدخل الكشفي ومدخل حل المشكلات ، الألعاب التعليمية ، الاختبارات التحصيلية) .

In this course the students will be exposed to the foundations for developing their professional and competencies. The studentUSes learn basic concepts such as approach , and method . The different approaches to language teaching , lesson planning and the different methods of teaching English as a Second language in the elementary stage will be dealt with .

والبديلة ، كما يناقش مظاهر وتبعات تلوث الماء والهواء والتربة وبذل الجهود للحد من آثارها الضارة على الإنسان والبيئة ، ويعطي المساق اهتماماً خاصاً لقضايا البيئة والمياه والطاقة في دولة الامارات العربية المتحدة ودول مجلس التعاون الخليجي .

ثانيا : متطلبات الكلية 1. المساقات الاجبارية :

مفهوم التربية ، الأصول التاريخية للتربية ، الأصول الاجتماعية للتربية ، الأصول الفلسفية للتربية ، الأصول النفسية للتربية ، الأصول الاقتصادية للتربية ، الأسس التي تقوم عليها الأنظمة التعليمية ، الإدارة التعليمية والإدارة المدرسية ، مهام الإدارة لمدير المدرسة ، التوجيه الفني وصلته بنظم التعليم .

المفهوم التقليدي للمنهج ، المفهوم الحديث للمنهج ، الأسس التي تقوم عليها المناهج (السيكولوجية ، الفلسفية ، الاجتماعية) .
تنظيمات المنهج المختلفة ، (المواد المنفصلة ، المترابطة - منهج المجالات الواسعة ، الوحدات الدراسية ، النشاط ، المنهج المحوري - تطويرها) ، تطوير المناهج .

العلاقة بين طرائق التدريس وعناصر المنهج الأخرى ، الأسئلة العامة التي تحيى عنها طرائق التدريس ، دراسة الطرائق التدريسية (العرض ، الاستقرائية ، التوليفية ، الاكتشاف ، التعيينات ، حل المشكلات ، التعليم الذاتي)

إعطاء الطالب فكرة عامة عن المبادئ الأولية و المفاهيم الأساسية في مجالات علم النفس المختلفة مثل التعلم والدوافع والشخصية والموضوعات ذات العلاقة بالسلوك الإنساني وبخاصة ما سيكون عوناً له على استيعابه مساقات أخرى مثل علم النفس التربوي ، علم نفس النمو ، وكذلك مساعدة الطالب على تكوين اتجاه إيجابي نحو علم النفس وعلى إدراك أهميته التطبيقية في مجالات الحياة المختلفة مما قد يولد في نفسه الرغبة في متابعة دراسة علم النفس سواء بالمطالعة الذاتية أم الدراسة المنتظمة فيما بعد .

يرمي المساق إلى أن يكون الطالب بعد دراسته قادراً على معرفة: مفهوم العلم وأهدافه ومفهوم البحث العلمي وخصائصه ، ومفهوم البحث التربوي والعلاقة بين البحث العلمي والبحث التربوي والأخطاء الكامنة في البحث التربوي ، خطوات إعداد مخطط البحث ، التقنيات المختلفة للبحوث التربوية وأنواعها المختلفة ، معرفة أدوات جمع البيانات وخصائصها وكيفية إعدادها وكيفية استخدامها ، إعداد بعض التصاميم المختلفة للبحث العلمي . كتابة تقرير البحث ، اختيار مشكلة تربوية وإعداد مخطط بحث لها .

هذا المساق يتقّف الطالب بالمفاهيم الأساسية والعناصر الرئيسية والتي تشمل الغلاف الجوي والغلاف المائي والغلاف الصخري وتفاعلها وتأثيرها بالأنشطة البشرية ، يناقش المساق موارد المياه وموارد الطاقة التقليدية

أولاً : متطلبات الجامعة المساقات الاجبارية :

التطبيقية، الشبكات، تصميم الرسومات،
الوسائط المتعددة، الانترنت، استرجاع
المعلومات، الجوانب القانونية والأخلاقية في
تقنية المعلومات.

والدور الذي أدته علوم المسلمين في التطور على
مستوى عالمي .

يتضمن هذا المساق دراسة مبحث التقدم
العلمي، ماهيته وظروفه وخصائصه ويشمل
ذلك الموضوعات الآتية : المعرفة الإنسانية،
العلم وطريقته ومحدوديته، البحث العلمي
وقيمة العلم، النمو المتسارع للعلم، العلم عند
الإغريق والعلوم عند المسلمين، براءات
الاختراع .

English I is a course in English as a foreign language at the intermediate level. It provides practice in the language skills of listening, speaking, reading and writing and a review of structures. There is a functional- notional element in the course. The language laboratory is used for listening and speaking practices.

This is a course in English for specific purposes at the intermediate level in the student's major subjects. It provides practice in the language skills while emphasizing the structures, vocabulary and registers appropriate to the students' fields.

يهدف المساق إلى : تزويد الطالب بقدر مناسب
من الطرق والمفاهيم الأساسية لعلم الإحصاء
مما يسهم في إكسابه القدرة على التعامل مع
البيانات وكيفية عرضها واستخلاص المؤشرات
منها . حيث يدرس الطالب موضوعات عرض
البيانات وتبويبها ، مقاييس النزعة المركزية ،
مقاييس التشتت ، الاحتمالات ، القيمة المعيارية
والمنحنى الاعتيادي ، معاملات الارتباط
والانحدار

ب. المساقات الاختيارية :

يرمي هذا المساق إلى التعريف بالأسس التي
قامت عليها الحضارة الإسلامية بصفتها حضارة
إنسانية عالمية . ودراسة أهم المنجزات العلمية
عند المسلمين في مجالات الميكانيكا والبصريات
والفلك والطب والعقاقير ، مع التركيز على
العوامل التي ساعدت على تحقيق تلك الإنجازات

الثقافة الإسلامية وأهميتها ، أهمية الدين في
حياة الإنسان . أثر العقيدة الصحيحة في حياة
الإنسان وسلوكه . العقيدة الإسلامية و أركان
الإسلام . القرآن والسنة . المجتمع الإسلامي
ونظامه التشريعي . المرأة ومكانتها في
الإسلام . الغزو الفكري وأهدافه ووسائله
وأخطاره . حفظ سورة من القرآن الكريم مع
تفسيرها . وقضايا أخرى تخص المساق وتعالج
من خلاله .

يتضمن مساق اللغة العربية دراسة فروع اللغة
العربية التي تناسب الطالب الجامعي غير
المتخصص ، كدراسة بعض النصوص الرفيعة
شعرا ونثرا ، بحيث تختار من مختلف عصور
الأدب ، وذلك للوقوف على أساليب التعبير ،
وإجراء بعض التطبيقات اللغوية والنحوية
والصرفية والبلاغية عليها . بالإضافة إلى
دراسة بعض الأبواب النحوية : الجملة الاسمية .
والجملة الفعلية ، الإعراب ، البناء ، الإعراب
بالحروف ، العدد . وبعض القضايا الإملائية :
الهمزة ، والألف اللينة ، والتاء المربوطة
والفتحة .

يتضمن هذا المساق وصفا عاما لطريقة عمل
الحاسب وكيفية استخدامه بطريقة فعالة
وتعريف الطالب بالجوانب المختلفة لتقنية
المعلومات واستخدامها في المجالات المختلفة .
ويتناول المساق المواضيع : مكونات الحاسب ،
البرمجيات ، استرجاع المعلومات ، البرامج

— الدالة ذات المتغير الواحد — تعريفها —
مجالها — مداها — نهاية الدالة — دراسة اتصال
الدالة عند نقطة في مجالها وعلى فترة من
المجال .
— الدوال الأسية والدوال اللوغاريتمية والدوال
المتثلثة وكذلك الدوال الزائدية — ومعكوس كل
منها .
— الاشتقاق : تعريفه وقواعده — قاعدة السلسلة
— الاشتقاق الضمني — نظرية زولس ونظرية
القيم العظمى والصغرى ورسم المنحنيات .

٠٥١٢٣٤٠	طرائق تدريس العلوم	الأول	الثالثة
٠٥١٤٣٢٨	تكنولوجيا التعليم		
٠٥٥١٣٣٣	فيزياء (٣)		
٠٥١٤٣٣٠	مناهج البحث العلمي		
٠٥٥٥٤١١	أساسيات علوم البيئة		
٠٥٤٢٤٣١	جبر مجرد		
٠٥١٣٣٢٦	التقويم التربوي	الثاني	
٠٥١٣٤٤٠	طرائق تدريس الرياضيات		
-	اختياري رياضيات		
٠٥٤٤٣٢٥	تحليل حقيقي (١)		
٠٥٥٣٣٢٤	الصحة العامة وصحة الطفل		
-	اختياري علوم		
٠٥٥٦٤٣٦	جيولوجيا عامة	الأول	الرابعة
-	اختياري تربية		
٠٥٤٤٤٣٣	تحليل عقدي		
-	اختياري علوم		
-	اختياري رياضيات		
٠٥١٣٤٤٨	التربية العملية	الثاني	

للحصول على بكالوريوس في أساليب وتقنيات التعليم تخصص إعداد معلم مادة في الرياضيات والعلوم يجب على الطالب إنهاء ١٣٢ ساعة معتمدة موزعة كالاتي :

المتطلبات	البيان	عدد الساعات المعتمدة
متطلبات الجامعة	أ. الإجبارية	١٥
	ب. الاختيارية	٩
متطلبات الكلية	أ. الإجبارية	٣٩
	ب. الاختيارية	٣
متطلبات التخصص	الدراسات الإسلامية	
	أ. الإجبارية	٢٧
	ب. الاختيارية	٦
	اللغة العربية	
	أ. الإجبارية	٢٧
	ب. الاختيارية	٦
المجموع		١٣٢

السنة الدراسية	الفصل الدراسي	المساقات الدراسية	أرقام المساقات
الأولى	الأول	الإرشاد الأكاديمي	٠١١١٠٠٠
		الثقافة الإسلامية	٠٥٠٠١١٠
		اللغة العربية	٠٥٠٠١٢٠
		علم النفس العام	٠٥٠٠١٣٠
		رياضيات (١)	٠٥٤١١٠١
		أساسيات تقنية المعلومات	٣١٠١٠٠
		اللغة الإنجليزية / ١	٠٦٠٠١٠١
		الإحصاء	٠١٣٠١٣٠
		أصول تربية	٠٥١١١٠٦
		مجتمع الإمارات	٠٥١٤١٤٠
	الثاني	رياضيات (٢)	٠٥٤١١٠٢
		جبر خطي	٠٥٤٢١٠٤
		تطبيقات الحاسب الشخصي	٠٣١١١٠٢
		علم نفس النمو	٠٥١٤٢٠٩
		فيزياء (١)	٠٥٥١٢٠٥
		بناء المناهج وتطويرها	٠٥١٢٢١٨
		هندسة تحليلية	٠٥٤٢٢٠١
		معادلات تفاضلية	٠٥٤٣٢٠٣
		أساسيات علوم الحياة	٠٥٥٥٢١١
		طرائق التدريس العامة	٠٥١٣٢٠٧
	الثاني	فيزياء (٢)	٠٥٥١٢١٢
		علم النفس التربوي	٠٥١٤٢١٢
		تحليل متجهات	٠٥٤٤٢١٦
		نظرية المجموعات	٠٥٤٢٣٢٧
		كيمياء (١)	٠٥٥٢٢١٤

اسم المساق	رقم المساق	عدد الساعات	المتطلب السابق
١- رياضيات (٢)	٠٥٤١١٠٢	٣ (٢+٣)	٠٥٤١١٠١
٢- جبر خطي	٠٥٤٢١٠٤	٣ (٢+٣)	٠٥٤١١٠١
٣- هندسة تحليلية	٠٥٤٢٢٠١	٣ (٢+٣)	٠٥٤١١٠١
٤- نظرية المجموعات	٠٥٤٢٣٢٧	٣	٠٥٤١١٠١
٥- جبر مجرد	٠٥٤٢٤٣١	٣	٠٥٤٢٣٢٧
٦- معادلات تفاضلية	٠٥٤٣٢٠٣	٣ (٢+٣)	٠٥٤١١٠٢
٧- تحليل متجهات	٠٥٤٤٢١٦	٣ (٢+٣)	٠٥٤٢١٠٤
٨- تحليل حقيقي (١)	٠٥٤٤٣٢٥	٣ (٢+٣)	٠٥٤١١٠١
٩- تحليل عقدي	٠٥٤٤٤٣٣	٣ (٢+٣)	٠٥٤٤٣٢٥
١٠- تطبيقات الحاسب الشخصي	٠٣١١١٠٢	٣ (٢+٢)	٠٣١١١٠١
١١- فيزياء (١)	٠٥٥١٢٠٥	٣ (٢+٢+٢)	-
١٢- فيزياء (٢)	٠٥٥١٢١٢	٣ (٢+٢+٢)	٠٥٥١٢٠٥
١٣- فيزياء (٣)	٠٥٥١٣٣٣	٣	٠٥٥١٢١٢
١٤- كيمياء (١)	٠٥٥٢٢١٤	٣ (٢+٢)	-
١٥- أساسيات علوم البيئة	٠٥٥٥٤١١	٣	-
١٦- الصحة العامة وصحة الطفل	٠٥٥٣٣٢٤	٣	-
١٧- أساسيات علوم الحياة	٠٥٥٥٢١١	٣ (٢+٢)	-
١٨- جيولوجيا عامة	٠٥٥٦٤٣٦	٣	-

اسم المساق	رقم المساق	عدد الساعات	المتطلب السابق
١- نظرية العدد	٠٥٤١٤١٠	٣	إنجاز ٦٦ ساعة معتمدة
٢- تحليل حقيقي (٢)	٠٥٤٢٤٢٠	٣	٠٥٤٤٣٢٥
٣- تحليل عددي	٠٥٤٣٤٣٠	٣ (٢+٣)	٠٥٤٣٢٠٣
٤- الهندسة والتوبولوجيا	٠٥٤٤٤٤٠	٣	إنجاز ٦٦ ساعة معتمدة

اسم المساق	رقم المساق	عدد الساعات	المتطلب السابق
١- فيزياء (٤)	٠٥٥١٤٧٢	٣	٠٥٥١٢٠٥
٢- فيزياء (٥)	٠٥٥١٤٧٦	٣	٠٥٥١٢١٢
٣- كيمياء (٢)	٠٥٥٢٣٧٤	٣ (٢+٢)	٠٥٥٢٢١٤٣
٤- البيئة والتلوث	٠٥٥٥٤٧٨	٣	٠٥٥٥٤١١

اسم المساق	رقم المساق	عدد الساعات	المتطلب السابق ورقمه
١- الإحصاء	٠١٣٠١٣٠	٣ (٢+٢)	-
٢- أساسيات تقنية المعلومات	٣١٠١٠٠	٣ (٢+٢)	-
٣- الثقافة الإسلامية	٠٥٠٠١١٠	٣ (١+٢)	-
٤- اللغة العربية	٠٥٠٠١٢٠	٣	-
٥- اللغة الإنجليزية / ١	٠٦٠٠١٠١	٣	-

اسم المساق	رقم المساق	عدد الساعات	المتطلب السابق ورقمه	ملاحظات
١- علم النفس العام	٠٥٠٠١٣٠	٣	-	إلزامي
٢- مناهج البحث العلمي	٠٥١٤٣٣٠	٣	إنجاز ٦٠ ساعة معتمدة	إلزامي
٣- الرياضيات / ١	٠٥٤١١٠١	٣ (٢+٣)	-	إلزامي

اسم المساق	رقم المساق	عدد الساعات	المتطلب السابق
١- أصول التربية	٠٥١١١٠٦	٣	-
٢- بناء المناهج وتطويرها	٠٥١٢٢١٨	٣	-
٣- طرائق التدريس العامة	٠٥١٣٢٠٧	٣	٠٥١٢٢١٨
٤- طرائق تدريس العلوم	٠٥١٢٣٤٠	٣	٠٥١٣٢٠٧
٥- طرائق تدريس الرياضيات	٠٥١٣٤٤٠	٣	٠٥١٣٢٠٧
٦- التقويم التربوي	٠٥١٣٣٢٦	٣	٠٥١٢٢١٨
٧- مجتمع الإمارات	٠٥١٤١٤٠	٣	-
٨- علم نفس النمو	٠٥١٤٢٠٩	٣	٠٥٠٠١٣٠
٩- علم النفس التربوي	٠٥١٤٢١٢	٣	٠٥١٤٢٠٩
١٠- تكنولوجيا التعليم	٠٥١٤٣٢٨	٣	٠٥١٢٢١٨
١١- التربية العملية	٠٥١٤٤٤٨	٩	٠٥١٢٣٤٠ + ٠١٣٤٤٠٩ + إنجاز ١٠٢ ساعة معتمدة

اسم المساق	رقم المساق	عدد الساعات	المتطلب السابق
١- مهنة التعليم وأدوار المعلم	٠٥١١٣٣٨	٣	إنجاز ٦٠ ساعة معتمدة
٢- أدب الأطفال	٠٥١١٤٤٢	٣	إنجاز ٦٠ ساعة معتمدة
٣- التربية ومشكلات المجتمع	٠٥١٤٣٣٩	٣	إنجاز ٦٠ ساعة معتمدة

و استخدام طرائق اكتساب المعرفة العلمية في هذين المجالين من برهنة وتعليل وتوضيح واستخلاص الحقائق والبراهين والنظريات والقوانين والمبادئ الرياضية والعلمية .

٦ . تنمية ميول ومواقف الطالب - المعلم نحو دراسة الرياضيات والعلوم وتهينته لاستيعاب خصوصية وعلاقة الترابط والتكامل بينهما ، وإعداده لاستيعاب أهميتها في تطوير قدراته على تطبيق معارفه النظرية المكتسبة في كل منهما .

٧ . اكتساب الطالب - المعلم مهارات التعامل الهادف مع الأدوات والأجهزة المخبرية وإجراء التجارب المعملية والإلمام بأسس وقواعد استخدام التقنيات الحديثة وبخاصة الحاسوب بوصفه وسيلة تعليمية ومصدراً مهماً للمعلومات ومعالجتها .

٨ . تعريف الطالب - المعلم بإنجازات علماء الرياضيات والعلوم وإيضاح الإضافات العلمية العظيمة للعلماء المسلمين والعرب في تقدم الإنسانية والاعتزاز بها .

٩ . تزويد الطالب - المعلم بمعارف نظرية وتطبيقية في التربية وعلم النفس وطرائق التدريس بما يمكنه من استيعاب مهام المعلم وإدراك علاقة التأثير المشترك للقوانين التربوية والنفسية في تشكيل الدرس ، وإعدادهم للتخطيط والتنفيذ والتقويم الهادف لعمليتي التعلم والتعليم .

١٠ . تطوير موقف الطالب - المعلم من مهنة التدريس وإدراكه أن التعليم مهنة ورسالة ، وأن المعلم حجر الزاوية في إصلاح التعليم وتطويره .

١١ . تطوير قدرة واستعداد الطالب - المعلم على التعلم الذاتي والعمل العلمي المستقل وتطوير موقفه من الدراسة وتدريبه على طرائق الحصول على المعرفة وتشجيعه على القيام بالأبحاث والدراسات .

١٢ . تحقيق الربط الوثيق بين المعارف النظرية والتطبيقية التي يكتسبها الطالب في الكلية في المكونات المختلفة لبرنامج التأهيل بظروف وخصوصيات الواقع المدرسي . وجعل الطالب - المعلم في ارتباط دائم ووثيق بمجال عمله المستقبلي وتدريبه وتهينته للاضطلاع بمهامه التعليمية والتربوية بصورة مبدعة .

تسعى كلية التربية والعلوم الأساسية إلى تأهيل معلمين في الرياضيات والعلوم لتحقيق أهداف شبكة جامعة عجمان للعلوم والتكنولوجيا ، وبما يحقق الأهداف التربوية والتعليمية المنوطة بمعلم الرياضيات والعلوم في التعليم العام .

تستهدف كلية التربية والعلوم الأساسية :

١ . إعداد معلم سوي متمسك بعقيدته الإسلامية ومنتم إلى أمته ومستعد لخدمتها وحمايتها ، ومعترز بانتمائه إليها عقيدة وتاريخاً ولغة وثقافة وقيماً علياً ومستفيد من تراثها ومبرز لدورها الحضاري وسماتها وخصائصها الإسلامية والإنسانية .

٢ . تطوير الثقافة العامة للطالب - المعلم وتزويده بمعارف علمية متينة وتطوير قدراته ومهاراته في الرياضيات والعلوم والتربية وعلم النفس وطرائق التدريس العامة والخاصة بما يمكنه من أداء رسالته في تعليم وتربية الأجيال وإعدادهم مواطنين صالحين يسهمون بفاعلية في تقدم مجتمعهم وازدهاره .

٣ . إكساب الطالب - المعلم معارف نظرية وتطبيقية في مواد تخصصه وتعريفه بطرائق التفكير والعمل العلمي فيها ، وكيفية تحقيق التعلم الناجح والمبدع وحل المشكلات التي تواجهه في مجال تخصصه بشكل خاص .

٤ . استيعاب الطالب المعلم أثر الرياضيات والعلوم في تطوير الثقافة العامة والخاصة وتحقيق المنجزات العظيمة للبشرية حاضراً ومستقبلاً وأهميتها للتنمية الاجتماعية والاقتصادية ، وللإنسان والمجتمع ، وتعريفهم بإمكانات وأخطار هذين المجالين بالنسبة لتطور المجتمع ليتمكنوا من تعريف التلاميذ بالاستخدامات المختلفة لمعارف الرياضيات والعلوم في مجالات الحياة المختلفة .

٥ . اكتساب الطالب - المعلم قدرات ومهارات التفكير والعمل العلمي المنظم والهادف وحل المشكلات في الرياضيات والعلوم بشكل خاص ،

١ . شهادة الثانوية العامة أو ما يعادلها بمعدل لا يقل عن ٦٠٪ مصدقة ومعتمدة من وزارة التربية والتعليم في دولة الامارات العربية والممتدة

٢ . اجتياز اختبار الرياضيات Math Proficiency Test (MPT)

٣ . اجتياز اختبار اللغة الانجليزية English Placement Test

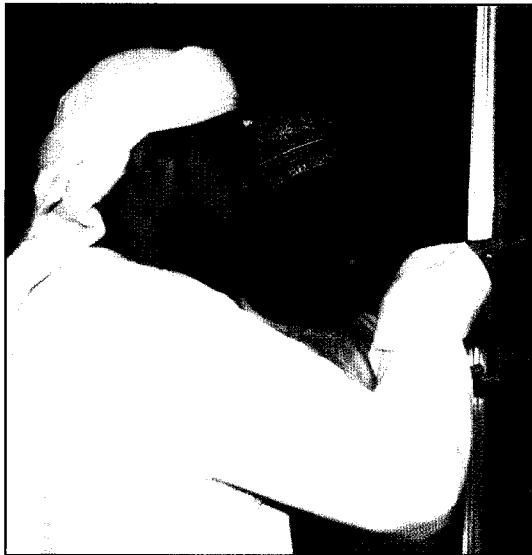
٤ . اجتياز مقابلة شخصية .

عندما يقبل الطالب نهائياً يفتح له ملف في إدارة القبول والتسجيل ويحتوي الملف على جميع الوثائق الخاصة بالطالب .

٠٥٢٢٤٣١	أحاديث الأحكام	الأول	الرابعة
—	اختياري تربية		
٠٥٣٣٤٣٦	النقد الأدبي		
٠٥٣٢٤٣٤	فقه اللغة		
—	اختياري دراسات إسلامية		
—	اختياري لغة عربية		
٠٥١٣٤٤٨	التربية العملية	الثاني	

بنيت الخطة الدراسية على أساس من التوازن الذي يلبي الواقع التعليمي الحالي والمستقبلي في مدارس التعليم العام في المستوى الأساسي في تخصص الدراسات الإسلامية واللغة العربية ، المحقق لأهدافها وذلك للحصول على بكالوريوس أساليب وتقنيات التعليم في هذا التخصص وتبلغ متطلبات التخرج ١٣٢ ساعة معتمدة موزعة كالتالي :

المتطلبات	البيان	عدد الساعات المعتمدة
متطلبات الجامعة	أ. الإجبارية	١٥
	ب. الاختيارية	٩
متطلبات الكلية	أ. الإجبارية	٣٩
	ب. الاختيارية	٣
متطلبات التخصص	الدراسات الإسلامية	
	أ. الإجبارية	٢٧
	ب. الاختيارية	٦
	اللغة العربية	
	أ. الإجبارية	٢٧
	ب. الاختيارية	٦
المجموع		١٣٢



السنة الدراسية	الفصل الدراسي	المساقات الدراسية	أرقام المساقات
الأولى	الأول	الإرشاد الأكاديمي	٠١١١٠٠٠
		الثقافة الإسلامية	٠٥٠٠١١٠
		اللغة العربية	٠٥٠٠١٢٠
		علم النفس العام	٠٥٠٠١٣٠
		أساسيات تقنية المعلومات	٣١٠١٠٠
	الثاني	اللغة الإنجليزية / ١	٠٦٠٠١٠١
		الإحصاء	٠١٣٠١٣٠
		أصول تربية	٠٥١١١٠٦
		مجتمع الإمارات	٠٥١٤١٤٠
		علوم القرآن وأصول التلاوة	٠٥٢١١٠٢
الثانية	الأول	المدخل إلى دراسة الشريعة الإسلامية	٠٥٢٢١٠٤
		اختياري جامعة	—
		بناء المناهج وتطويرها	٠٥١٢٢١٨
		علم نفس النمو	٠٥١٤٢٠٩
		فقه العبادات	٠٥٢٢٢٠١
	الثاني	السيرة النبوية	٠٥٢٢٢١٢
		النحو (١)	٠٥٣١٢٠٣
		الأدب الإسلامي والأموي	٠٥٣٢٢٠٥
		طرائق التدريس العامة	٠٥١٣٢٠٧
		علم النفس التربوي	٠٥١٤٢١٢
الثالثة	الأول	الصرف	٠٥٣٢٢١٤
		فقه الأحوال الشخصية	٠٥٢٣٣٢٢
		النحو (٢)	٠٥٣١٣٢٧
		البلاغة (١)	٠٥٣٣٢١٦
		طرائق تدريس التربية الإسلامية	٠٥١٢٣٢٩
	الثاني	العقيدة الإسلامية	٠٥٢٤٣٢٥
		الأدب العربي الحديث	٠٥٣٤٣٢٤
		تكنولوجيا التعليم	٠٥١٤٣٢٨
		التفسير التحليلي	٠٥٢١٤٣٢
		اختياري لغة عربية	—
الرابعة	الثاني	طرائق تدريس اللغة العربية	٠٥١٣٤٣٩
		مناهج البحث العلمي	٠٥١٤٣٣٠
		التقويم التربوي	٠٥١٣٣٢٦
	الثالث	النحو (٣)	٠٥٣١٤٣٥
		أصول وأساليب الدعوة الإسلامية	٠٥٢٥٤٣٣
		اختياري دراسات إسلامية	—

اسم المساق	رقم المساق	عدد الساعات	المتطلب السابق
١- علوم القرآن وأصول التلاوة	٠٥٢١١٠٢	٣ (٢+٣)	-
٢- التفسير التحليلي	٠٥٢١٤٣٢	٣	٠٥٢١١٠٢
٣- المدخل لدراسة الشريعة الإسلامية	٠٥٢٢١٠٤	٣	-
٤- فقه العبادات	٠٥٢٢٢٠١	٣	٠٥٢٢١٠٤
٥- السيرة النبوية	٠٥٢٢٢١٢	٣	-
٦- أحاديث الأحكام	٠٥٢٢٤٣١	٣	٠٥٢٢٢٠١ + إنجاز ٩٠ ساعة معتمدة
٧- فقه الأحوال الشخصية	٠٥٢٣٣٢٢	٣	٠٥٢٢٢٠١ + إنجاز ٦٦ ساعة معتمدة
٨- العقيدة الإسلامية	٠٥٢٤٣٢٥	٣	إنجاز ٦٦ ساعة معتمدة
٩- أصول وأساليب الدعوة الإسلامية	٠٥٢٥٤٣٣	٣	إنجاز ٩٠ ساعة معتمدة
١٠- النحو (١)	٠٥٣١٢٠٣	٣	-
١١- النحو (٢)	٠٥٣١٣٢٧	٣	٠٥٣١٢٠٣
١٢- النحو (٣)	٠٥٣١٤٣٥	٣	٠٥٣١٣٢٧
١٣- الأدب الإسلامي والأموي	٠٥٣٢٢٠٥	٣	-
١٤- الصرف	٠٥٣٢٢١٤	٣	٠٥٣١٢٠٣
١٥- فقه اللغة	٠٥٣٢٤٣٤	٣	٠٥٣٢٢١٤
١٦- البلاغة (١)	٠٥٣٣٢١٦	٣	-
١٧- النقد الأدبي	٠٥٣٣٤٣٦	٣	٠٥٣٤٣٢٤
١٨- الأدب العربي الحديث	٠٥٣٤٣٢٤	٣	٠٥٣٢٢٠٥

اسم المساق	رقم المساق	عدد الساعات	المتطلب السابق
١- أصول الفقه الإسلامي	٠٥٢٣٣٤٣	٣	٠٥٢٢٢٠١ + إنجاز ٧٥ ساعة معتمدة
٢- علوم الحديث وتدوينه	٠٥٢٣٣٤٤	٣	إنجاز ٦٦ ساعة معتمدة
٣- فقه المعاملات	٠٥٢٣٤٤٥	٣	٠٥٢٢٢٠١
٤- فقه السيرة (عصر الخلفاء الراشدين)	٠٥٢٢٤٤٦	٣	٠٥٢٢٢١٢

اسم المساق	رقم المساق	عدد الساعات	المتطلب السابق
١- البلاغة (٢) (تاريخ البلاغة وإعجاز القرآن)	٠٥٣٣٣٤٨	٣	٠٥٣٣٢١٦
٢- علم البديع والعروض	٠٥٣٣٣٥٢	٣	إنجاز ٦٦ ساعة معتمدة
٣- الأدب العباسي	٠٥٣٤٤٥١	٣	٠٥٣٢٢٠٥
٤- الأدب الجاهلي	٠٥٣٤٤٥٤	٣	إنجاز ٦٦ ساعة معتمدة

اسم المساق	رقم المساق	عدد الساعات	المتطلب السابق ورقمه
١- أصول التربية	٠٥١١١٠٦	٣	-
٢- بناء المناهج وتطويرها	٠٥١٢٢١٨	٣	-
٣- طرائق التدريس العامة	٠٥١٣٢٠٧	٣	٠٥١٢٢١٨
٤- طرائق تدريس التربية الإسلامية	٠٥١٢٣٢٩	٣	٠٥١٣٢٠٧
٥- طرائق تدريس اللغة العربية	٠٥١٣٤٣٩	٣	٠٥١٣٢٠٧
٦- التقويم التربوي	٠٥١٣٣٢٦	٣	٠٥١٢٢١٨
٧- مجتمع الإمارات	٠٥١٤١٤٠	٣	-
٨- علم نفس النمو	٠٥١٤٢٠٩	٣	٠٥٠٠١٣٠
٩- علم النفس التربوي	٠٥١٤٢١٢	٣	٠٥١٤٢٠٩
١٠- تكنولوجيا التعليم	٠٥١٤٣٢٨	٣	٠٥١٢٢١٨
١١- التربية العملية	٠٥١٣٤٤٨	٩	٠٥١٣٤٣٩ + ٠٥١٢٣٢٩ + إنجاز ١٠٢ ساعة

اسم المساق	رقم المساق	عدد الساعات	المتطلب السابق
١- مهنة التعليم وأدوار المعلم	٠٥١١٣٣٨	٣	إنجاز ٦٠ ساعة معتمدة
٢- أدب الأطفال	٠٥١١٤٤٢	٣	إنجاز ٦٠ ساعة معتمدة
٣- التربية ومشكلات المجتمع	٠٥١٤٣٣٩	٣	إنجاز ٦٠ ساعة معتمدة

اسم المساق	رقم المساق	عدد الساعات	المتطلب السابق ورقمه
١- الإحصاء	٠١٣٠١٣٠	٣ (٢+٢)	-
٢- أساسيات تقنية المعلومات	٣١٠١٠٠	٣ (٢+٢)	-
٣- الثقافة الإسلامية	٠٥٠٠١١٠	٣ (١+٢)	-
٤- اللغة العربية	٠٥٠٠١٢٠	٣	-
٥- اللغة الإنجليزية / ١	٠٦٠٠١٠١	٣	-

اسم المساق	رقم المساق	عدد الساعات	المتطلب السابق ورقمه	ملاحظات
١- الريادة العلمية وبراءة الاختراع	٠١٥٠١٥٠	٣	-	اختياري
٢- تاريخ العلوم عند المسلمين	٠١٥٠١٥١	٣	-	اختياري
٣- علم النفس العام	٠٥٠٠١٣٠	٣	-	إلزامي
٤- مناهج البحث العلمي	٠٥١٤٣٣٠	٣	انجاز ٦٠ ساعة	إلزامي
٥- الرياضيات / ١	٠٥٤١١٠١	٣ (٢+٣)	-	اختياري
٦- اللغة الإنجليزية / ٢	٠٦٠٠١٠٢	٣	٠٦٠٠١٠١	اختياري
٧- البيئة والمياه والطاقة	٧٠٠١٠٠	٣	-	اختياري

الإسلامية.

٦. أن يطور الطالب المعلم قدراته ومهاراته في تعلم اللغة العربية والعلوم الشرعية وتعليمها مستفيداً من المعارف العامة في التربية وعلم النفس وطرائق التدريس العامة والخاصة لأداء رسالته في التعلم والتعليم والتربية من أجل إعداد جيل صالح مؤمن يسهم في بناء المجتمع الصغير والكبير في دولة الإمارات العربية المتحدة والوطن العربي والإسلامي.

٧. أن يكتسب الطالب المعلم مهارات استيعاب اللغة العربية وتعليمها (الاستماع والتحدث والكتابة) وتعليمها بأسلوب تكاملي.

٨. أن يكتسب الطالب المعلم مهارات تطوير اللغة العربية وتنميتها وتسهيل تعلمها للنشء مستفيداً من الوسائل التقليدية والحديثة، السمعية والبصرية، والبيئة الافتراضية.

٩. تطوير قدرة الطالب المعلم على البحث العلمي الجاد في مختلف المجالات: المعارف العامة، والعلوم الشرعية واللغة العربية خاصة.

١- الشهادة الثانوية العامة أو ما يعادلها بمعدل لا يقل عن ٦٠٪ مصدقة من وزارة التربية والتعليم في دولة الإمارات العربية المتحدة.

٢- اجتياز اختبار في اللغة الإنجليزية

٣- اجتياز المقابلة الشخصية

تسعى كلية التربية والعلوم الأساسية إلى إعداد معلمين مؤهلين، قادرين على أداء مهامهم التربوية لتدريس اللغة العربية والدراسات الإسلامية، بما يحقق أهداف التربية والتعليم الآتية المستمدة من فلسفة شبكة جامعة عجمان للعلوم والتكنولوجيا ورؤيتها التعليمية.

١. إعداد معلم سوي متمسك بعقيدته الإسلامية مؤمن بها، منتم إلى أمته العربية والإسلامية ناهض لخدمتها وحمايتها، مبرز لدورها الحضاري معترّز بهذا الانتماء عقيدة ولغة وتاريخاً وثقافة وقيماً علياً، مستفيد من تراثها وسماتها وخصائصها الإنسانية.

٢. أن يوسع الطالب المعلم ثقافته العامة ومعارفه الأساسية لتساعد على تكوين شخصيته، شخصية المربي القدوة، وينمي الشعور باحترام اللغة العربية وتقديرها لأن الدين واللغة هما هوية الأمة.

٣. أن يتزود الطالب بالمعارف الشرعية الأساسية لينتفع بها وتنعكس على سلوكه ليكون القدوة الصالحة في الحياة.

٤. أن يلم الطالب المعلم بالوسائل العلمية والتقنية التي تجعله يبني شخصية مسلمة قادرة على استيعاب المفاهيم الصحيحة للإسلام وتطبيقها سلوكاً وعبادة.

٥. أن يدرك الطالب المعلم عظم الأمانة فيغرس في عقول النشء مبادئ الإسلام وقيمه وأخلاقه، ومزايا اللغة العربية بوصفها لغة الحضارة



التخصصات

- ١ - بكالوريوس أساليب وتقنيات التعليم تخصص إعداد معلم مادة (في اللغة العربية و الدراسات الإسلامية).
- ٢ - بكالوريوس أساليب وتقنيات التعليم تخصص إعداد معلم مادة (في الرياضيات والعلوم).
- ٣ - بكالوريوس تربية في تدريس اللغة الإنجليزية كلفة أجنبية.
- ٤ - بكالوريوس في تقنيات التعليم.

- ١- الشهادة الثانوية العامة أو ما يعادلها بمعدل لا يقل عن ٦٠٪ مصدقة من وزارة التربية والتعليم في دولة الإمارات العربية المتحدة .
- ٢- اجتياز اختبار في اللغة الإنجليزية
- ٣- اجتياز المقابلة الشخصية



تمنح الكلية درجة بكالوريوس تربية في التخصصات الأربعة بعد أن ينجز الطالب بنجاح ١٣٢ ساعة معتمدة موزعة كالآتي :

متطلبات الجامعة	٢٤ ساعة معتمدة
متطلبات الكلية	٤٢ ساعة معتمدة
متطلبات التخصص	٦٦ ساعة معتمدة

وساعات الدراسة موضحة في الجدول الآتي :

نوع المتطلب	عدد الساعات المعتمدة	البيان
متطلبات الجامعة	١٥	(أ) الإلزامية
	٩	(ب) الاختيارية
متطلبات الكلية	٣٩	(أ) الإلزامية
	٣	(ب) الاختيارية
متطلبات التخصص	٥٤	(أ) الإلزامية
	١٢	(ب) الاختيارية
المجموع	١٣٢	

ولطبيعة تخصصي بكالوريوس تربية في تدريس اللغة الإنجليزية كلغة أجنبية وبكالوريوس تربية في تقنيات التعليم فإن هناك بعض التغيير في متطلبات الكلية ومتطلبات التخصص بما يناسب خصوصيتهما .



١. ١٥٪ درجة السعي الأول
٢. ٢٠٪ درجة منتصف الفصل
٣. ١٥٪ درجة السعي الثاني
٤. ٥٠٪ درجة امتحان نهاية الفصل

علماً أن هذا التوزيع يشمل المواد التربوية والمواد التي لا تحتوي على الجزء العملي ، أما التوزيع الخاص بالمواد التي تحتوي على أجزاء عملية فهو كالآتي :

- ١٠٪ درجة السعي الأول
- ١٥٪ درجة منتصف الفصل
- ١٠٪ درجة السعي الثاني
- ١٥٪ درجة العملي
- ٤٠٪ امتحان نظري بنهاية الفصل و ١٠٪ عملي فيصبح المجموع لنهاية الفصل ٥٠٪

تعد كلية التربية والعلوم الأساسية معلمين من أجل تحقيق رؤية الجامعة التي تتمثل في إعداد ذلك المعلم المؤمن بعقيدته الإسلامية وبقضاياها، المتسلح بعلم غزير ومعرفة واسعة ولديه من المهارات ما يمكنه من استخدام أحدث التقنيات التعليمية واستخدام مصادر التعلم وتطبيقها لخدمة أهدافه التربوية.

إن معلم اليوم يعد من أجل خدمة أجيال الغد الآتي لذا تعكس كلية التربية والعلوم الأساسية ذلك في خطط دقيقة مستوحاة من رؤية ثاقبة لفلسفة ذات منظور عقدي وإنساني وهي تربط بين ماضٍ تليد وحاضر بكل تحدياته ومستقبل مأمول بكل تطلعاته وتوقعاته، في عالم عولمي لا تكون فيه الغلبة إلا للأقوياء المتسلحين بالعلم والمعرفة على قاعدة من عقيدتنا الإسلامية السمحة وبشكل متوائم متناغم يحقق الآمال الطيبة بإذن الله تعالى .

١ - إعداد معلم الصف لمرحلتى التعليم الابتدائي والإعدادي للمواد الأساسية (اللغة العربية، الدراسات الإسلامية، الرياضيات، العلوم، اللغة الإنجليزية).

٢ - إعداد المتخصص في تقنيات التعليم القادر على مساعدة المعلم والمدرّب في تعزيز مواقفه التعليمية والتعلمية.

٣ - تزويد المتعلم بالمعرفة والخبرة في استخدام لغة عربية سليمة في عمله المستقبلي مع الاهتمام المناسب باللغات الأجنبية وبخاصة الإنجليزية.

٤ - تزويد المتعلم بثقافة إسلامية كافية تساعد في توجيه أبنائه .

٥ - إبراز أهمية الحضارة الإسلامية والعربية ودورها في مجالي العلوم والتكنولوجيا.

٦ - تزويد المتعلم بالمعرفة النفسية والاجتماعية حتى يستطيع رعاية أبنائه الأطفال .

٧ - تزويد المتعلم بالمعرفة في أصول بناء المناهج وتطويرها واستخدام أفضل السبل للارتقاء بمستوى المواقف التعليمية والتعلمية.

٨ - إبراز أهمية العلوم البحتة بمختلف مجالاتها في تطوير التكنولوجيا التي تسعى لحل الكثير من المشكلات التربوية.

٩ - تزويد المتعلم بأحدث تقنيات التعليم وأساليب التدريس الحديثة مما يجعله قادراً على حل بعض مشكلات التعليم .

١٠ - الاهتمام بإجراء البحوث التربوية الميدانية التي تساعد في الارتقاء بمستوى العملية التربوية.

١١ - السعي لتعزيز الصلة مع المؤسسات التربوية الحكومية والخاصة وتقديم خدمات أكاديمية وفنية.

١٢ - المشاركة في محاضرات ودورات تدريبية وندوات ومؤتمرات محلية وعربية وعالمية.



انطلاقاً من رؤية متميزة ثاقبة، تبنت شبكة جامعة عجمان للعلوم والتكنولوجيا فلسفة خاصة، تترجمها كلية التربية والعلوم الأساسية من خلال الاهتمام بتربية الإنسان وتعليمه وتوجيهه وجدانا وفكرا وخبرة مستفيدة من ثورة المعلومات والاتصالات، وكاسرة الحواجز بين شبكة الجامعة ممثلة بأساتذتها وطلبتها، وسوق العمل والمجتمع، وقد اضطلعت كلية التربية والعلوم الأساسية بمهمة العناية بهذا الإنسان منذ طفولته، فهي تعد له المعلم القدوة سلوكاً وأخلاقاً وعلماً، ليضع نصب عينيه إصلاح التعليم والإصلاح به ليستبين أثره في طلابه وفي المجتمع عامة، كما تعد وتسهم في إعداد علماء المستقبل الذين بهم تنهض المجتمعات وتتطور. واعتمدت الكلية لتحقيق أهدافها تبني مناهج تأخذ بعين الاعتبار الاستفادة من التجارب السابقة، ومستلزمة في ذلك مبدأ الانتقاء المبني على معايير الجودة، ومستخدمة الأساليب التدريسية الحديثة، معززة بالتقنيات التربوية بشقيها التقليدي والافتراضي، مهينة بذلك بيئة الإبداع التربوي، وماضية قدماً في الطموحات والتطلعات المستقبلية، فهي تخرج حالياً في ظل تلك الرؤية، معلمين مؤهلين للتدريس في الصفوف العليا من المرحلة الابتدائية والمرحلة الإعدادية في التخصصات الآتية :

١ - بكالوريوس أساليب وتقنيات التعليم تخصص إعداد معلم مادة (في اللغة العربية والدراسات الإسلامية).

٢ - بكالوريوس أساليب وتقنيات التعليم تخصص إعداد معلم مادة (في الرياضيات والعلوم).

٣ - بكالوريوس تربية في تدريس اللغة الإنجليزية كلغة أجنبية.

كما تعد الكلية تربويين في تخصص:

٤ - بكالوريوس في تقنيات التعليم.

وتقوم الكلية في تخصصاتها المختلفة برصد شقيقاتها الكليات الأخرى وتغطية مساقات متعددة من متطلبات الجامعة إضافة إلى مساقات العلوم الأساسية.

أما الخطط الدراسية للكلية فهي خطط معاصرة تم اختيار مساقاتها بعناية تامة لتحقيق أهداف برامجها المختلفة ضمن نظام الساعات المعتمدة، وتعزز مساقات كثيرة بالتجارب والتطبيقات المختبرية، بالإضافة إلى مساق التربية العملية الذي يحتل عدداً من الساعات يساوي تسع ساعات وبممارسة فعلية فصلية تقدر بنحو ٤٠٠ ساعة يتم تطبيقها في المدارس المختلفة.



٧٠	مقدمة
٧١	رسالة الكلية
٧١	أهداف الكلية
٧٢	متطلبات التخرج
٧٣	التخصصات والدرجات العلمية
	١- بكالوريوس أساليب وتقنيات التعليم تخصص إعداد معلم مادة
٧٤	(في اللغة العربية و الدراسات الإسلامية)
	٢- بكالوريوس أساليب وتقنيات التعليم تخصص إعداد معلم مادة
٨٠	(في الرياضيات والعلوم)
٨٥	توصيف المساقات
٨٩	أعضاء هيئة التدريس
١١٣	بكالوريوس في تقنيات التعليم
١١٨	بكالوريوس تربية في تعليم اللغة الإنجليزية كلغة أجنبية



كلية التربية والعلوم الأساسية

كلية المعلومات والإعلام والعلاقات العامة

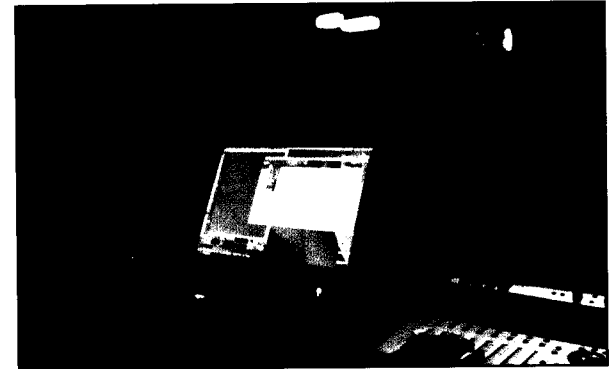
مقدمة:

شهد العالم خلال العقود القليلة الماضية تطورات نوعية وكبيرة هائلة في أساليب ومضامين ومستويات وتقنيات الاتصال مما حول الكرة الأرضية إلى قرية كونية اختزلت فيها المسافات وزالت فيها عوائق الزمان والمكان. فبفضل منظومات الأقمار الاصطناعية وشبكات الألياف البصرية والاتصالات السلكية واللاسلكية وشبكات المعلومات العالمية Internet، أصبح تدفق المعلومات أكثر سرعة وتفاعلية وديناميكية مما انعكس بشكل هائل على العلاقات الداخلية والبيئية للمجتمعات بقطاعاتها السياسية والاقتصادية والتعليمية والإعلامية المختلفة.

كان من نتائج هذه التحولات بروز مجتمع المعلومات الذي يستند إلى اقتصاديات عمادها التعامل مع المعلومة في شكلها الفني والفكري. وفي ضوء التقنيات التي ولدتها ثورة المعلومات في مناحي الحياة المختلفة، فقد بات التعامل مع معطيات العصر الجديد يتطلب مهارات محددة وذات مستوى عال من التطور. ويمكن القول بأن هذه المهارات تشمل إتقاناً كاملاً للغة الإنجليزية كتابة وقراءة وتحدثاً وسماعاً. وتعاملنا بناءً وإبداعاً مع تكنولوجيا الاتصال الحديثة التي تمثل الوسائط المتعددة أبرز مظاهرها. وتفاعلاً عميقاً مع خطاب الحقب المقبلة بما يحمله من فكر جديد نستشرف باستيعابه آفاق المستقبل. ففوة الأمم لن تقاس بحجم سكانها أو ثروتها المادية، بل بمدى تحكمها في قنوات ومصادر المعرفة والمعلومات من حيث المضامين والوسائل. ولا يمكن لأمة ما أن تحقق الهدف إلا من خلال تفاعلها مع روح العصر الحالي وذلك بشكل انتقائي تمكنها من اختيار ما يناسبها ونبت ما يتعارض مع قيمها وتوجهاتها. من هذا المنطلق تمنح كلية المعلومات والإعلام والعلاقات العامة شهادة البكالوريوس في الإعلام والعلاقات العامة (١٣٢ ساعة معتمدة) على مدار أربع سنوات. وتحدد رسالة الكلية وأهدافها في الآتي:

رسالة الكلية

انطلاقاً مما سبق، فقد بات من الضروري إعداد أجيال مؤهلة من القائمين بالاتصال في سياقه الجماهيري والشخصي والمؤسسي قادرين على استيعاب وتكييف ما يحمله عصر المعلومات من فكر وأدوات تخدم مصالح المجتمع. ويأتي استحداث كلية المعلومات والإعلام والعلاقات العامة في شبكة جامعة



عجمان للعلوم والتكنولوجيا، بمثابة خطوة إضافية نحو تحقيق ذلك الهدف، إذ تسعى الكلية إلى نشر الثقافة الإعلامية كما تهدف إلى تطوير هذا الحقل الأكاديمي وجعله في خدمة التنمية الوطنية في مجتمع الإمارات بصفة خاصة.

الاهداف

يسعى البرنامج المفتوح في الإعلام والعلاقات العامة إلى إعداد الأطر البشرية القادرة على التعامل الإيجابي والإبداعي مع معطيات عصر المعلومات والاتصال الفعال بما يخدم الأهداف السامية للمجتمع، وذلك على النحو الآتي:

- إعداد كوادر اتصالية قادرة على العمل في كافة المؤسسات العامة والخاصة، الإعلامية منها (مؤسسات الصحافة والطباعة والنشر ووكالات الأنباء الإخبارية والمصورة) وغير الإعلامية (إدارات الإعلام والاتصال في شتى المؤسسات العامة والخاصة).

- تسعى الخطة كذلك إلى تزويد الطالب بمجموعة من المعارف النظرية، والمهارات العملية تؤهله للعمل كمندوب ومحرر، ومترجم ومخرج، بالإضافة إلى مختلف المهام الأخرى الفنية والإدارية

- إعداد متخصصين قادرين على العمل في مؤسسات الراديو والتلفزيون، ومؤسسات الإنتاج البرامجي، ووكالات الأنباء الإقليمية، تؤهله للعمل كمعد برامج ومصور ومخرج ومحرر وأخبار ومنتج للبرامج الإذاعية بالإضافة إلى مختلف المهام الأخرى الفنية والإدارية في مؤسسات الراديو والتلفزيون.

- إعداد متخصصين قادرين على العمل في إدارات ومؤسسات العلاقات العامة بمختلف أنواعها وأشكالها، وفي إدارات الإعلام بهذه المؤسسات لتلبية احتياجات المؤسسات في تنظيم الحملات الإعلامية والأنشطة وتنظيم العلاقة مع وسائل الإعلام، وتعزيز قنوات الاتصال الداخلية والخارجية للمؤسسات، وذلك من خلال مجموعة من المساقات المتخصصة والمساقات البيئية من حقول أخرى ذات صلة. وفي ضوء الأهداف السابقة فإن البرنامج الدراسي في الإعلام والعلاقات العامة يستهدف تكوين معارف ومهارات الطلاب ودعم أنشطتهم في المجالات الآتية:

- دراسة الاتصال كعملية نفسية واجتماعية وتأکید دور وسائل الإعلام في المجتمع المعاصر خاصة ما يتعلق منها بمستويات وقنوات الاتصال وتأثيراته.
- دراسة وسائط الاتصال الجماهيري المعاصر دراسة نظرية وفنية تتيح إتقان المهارات الأساسية للعمل في مجالات الصحافة المطبوعة والإلكترونية والراديو والتلفزيون والعلاقات العامة.

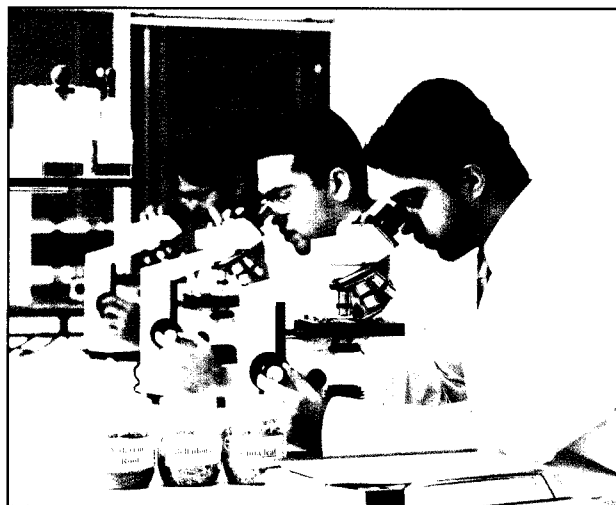
- دراسة أساليب الكتابة والترجمة الصحفية والإذاعية والتلفزيونية وتلك الخاصة بالعلاقات العامة والإعلان باللغتين العربية والإنجليزية.

- إتقان مهارات استخدام أجهزة الإنتاج الصحفي والإذاعي والتلفزيوني.

- إتقان استخدام أجهزة وبرامج الوسائط المتعددة والنشر المكتبي.

- إتقان إعداد البحوث التطبيقية في الاتصال الجماهيري والعلاقات العامة.

وتجدر الإشارة في النهاية، إلى أن كلية المعلومات والإعلام والعلاقات العامة تعمل جاهدة على إيجاد تخصصات جديدة بالإضافة إلى بلورة دبلوم دراسات عليا في الاتصال.



دأبت كلية الصيدلة والعلوم الصحية منذ تأسيسها عام ١٩٩٧/٩٦ على تحقيق الجودة في الرعاية الصحية وذلك بتخريج صيادلة متميزين وقادرين على تقديم الرعاية الصيدلانية في صيدليات المجتمع والمستشفيات وبحوث الأدوية وكذلك تقديم المساعدة والرعاية الصحية للمجتمع وللمرضى .

وتماشى تلك الرسالة مع رسالة شبكة جامعة عجمان للعلوم والتكنولوجيا والتي تهدف إلى رفد المجتمع بخريجين قادرين على التعامل مع التقنيات الحديثة وتطبيقاتها وتقديم أليات حديثة للتعليم والتعلم متواءمة مع عادات المجتمع وقيمه ومتطلباته بالإضافة إلى كسر الحاجز بين المجتمع الأكاديمي المجتمع الفعاليات حيث تسهم الكلية في تحقيق معايير التدريس: البحوث والتدريب والاستشارات والممارسة العملية .

١. إعداد الطلبة ليكونوا صيادلة متميزين قادرين على العمل في المستشفيات وصيدليات المجتمع ومجال الصناعات الدوائية .
 ٢. تقديم برامج عالية الجودة ومعترف بها .
 ٣. تقديم برامج تضع في الاعتبار التطبيقات السريرية للعلوم الصيدلانية .
 ٤. التأكيد على أهمية اكتساب الطالب القابلية للتعليم المستمر كجزء من الخطط الدراسية .
 ٥. إقامة علاقات متميزة مع الجهات ذات العلاقة داخل الدولة وخارجها .
 ٦. المساهمة في التعليم المستمر للعاملين في مجال الصيدلة .
 ٧. العمل على إجراء البحوث التطبيقية في مجال العلوم والممارسات الصيدلانية .
- تمنح الكلية درجة البكالوريوس في الصيدلة والذي يشتمل على ١٥٠ ساعة معتمدة تستغرق ٤-٥ سنوات. تقبل الكلية الطلبة الحاصلين على شهادة الثانوية العامة (القسم العلمي) أو ما يعادلها بمعدل ٧٠٪ على الأقل .

٧. تمكينهم من السيطرة على استخدام الإنترنت للاتصال في اللغتين الإنجليزية والعربية.

ومن أجل تحقيق هذه الأهداف فقد وضعت الجامعة في متناول طلبتها مصادر التعلم ومختبرات الحاسب الآلي والوسائط المتعددة، ولا تألو الجامعة جهداً وبصورة مكثفة لتعزيز علاقاتها وروابطها مع المؤسسات ذات العلاقة بحقل الترجمة والاتصال عالمياً وذلك من أجل توفير بيئة مناسبة للطلبة لتمكينهم من متابعة التطورات الحديثة وكذلك من أجل كسر الحاجز بين الوسط الأكاديمي وعالم الأعمال كمبدأ تبنته جامعة عجمان للعلوم والتكنولوجيا.

تقدم كلية اللغات الأجنبية والترجمة برنامجين لنيل درجة البكالوريوس في التخصصين الآتين:

١. اللغة الإنجليزية والترجمة.

٢. الاتصال والترجمة.

ولغرض الحصول على درجة البكالوريوس في هذين التخصصين فإن على الطلبة إنجاز ١٣٢ ساعة معتمدة (أربع سنوات دراسية).

لكلية اللغات الأجنبية والترجمة بما تطرحه من تخصصات دور متفرد في مجتمعنا - دور يفصل الجذور ويطور الواقع ويحمي الأصالة والحضارة للمجتمعات - ويتأكد هذا الدور وتشتد الحاجة إليه إذا كان الهدف هو الإنسان - القيمة الاجتماعية العليا في هذه الحياة - ولا شك أن بناء الإنسان هو محور التنمية الحقيقية ولذا تنطلق أهداف كلية اللغات الأجنبية والترجمة لتحقيق أهداف وفلسفة الجامعة. إن الكلية بأقسامها المختلفة تسعى جاهدة بما توافر لديها من خبرات وكفاءات من أعضاء هيئة التدريس إلى تحقيق ما تصبو إليه شبكة جامعة عجمان للعلوم والتكنولوجيا من أهداف وغايات. وهي في كل هذا تتبنى رفعة الجامعة وطموحاتها.

بما أن العالم يتجه مسرعاً نحو التركيز على إنتاج المعلومات وتخزينها ومعالجتها، فقد أصبح من المحتم على العالم العربي عموماً وعلى دولة الإمارات العربية المتحدة خصوصاً أن تتماشى مع هذه الميول العالمية وذلك بإعداد وتهيئة الأجيال القادمة لتكون قادرة على الاضطلاع بالمجالات الفكرية والتقنية والعلمية للعهد الجديد وتعديل مثل هذه المعلومات لتلبية احتياجات وأولويات المجتمع.

إن تأسيس كلية اللغات الأجنبية والترجمة أصبح استجابة إيجابية لحاجات عصرنا الحاضر وذلك من أجل الاندماج والمساهمة في منجزاتها كمنهجين للمعرفة وليس مجرد مستهلكين لها.

١. إطلاع الطلبة على الأنواع المختلفة للاتصال في مجالات الصحافة، الراديو، التلفزيون والعلاقات العامة مع التركيز على ملامح كل واحدة منها.
٢. تعريفهم بالمفاهيم الأساسية والتقنيات وطرق الترجمة بصورة عامة وترجمة الاتصال بصورة خاصة.
٣. تمكينهم من الاضطلاع بمجالات الصحافة والراديو والتلفزيون والعلاقات العامة وأساليب الكتابة في كل من اللغتين العربية والإنجليزية.
٤. إثراء وتعزيز كفاءتهم في الترجمة من العربية إلى الإنجليزية وبالعكس.
٥. مساعدتهم على السيطرة على تقنيات الاتصال الشخصي - وجها لوجه في كل من اللغتين الإنجليزية والعربية.
٦. تمكينهم من السيطرة على استخدام الوسائط المتعددة في ترجمة الاتصال والإلقاء الإذاعي والصحافة والتحرير الإذاعي والتلفزيوني إضافة إلى إنتاج وتقديم مواد الاتصال المختلفة.



في ظل التطور الكبير في الأجهزة الطبية الحديثة ، أصبحت الحاجة ماسة لمهندسين اكفاء للتعامل مع هذه الأجهزة وتطويرها. تخصص هندسة المعدات الطبية يعني بتدريس العلوم الهندسية وتطبيقاتها الطبية سواء كان ذلك في التشخيص أو العلاج. كما يهتم المنهج بأسس وصيانة وتركيب هذه المعدات. الساعات المعتمدة لهذا التخصص ١٦٥ ساعة موزعة على النحو الآتي :

٢٤ ساعة معتمدة	مساقات متطلبات الجامعة
٢١ ساعة معتمدة	مساقات في العلوم الأساسية
٥٧ ساعة معتمدة	مساقات في الإلكترونيات الأساسية
٣٣ ساعة معتمدة	مساقات متقدمة في هندسة المعدات الطبية
١٨ ساعة معتمدة	مساقات تخصصية اختيارية
٨ ساعات معتمدة	مشاريع التخرج
٤ ساعات معتمدة	التدريب الصناعي

في هذا التخصص يدرس الطلبة الأسس الهندسية لتنفيذ المشاريع المعمارية وخواص مواد البناء والانشاء والنواحي الجمالية في العمارة. إضافة لذلك يدرس الطلبة تاريخ تطور العمارة والمدارس العصرية في البناء. كما يدرس استخدام برامج الحاسب الآلي في تصميم المباني. الساعات المعتمدة لهذا التخصص ١٦٨ ساعة موزعة على النحو الآتي:

٢٤ ساعة معتمدة	مساقات متطلبات الجامعة
١٢ ساعة معتمدة	مساقات في العلوم الأساسية
٩ ساعات معتمدة	مساقات في علوم الهندسة الأساسية
٩٩ ساعة معتمدة	مساقات في الهندسة المعمارية
١٢ ساعة معتمدة	مساقات تخصصية اختيارية
٨ ساعات معتمدة	مشاريع التخرج
٤ ساعات معتمدة	التدريب الصناعي



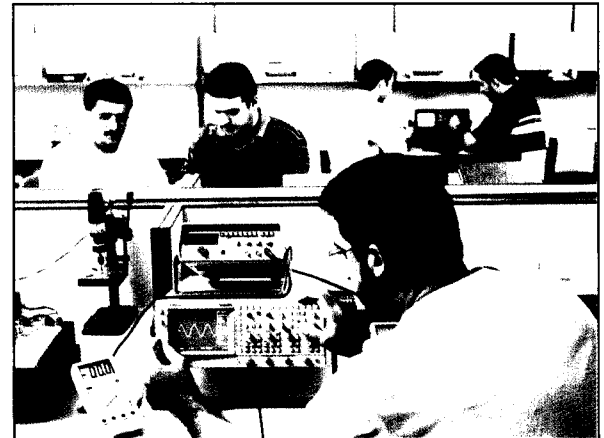
نظراً لرغبة الطلبة في التخصص في مجال التصميم الداخلي ، قامت الكلية بافتتاح هذا التخصص. في هذا التخصص يدرس الطلبة أسس العمارة الداخلية وفنون التصميم والديكور وتنسيق الألوان إضافة إلى تاريخ تطور التصميم الداخلي والمدارس العصرية، كما يتدرب الطلبة على استخدام برامج الحاسب الآلي في التصميم والديكور.

١٣٤ ساعة موزعة على النحو الآتي :	الساعات المعتمدة لهذا التخصص
٢٤ ساعة معتمدة	مساقات متطلبات الجامعة
٩ ساعات معتمدة	مساقات في علوم الهندسة الأساسية
٨٢ ساعة معتمدة	مساقات في التصميم الداخلي
١٢ ساعة معتمدة	مساقات تخصصية اختيارية
٣ ساعات معتمدة	مشاريع التخرج
٤ ساعات معتمدة	التدريب الصناعي

تعد مهنة الهندسة من المهن التي تطورت عبر العصور مع تطور متطلبات وضروريات حياة الإنسان وطموحه لوسائل توفر عليه الجهد والوقت. والهندسة بمفهومها الحديث هي العلم التطبيقي الذي يتعامل مع التخطيط والتصميم والتشييد والصيانة للأنظمة والمعدات والمنشآت.

تم إنشاء كلية الهندسة تماشياً مع رسالة شبكة جامعة عجمان للعلوم والتكنولوجيا لتقديم دراسة جامعية متميزة في الهندسة وتهيئة بيئة أكاديمية تساعد على البحث العلمي والإبداع. تركز البرامج الدراسية في الكلية على كيفية تطبيق المبادئ الهندسية الأساسية من أجل تطوير وسائل تكنولوجية وطرق هندسية لخدمة المجتمع المحلي والإنسانية جمعاء. كما تسعى البرامج أيضاً إلى تهيئة بيئة أكاديمية تساعد الطلبة على الدراسة المتعمقة في تخصصات هندسية متعددة من أجل الالتحاق بسوق العمل أو مواصلة الدراسة لنيل درجات أكاديمية عليا.

- تم تصميم البرامج الدراسية في كلية الهندسة من أجل تحقيق الأهداف الآتية :
١. تخريج مهندسين أكفاء لديهم الفهم والمعرفة العلمية إضافة إلى متطلبات الممارسة المهنية.
 ٢. إنتاج معرفة علمية عن طريق تشجيع البحث العلمي والإبداع كهدف استراتيجي من أجل التنمية.
 ٣. كسر الحاجز بين سوق العمل والمجتمع الأكاديمي وتلبية متطلبات العمل عن طريق برامج قابلة للتطوير والمواءمة.
 ٤. تشجيع استعمال تكنولوجيا المعلومات في التخصصات الهندسية المختلفة.
 ٥. انتهاج مفهوم شمولي كمرکز للتعليم الهندسي محلياً وعالمياً.
- تنتهج الكلية نظام الساعات المعتمدة، حيث يتوجب استكمال عدد الساعات المقررة بنجاح لكي ينال الطالب شهادة البكالوريوس في التخصصات الآتية:



البرامج الدراسية

لقد أصبحت الحياة العصرية تعتمد وبصورة أساسية على تطبيقات الهندسة الكهربائية سواء كان ذلك على المستوى المنزلي أو الصناعي، لذلك فإن هذا التخصص يهتم بتزويد الطالب بعلوم هندسة الإلكترونيات الأساسية مثل دوائر الترانزستور والدوائر المتكاملة وهندسة التحكم الآلي وتصميم الأجهزة الكهربائية.

الساعات المعتمدة لهذا التخصص ١٦٥ ساعة موزعة على النحو الآتي :	
مساقات متطلبات الجامعة	٢٤ ساعة معتمدة
مساقات في العلوم الأساسية	٢١ ساعة معتمدة
مساقات في الإلكترونيات الأساسية	٥٧ ساعة معتمدة
مساقات متقدمة في الإلكترونيات	٣٣ ساعة معتمدة
مساقات تخصصية اختيارية	١٨ ساعة معتمدة
مشاريع التخرج	٨ ساعات معتمدة
التدريب الصناعي	٤ ساعات معتمدة

البرامج الدراسية

يهتم تخصص الاتصالات بتدريس علوم هندسة الاتصالات المختلفة مثل الاتصالات السلكية واللاسلكية المتمثلة في التلفون والراديو والاتصالات بواسطة الأقمار الصناعية.

الساعات المعتمدة لهذا التخصص ١٦٥ ساعة موزعة على النحو الآتي :	
مساقات متطلبات الجامعة	٢٤ ساعة معتمدة
مساقات في العلوم الأساسية	٢١ ساعة معتمدة
مساقات في الإلكترونيات الأساسية	٥٧ ساعة معتمدة
مساقات متقدمة في الاتصالات	٣٣ ساعة معتمدة
مساقات تخصصية اختيارية	١٨ ساعة معتمدة
مشاريع التخرج	٨ ساعات معتمدة
التدريب الصناعي	٤ ساعات معتمدة

كلية طب الأسنان

الاحياء . الكيمياء . الفيزياء . وأن يجتاز امتحان تحديد مستوى اللغة الإنجليزية والمقابلة الشخصية .

يشترط على الطالب المقبول في كلية طب الأسنان أن يكمل المتطلبات التالية للحصول على شهادة دكتور في جراحة الاسنان D.D.S.

(١) انجاز ١٨٠ ساعة معتمدة بما فيها المتطلبات الجامعية بمعدل تراكمي لا يقل عن (٢) .

(٢) إكمال ساعات التدريب المعتمدة بنجاح لكل مساق .

(٣) تقديم مشروع تخرج Research Project عن بحث علمي يتم

إنجازه في السنة الخامسة تحت إشراف أحد اساتذة الكلية .

لا يسمح للطالب بالانتقال من مرحلة العلوم الأساسية والطبية (الستين الأولى والثانية) إلى المرحلة قبل السريرية إلا إذا اجتاز جميع مساقات مرحلة العلوم الأساسية والطبية بنجاح .

تم إنشاء كلية طب الأسنان في شبكة جامعة عجمان للعلوم والتكنولوجيا في العام الدراسي ١٩٩٧ - ١٩٩٨ وذلك تلبية للحاجة الملحة التي اقتضتها ضرورة وجود مؤسسة أكاديمية في المنطقة لتخريج جيل جديد من أطباء الأسنان مؤهلين لممارسة طب وجراحة الأسنان بشكل يضاوي أرقى الجامعات العالمية .

وقد وضعت الخطة الدراسية للبرنامج بشكل متسلسل ومتجانس استرشاداً باستراتيجية الجامعة وفلسفتها التي تعتمد مبدأ الانتقاء والتكيف للبرامج الدراسية وبما يتناسب مع متطلبات المنطقة .

يتم التدريب السريري للطلبة داخل الكلية وفي المستشفيات والمراكز الصحية المختلفة في سائر تخصصات طب الأسنان . هذا التدريب سوف يمكن الطالب من التعرف على أمراض الفم والأسنان واكتساب الخبرة لتشخيصها ومعالجتها متناسقاً مع الفهم الشمولي للعلاقة بين الطب العام وطب وجراحة الفم والأسنان . ولقد تم بناء الخطة الدراسية للكلية بما يضمن تنمية وتحديث المهارات السريرية للطلبة وإعطائهم خلفية طبية متميزة .

رسالة الكلية

تساهم كلية طب الأسنان في تحقيق رسالة شبكة جامعة عجمان للعلوم والتكنولوجيا بتوفير مناهج دراسية وبحوث في العلوم الأساسية والسريرية بالإضافة إلى تقديم خدمات علاجية عالية المستوى . كما أن كلية طب الأسنان تعمل على تهيئة الخريجين لتقديم خدمات علاجية ضمن ضوابط أخلاقية وقانونية بما يخص طب وجراحة الفم والأسنان .

أهداف الكلية

- ١ . تعليم الطلبة وتأهيلهم وتدريبهم لمواجهة تحديات العصر بما يخص علوم طب الأسنان الحديثة وبثقة عالية .
- ٢ . تخريج أطباء أسنان ملمين بالعلوم الطبية والأساسية التي تؤهلهم للعمل في مجالات علوم طب الأسنان الحديثة .
- ٣ . إيجاد جيل من أطباء الأسنان ذي كفاءة عالية لديه القدرة على تحسين الوضع الصحي في الدولة والمنطقة من خلال نشر الوعي الصحي بما يخص صحة الفم والأسنان ومعالجة الحالات المرضية المتعلقة بأمراض الفم والأسنان .
- ٤ . تهيئة أطباء أسنان لهم القدرة على الانضمام إلى دراسة التخصصات في المجالات المختلفة لعلوم طب وجراحة الفم والأسنان والتخصصات الجديدة الأخرى مثل زراعة الأسنان والعلاج بالليزر .
- تمنح كلية طب الأسنان خريجها درجة دكتور في طب وجراحة الأسنان (D.D.S) من خلال برنامج دراسي وتدريبى معتمد لمدة خمس سنوات ، بتطبيق نظام الساعات المعتمدة .
- ينبغي على المتقدم إلى الكلية أن يكون حاصلاً على شهادة الثانوية العامة (القسم العلمي) أو ما يعادلها بمعدل لا يقل عن ٨٠٪ في مواد الاختصاص وهي



كلية علوم وهندسة الحاسب الآلي

رسالة الكلية

تمنح الكلية درجة البكالوريوس في التخصصات التالية:

١. علوم الحاسب الآلي.
 ٢. هندسة الحاسب الآلي.
 ٣. نظم المعلومات.
- كما تمنح الكلية درجة الدبلوم في تقنية المعلومات.
- وللحصول على درجة البكالوريوس . فإن على الطالب إنجاز (١٣٥) ساعة معتمدة في تخصص علوم الحاسب الآلي . و (١٦٤) ساعة معتمدة في تخصص هندسة الحاسب الآلي . و (١٣٢) ساعة معتمدة في تخصص نظم المعلومات . أما للحصول على درجة الدبلوم في تخصص تقنية المعلومات فعلى الطالب إنجاز (٧٠) ساعة معتمدة .

وللتدريب أهمية خاصة في برامج الكلية ، فله ثقل يعادل (٣) ساعات معتمدة ، حيث ينبغي على الطالب أن يتدرب لمدة (١٢) أسبوعاً في إحدى المؤسسات ذات العلاقة باستخدامات الحاسب الآلي الذي يتفق مع التخصص .

ولكلية علوم وهندسة الحاسب الآلي بما تملكه من مختبرات ومعدات تقنية متطورة في مجال المعلومات ومعالجتها بكفاءات وخبرات أعضاء هيئة التدريس مهمات أخرى داخل الجامعة تتعلق بإعطاء الخبرات وتصميم البرامج المتطورة التي تخدم أهداف الجامعة .

- المساهمة في تحقيق رسالة شبكة الجامعة من حيث الالتزام بتوفير مستوى عال من التدريس والتدريب .
- توفير خريجين في مجال تقنية المعلومات مؤهلين في حقل تصميم الحاسب الآلي والبرمجيات واستخدام الحاسب الآلي في مجالات مبتكرة .
- كسر الحاجز بين المؤسسة الأكاديمية وسوق العمل .
- تأهيل الطلبة للالتحاق بالدراسات العليا في مجالات الحاسب الآلي .
- المساهمة في تنمية مجتمع الامارات والمنطقة في مجال تقنية المعلومات .
- المساهمة في توفير الخبرة من خلال مركز تكنو سفير .

أهداف الكلية

- تزويد الطلبة بالمعلومات والخبرة طبقاً للمعايير العالمية المعدة من قبل الهيئات الدولية المتخصصة ACM و IEEE .
- تدريب وتأهيل الطلبة على التقنيات الحديثة ليكونوا قادرين على مواكبة احتياجات سوق العمل .
- شتجيع البحث والتطوير في حقول علوم وهندسة الحاسب الآلي .
- توضيح النواحي القانونية والأخلاقية المتعلقة باستخدام الحاسب الآلي .
- تخريج طلبة مؤهلين بمهارة الاتصال وقادرين على العمل ضمن فريق .
- تمكين الطلبة من فهم التقنيات المستخدمة في كل مراحل حل المشاكل المتعلقة بتقنية المعلومات .
- توفير الجو المناسب للأساتذة من أجل القيام بمهامهم المتعلقة بالتدريس والبحث ، والتدريب والممارسة والخبر والاستشارات .



كلية إدارة الأعمال

رسالة الكلية

إن خطط كلية إدارة الأعمال وبرامجها تتضمن إعداد الطلبة للحصول على الدرجات العلمية المبينة في التخصصات التالية :

- ١ - بكالوريوس في الإدارة (أربع سنوات)
- ٢ - بكالوريوس في المحاسبة (أربع سنوات)
- ٣ - بكالوريوس في التسويق (أربع سنوات)
- ٤ - بكالوريوس في التمويل (أربع سنوات)
- ٥ - دبلوم في إدارة الأعمال (سنتان)

وللحصول على درجة البكالوريوس في التخصصات الأربعة المذكورة، فإنه على الطالب أن يكمل بنجاح ١٢٢ ساعة معتمدة موزعة بالشكل الآتي :

متطلبات الجامعة	٢٤ ساعة
متطلبات الكلية	٦٦ ساعة
متطلبات التخصص	٤٢ ساعة

وللحصول على درجة الدبلوم في إدارة الأعمال، فإن على الطالب انجاز ٧٢ ساعة معتمدة. ويمكنه استكمال دراسته للحصول على درجة البكالوريوس. وللتدريب في كلية إدارة الأعمال أهمية خاصة، فله وزن يعادل ثلاث ساعات معتمدة.

ويسهم هذا المنهج الديناميكي الذي تتبناه الكلية في المحافظة على مستوى تنافسي عال في السوق ومواجهة متطلبات وتحديات القرن المقبل في مجال الإدارة والمحاسبة والتسويق والتمويل إضافة للمساهمة في تنمية ورفاهية المجتمع من خلال مشاريع البحوث التي تقوم الكلية بتنفيذها.

تلتزم كلية إدارة الأعمال بتحقيق رسالة شبكة الجامعة، التي تروى إلى تحقيق الاحتياجات الأكاديمية لمواطني دولة الإمارات كما هو الحال لبقية الطلبة من الجنسيات الأخرى حول العالم.

لتحقيق ذلك فإن كلية إدارة الأعمال تتبع منهجاً مبنياً على إيجاد الحلول العلمية والتطبيقية لمشاكل المؤسسات وقطاع الأعمال، إضافة إلى التنبؤ باحتياجات المستقبل والتخطيط قصير وطويل الأجل واتخاذ القرارات الفعالة؛ وذلك من خلال منح درجة البكالوريوس في التخصصات الرئيسة الخمسة وهي: الإدارة، المحاسبة، المالية، التسويق إضافة إلى دبلوم الإدارة العامة.

إنطلاقاً من نهج الكلية فإن استراتيجيتها تركز على إعداد خريجها وتزويدهم بحقول المعرفة وطرائق التفكير والتحليل الخلاّق لمواجهة تحديات الأعمال والتحديات الإدارية للقرن الواحد والعشرين.

أهداف الكلية

أولاً: توسيع أفق الطلبة وإطلاعهم على ما يدور في الخارج أو بيئة الأعمال لمواجهة الاحتياجات المهنية للسوق.

ثانياً: تعزيز نهج إداري حديث لتضييق الفجوة بين النظرية والتطبيق.

ثالثاً: العمل على المواءمة بين البيئة الأكاديمية وبيئة الأعمال.

رابعاً: تسليح الخريجين بمعلومات إدارية ومهارات وتنشيط عملية التحامهم ببيئة الأعمال.

خامساً: إعداد الطالب لمتابعة وتحقيق أعلى المستويات العلمية.

يسعى النهج العملي لكلية إدارة الأعمال إلى ما يأتي:

أولاً: تمكين الكلية من أخذ دورها التنافسي في السوق.

ثانياً: مواجهة تحديات القرن الواحد والعشرين على مستوى المهارات الإدارية والسوق.

ثالثاً: المساهمة في تحقيق الرفاه الاجتماعي من خلال أعمال البحث المتعددة.

وبتميز برنامج العمل في كلية إدارة الأعمال بما يأتي:

١ - استخدام اللغة الإنجليزية لغة تدريس.

٢ - استخدام الحاسب الآلي في التدريس والتدريب.

٣ - اتباع مناهج غير تقليدية في التدريس والتدريب تهدف إلى رفع قدرات الطلبة وتعزيز مهاراتهم.



- كلية إدارة الأعمال ٥٨
- كلية علوم وهندسة الحاسب الآلي ٥٩
- كلية طب الأسنان ٦٠
- كلية الهندسة ٦١
- كلية اللغات الأجنبية والترجمة ٦٣
- كلية الصيدلة والعلوم الصحية ٦٤
- كلية المعلومات والإعلام والعلاقات العامة ٦٥
- كلية التربية والعلوم الأساسية ٦٧

ملخص عن الكليات التي تدرس باللغة الإنجليزية

١٢- توصيف مساقات متطلبات الجامعة

أ- المساقات الإلزامية

١- اللغة الإنجليزية

١٣٠، ١٣١

يتضمن المساق قدرا مناسباً من الطرق والمفاهيم الأساسية لعلم الإحصاء مما يسهم في إكساب الطالب القدرة على التعامل مع البيانات وكيفية عرضها واستخلاص المؤشرات منها. ويشمل ذلك التوزيعات الإحصائية، تطبيقات على التوزيعات الإحصائية، عناصر التوزيع الإحصائي، الاحتمال، توزيعات جاكوس الإحصائية، معالجة المعلومات بالعلاقات والنماذج الإحصائية.

٢- الرياضيات بغض النظر عن التخصص

١٣٠، ١٣١

يتضمن هذا المساق وصفاً عاماً لطريقة عمل الحاسب وكيفية استخدامه بطريقة فعالة وتعريف الطالب بالجوانب المختلفة لتقنية المعلومات واستخدامها في المجالات المختلفة. يتناول المساق المواضيع: مكونات الحاسب، البرمجيات، استرجاع المعلومات، البرامج التطبيقية، الشبكات، تصميم الرسومات، الوسائط المتعددة، الانترنت، استرجاع المعلومات، الجوانب القانونية والأخلاقية في تقنية المعلومات.

٣- الثقافة الإسلامية

١٣٠، ١٣١

الثقافة الإسلامية وأهميتها، أهمية الدين في حياة الإنسان، أثر العقيدة الصحيحة في حياة الإنسان وسلوكه، العقيدة الإسلامية وأركان الإسلام، القرآن والسنة، المجتمع الإسلامي ونظامه التشريعي، المرأة ومكانتها في الإسلام، الغزو الفكري وأهدافه ووسائله وأخطاره، حفظ سورة من القرآن الكريم مع تفسيرها، وقضايا أخرى تخص المساق وتعالج من خلاله.

٤- الشريعة الشرعية العامة

١٣٠، ١٣١

يتضمن مساق اللغة العربية دراسة فروع اللغة العربية التي تناسب الطالب الجامعي غير المتخصص، كدراسة بعض النصوص الرفيعة شعراً ونثراً، بحيث تختار من مختلف عصور الأدب، وذلك للوقوف على أساليب التعبير، وإجراء بعض التطبيقات اللغوية والنحوية والصرفية والبلاغية عليها، بالإضافة إلى دراسة

بعض الأبواب النحوية: الجملة الاسمية، والجملة الفعلية، الإعراب، البناء، الإعراب بالحروف، العدد، وبعض القضايا الإملائية: الهمزة، والألف اللينة، والتاء المربوطة والمفتوحة.

٥- اللغة الإنجليزية

١٣٠، ١٣١

English I is a course in English as a foreign language at the intermediate level. It provides practice in the language skills of listening, speaking, reading and writing and a review of structures. There is a functional element in the course. The language laboratory is used for listening and speaking practice.

ب- المساقات الاختيارية :

١- الرياضيات

١٣٠، ١٣١

الدالة ذات المتغير الواحد، تعريفها، مجالها، مداها، نهاية دالة، دراسة اتصال الدالة عند نقطة في مجالها وعلى فترة من المجال، الدوال الأسية والدوال اللوغاريتمية والدوال المثلثية وكذلك الدوال الزائدية، ومعكوس كل منها، الاشتقاق: تعريفه وقواعده، قاعدة السلسلة، الاشتقاق الضمني، نظرية "رول" ونظرية القيم العظمى والصغرى ورسم المنحنيات.

٢- الرياضيات المتقدمة: وإعداد الاختصاص

١٣٠، ١٣١

يتضمن هذا المساق دراسة ظاهرة الإبداع والابتكار، جذورها، مقوماتها، دورها في التطور العلمي، خصائص العملية الإبداعية، خصائص الشخص المبدع، المعرفة الإنسانية، العلم والتفسير العلمي للظواهر المحسوسة، العلم ومزاج العصر، النمو المتسارع للعلم، نبذة عن تاريخ التطور العلمي، أبرز الظواهر الإبداعية، أبرز العلماء والمبتكرين ودراساتهم كظاهرة خاصة، الاختراع، تسجيل الاختراع، الاستفادة منه، براءة الاختراع، الحقوق المادية والفكرية لصاحب الاختراع.

٣- تاريخ الحضارة الإسلامية

١٣٠، ١٣١

يتضمن هذا المساق التعريف بالأسس التي قامت عليها الحضارة الإسلامية بصفتها حضارة إنسانية عالمية، نشوء العلوم في العصر الإسلامي، الصلات مع الحضارات الأخرى، ودراسة أهم المنجزات العلمية عند المسلمين في مجالات الميكانيكا والبصريات والفلك والطب والعقاقير، أمثلة عن علماء مسلمين بارزين في كل من هذه المجالات، العوامل التي ساعدت على تحقيق تلك الإنجازات والدور الذي لعبته علوم المسلمين في التطور على مستوى عالمي.

٤- علم النفس المعرف

١٣٠، ١٣١

يعطي هذا المساق فكرة عامة عن المبادئ الأولية والمفاهيم الأساسية في مجالات علم النفس المختلفة وخاصة ما سيكون عوناً للطلاب على استيعابه مساقات أخرى. وكذلك مساعدة الطالب على تكوين موقف إيجابي من علم النفس وإدراك أهميته التطبيقية في مجالات الحياة المختلفة، ويتضمن المساق تعريفات أساسية مع أهم المدارس الفكرية في علم النفس.

٥- منهج البحث العلمي

١٣٠، ١٣١

مفهوم العلم، أهداف العلم، مفهوم البحث العلمي، خصائص البحث العلمي، مناهج البحث المختلفة، فلسفة البحث العلمي، إعداد مخطط البحث، أدوات جمع البيانات واستخدامها، البحوث النظرية، البحوث التطبيقية، البحوث التجريبية، إعداد البحث.

٦- الفلسفة والفكر والفن

١٣٠، ١٣١

هذا المساق يتقن الطالب بالمفاهيم الأساسية والعناصر الرئيسية والتي تشمل الغلاف الجوي والغلاف المائي والغلاف الصخري وتفاعلها وتأثيرها بالأنشطة البشرية، يناقش المساق موارد المياه وموارد الطاقة التقليدية والبديلة، كما يناقش مظاهر وتبعات تلوث الهواء والمياه والتربة وجهود الحد من آثارها الضارة على الإنسان والبيئة، ويعطي المساق اهتماماً خاصاً لقضايا البيئة والمياه والطاقة في دولة الإمارات العربية المتحدة ودول مجلس التعاون الخليجي.

٩- الدراسات المسائية

تنظم شبكة الجامعة برامج للدراسات المسائية للذين يرغبون في استكمال دراستهم الجامعية من حملة الشهادة الثانوية العامة أو ما يعادلها، للحصول على الدرجات العلمية التي تمنحها الجامعة.

ونظام الدراسة فيها هو نفس النظام المتبع في الدراسات العادية إلا أن ساعات المحاضرات تبدأ اعتباراً من الساعة الثالثة والنصف مساءً.

١٠- الرسوم الدراسية والوائحات المالية

١- رسوم التسجيل وطلب الالتحاق

- رسوم التسجيل وطلب الالتحاق ١٣٠٠ درهم إماراتي، تدفع نقداً مرة واحدة عند تقديم ملف الالتحاق ولا تعد جزءاً من الرسوم الدراسية.
- لا تسترد رسوم التسجيل إلا في حالة عدم قبول الطالب (الطالبة).
- رسوم معادلة المساقات ٥٠٠ درهم يدفعها الطالب (الطالبة) مقابل معادلة مساقات درسها في مؤسسات تعليم عال معتمدة، وهي غير قابلة للاسترداد، ويتم احتسابها ضمن رسوم التسجيل إذا التحق الطالب بالدراسة في شبكة الجامعة.

٢- الرسوم الدراسية

١-٢ الساعات المعتمدة

تحدد الرسوم الدراسية في الكليات والخصصات التي تطرحها شبكة الجامعة وفق نظام الساعات المعتمدة، وذلك كما يأتي:

الكليات	رسوم الساعة المعتمدة الواحدة
كلية طب الأسنان	٧٧٥ درهم
كلية الصيدلة والعلوم الصحية	٧٠٠ درهم
باقي الكليات	٥٠٠ درهم

٢-٢ الإرشاد الأكاديمي

يدفع الطالب (الطالبة) ٢٠٠ درهم رسوم مساق الإرشاد الأكاديمي وذلك مرة واحدة طيلة فترة دراسته.

٣-٢ رسوم المختبرات

تختلف رسوم المختبرات من كلية إلى أخرى وهي تتراوح بين ٢٠٠ درهم إماراتي كحد أدنى و ٦٠٠ درهم كحد أقصى.

٤-٢ رسوم إضافية

يدفع الطالب الرسوم الإضافية الآتية:

- ١٥٠ درهم: رسوم الفحص الطبي، تدفع مرة واحدة عند أول تسجيل للطالب.
- ٢٠ درهم: رسوم خدمات طلابية.

- ٥٠ درهم: رسوم تقديم طلب زغير مكتمل.
- ٣٠ درهم: رسوم إصدار شهادة لمن يهمله الأمر.
- ٢٠ درهم: رسوم إصدار نسخة إضافية من السجل الدراسي.
- ٣٠ درهم: رسوم طلب تظلم.
- يجب على الطالب (الطالبة) سداد الرسوم الدراسية كاملة للمسابقات التي يسجلها عند طلبه تسجيل هذه المسابقات ويمنع على أي طالب (طالبة) دخول قاعات المحاضرات إلا بعد سداد هذه الرسوم كاملة.
- تحتفظ شبكة الجامعة بحق تعديل الرسوم المذكورة أعلاه إذا اقتضى الأمر ذلك.

٢- إجراءات استرداد الرسوم الدراسية:

١-٣ سحب مساقات دراسية:

- تحدد فترة السحب والإضافة في مدة أسبوعين بعد تاريخ بدء الدراسة وذلك وفق التقويم الجامعي المنشور، ويحق للطالب (الطالبة) خلال فترة السحب والإضافة سحب مساقات أو إضافتها بدون فقدان أي جزء من الرسوم.
- إذا أضاف الطالب (الطالبة) مساقاً أو أكثر خلال الفترة المسموح فيها بالإضافة، يتعين عليه دفع رسوم المساق أو المساقات المضافة عند تقديمه طلب الإضافة وإلا لن يقبل الطلب.
- إذا سحب الطالب (الطالبة) مساقاً أثناء فترة السحب أو الإضافة، يحق له بعد انقضاء فترة السحب والإضافة استرداد رسوم المساق المسحوب أو الاحتفاظ بها في رصيده للفصل اللاحق.
- يجوز للطالب (الطالبة) سحب مساق أو أكثر بعد انقضاء فترة السحب والإضافة، شريطة ألا يقل عدد المساقات المسجلة عن ثلاث مساقات، ولا يحق له في هذه الحالة استرداد أي جزء من الرسوم الدراسية للمساق أو المساقات المسحوبة.
- إذا رغب الطالب (الطالبة) في استرداد أي مبلغ في رصيده زائد عن قيمة الرسوم الدراسية المتوجب عليه سدادها، يتعين عليه بعد انتهاء فترة السحب والإضافة تعبئة نموذج طلب استرداد الرسوم لدى مسؤول حسابات الطلبة وإلا يحتفظ بالمبلغ الزائد في رصيد الطالب (الطالبة) للفصل اللاحق.

٣-٢ وقف التسجيل لفصل أو فصلين دراسيين

- يجوز للطالب (الطالبة) أن يتقدم إلى إدارة القبول والتسجيل أثناء فترة السحب والإضافة بطلب وقف التسجيل لفصل واحد أو فصلين متتاليين على الأكثر، وفي هذه الحالة يحتفظ بالرسوم التي كان دفعها الطالب (الطالبة) في رصيده للفصل اللاحق أو يستردها بعد مرور أسبوع على تقديم طلب الاسترداد إلى مسؤول حسابات الطلبة.
- إذا تقدم الطالب (الطالبة) إلى إدارة القبول والتسجيل بطلب وقف التسجيل لفصل واحد أو فصلين متتاليين على الأكثر خلال الأسبوعين الذين يليان انتهاء فترة السحب والإضافة، لا يحق له استرداد إلا ٥٠٪ من الرسوم الدراسية التي دفعها.

٦ - الإنذار بسبب الغياب

إن مواظبة الطالب على حضور المحاضرات النظرية والدروس العملية في مواعيدها في برنامج دراسته بعد أدنى ٧٥٪. أمر إلزامي تحرض الجامعة على تطبيقه بالدقة التامة حفاظا على مستوى التحصيل العلمي فيها. ومن هنا جاءت أهمية تنبيه الطالب بشأن غيابه وفقا لما يأتي:

- ١- الإنذار بشأن الغياب ١٠٪: إذا بلغت نسبة غياب الطالب عن محاضرات أي مساق ١٠٪ من عدد ساعاته النظرية والعملية. يوجه له إنذار أول.
- ٢- الإنذار بشأن الغياب ٢٠٪: إذا بلغت نسبة غياب الطالب عن محاضرات أي مساق ٢٠٪ من عدد ساعاته النظرية والعملية. يوجه له إنذار ثان.
- ٣- الرسوب بسبب الغياب: إذا بلغت نسبة غياب الطالب عن محاضرات أي مساق ٢٥٪ فأكثر من عدد ساعاته النظرية والعملية. يعد راسبا في ذلك المساق. ويعطى علامة (صفر) فيه. ويحسب في معدله الفصلي والتراكمي.

لمجلس الشؤون العلمية والتعليمية الحق في اعتبار الطالب منسجبا من المساق بدون رسوب إذا قدم عذرا يسوغ فيه أسباب غيابه بشكل رسمي. يقبله المجلس.

٧- الإنذار الأكاديمي

يوجه إنذار أكاديمي للطالب إذا قل معدله التراكمي عن (٢) نقطة بنهاية الفصل الدراسي (باستثناء الفصل الدراسي الأول من خطة الطالب الدراسية والفصل الصيفي).

يسمح للطالب المنذر إنذارا أكاديميا أول بتسجيل خمسة مسابقات (١٥ ساعة معتمدة) كحد أقصى ويتوجب عليه إعادة مساق واحد أو مساقين وذلك حسب معدله التراكمي.

يسمح للطالب المنذر إنذارا أكاديميا ثانيا بتسجيل أربعة مسابقات (١٢ ساعة معتمدة) كحد أقصى ويتوجب عليه إعادة مساقين على الأقل من التي حصل فيهما على علامة راسب (هـ) أو (د).

يسمح للطالب المنذر إنذارا أكاديميا ثالثا بإعادة سبع ساعات معتمدة

يعطى الطالب المنذر إنذارا أكاديميا ثالثا مهلة فصل دراسي واحد لرفع معدله التراكمي إلى (٢) نقطة أو أكثر. وإذا عجز عن ذلك تتخذ الكلية بحقه أحد الإجراءات الآتية.

١- يسمح للطالب بالاستمرار لفصل دراسي واحد إذا أكمل ٨٠٪ من الخطة الدراسية والحصول على معدل تراكمي (٢) نقطة ممكنا في نهاية الفصل الدراسي.

٢- تحويل الطالب إلى تخصص آخر (شرط موافقة الكلية المحول إليها) ويشترط أن يحصل الطالب على معدل تراكمي لا يقل عن (2) نقطة في المساقات المتضمنة في تخصصه الجديد.

٣- توقيف الطالب عن الدراسة في شبكة الجامعة لمدة أقصاها فصلين دراسيين

ويسمح للطالب خلال هذه الفترة بتسجيل مساقات في جامعة أخرى معترف بها. ويمكن إعادة تسجيل الطالب في شبكة الجامعة إذا حصل على معدل تراكمي لا يقل عن (2) نقطة بعد تحويل المساقات التي استوفت شروط التحويل المعمول بها في شبكة الجامعة.

٤- فصل الطالب من شبكة الجامعة.

إزالة أثر الإنذار الأكاديمي

يمكن الطالب من إزالة الإنذار الأكاديمي في نهاية الفصل إذا حصل على معدل تراكمي (2) نقطة أو أكثر.

٨- متطلبات التخرج

يمنح الطالب الدرجة العلمية لدى استيفائه الشروط الآتية:

- ١- إتمام دراسة مقررات الخطة الدراسية بنجاح.
- ٢- إنهاء مدة التدريب العملي المقررة في الخطة الدراسية.
- ٣- الحصول على معدل تراكمي لا يقل عن (٢) نقطة.

تقديرات الدرجة العلمية

يتم تقدير الشهادات التي تمنحها الجامعة وفقا للمعدل التراكمي الذي حصل عليه الطالب بالتقديرات الآتية:

النقاط	التقدير
من ٤ إلى ٤.٥	امتياز مع مرتبة الشرف
من ٣.٧٥ إلى أقل من ٤	امتياز
من ٣.٧٥ إلى أقل من ٣.٧٥	جيد جدا
من ٢.٢٥ إلى أقل من ٣.٧٥	جيد
من ٢ إلى أقل من ٢.٢٥	مقبول

تقدير (غير مكتمل):

- إن حضور الامتحان النهائي إلزامي، وفي حالة إخفاق الطالب في حضور الامتحان في مساق ما يعتبر راسياً فيه. وإذا تعذر دخول الطالب الامتحان النهائي بسبب قهري، يعطى تقدير "غير مكتمل". الأسباب القهرية المقبولة هي:
 - تقرير طبي معتمد من طرف طبيب شبكة الجامعة.
 - شهادة وفاة أحد أفراد أسرة الطالب.
 - استدعاء الطالب للمحكمة أو الشرطة.

يشترط أن يتقدم الطالب بطلبه في مدة لا تتجاوز ثلاثة أيام من تاريخ الامتحان ويقوم الطالب بتعبئة النموذج المعد لذلك والموجود لدى عمادة القبول والتسجيل على أن يرفق معه ما يثبت العذر الاضطراري.

تقوم عمادة القبول والتسجيل باستكمال البيانات الخاصة بها، وختم الطلب بخاتمها الرسمي وتحويل الطلب إلى قسم الحسابات لمعرفة ما إذا كانت على الطالب التزامات مالية أم لا.

لكي ينظر القسم المختص في طلب تقدير "غير مكتمل" يجب أن يكون الطالب مستوفياً للشروطين الآتيين.

- أ- الانتظام بالدراسة وعدم تجاوز نسبة ٢٥٪ من الغياب.
- ب- ألا يقل مجموع علاماته في الأعمال الفصلية عن ٦٠٪ منها أي ٣٠/٥٠.

يجب على الطالب الذي حصل على تقدير "غير مكتمل" في مساق ما، أن يزيل هذا التقدير قبل نهاية الأسبوع الثاني من الفصل الدراسي الذي يلي حصوله على تقدير غير مكتمل فيه وفقاً للموعد الذي تحدده الكلية المختصة.

إذا أوقف الطالب تسجيله في فصل دراسي ما، وكان عليه إزالة تقدير "غير مكتمل" في هذا الفصل يجب عليه إزالة هذا التقدير في أول فصل دراسي يعيد تسجيله فيه.

يحسم ١٠٪ من درجة الامتحان النهائي شريطة ألا يؤدي هذا الحسم إلى رسوب الطالب.

التظلم:

يعطى الطالب فرصة ١٥ يوماً بعد إعلان النتائج لتقديم طلب تظلم على نتيجة الامتحان.

يقوم الطالب بتعبئة نموذج التظلم الموجود لدى عمادة القبول والتسجيل والتي تقوم بدورها بتحويله إلى الكلية المعنية لاتخاذ الإجراء اللازم.

تقوم الكلية بعد دراسة الطلب واتخاذ اللازم بإبلاغ عمادة القبول والتسجيل والتي تقوم بدورها بإبلاغ الطالب بنتيجة دراسة التظلم.

إعادة الامتحان:

إذا نجح الطالب في جميع متطلبات التخرج فيما عدا مساقاً واحداً وكان راسياً فيه في الفصل الأخير قبل التخرج، يسمح له بإعادة تسجيله مباشرة بعد النتيجة وإعادة امتحانه النهائي فيه بعد دفع (٥٠٪) من رسوم المساق المعين خلال فترة اسبوعين من إعلان النتائج.

الساعات المكتبية:

يحق للطالب الخريج التسجيل بما لا يزيد على ثلاثة مساقات كساعات مكتبية بشرط تحقيق الشروط الآتية:

- ١- أن يكون الطالب متخرجاً في الفصل الدراسي نفسه.
 - ٢- أن يكون الطالب قد رسب سابقاً في المساق المسجل فيه كساعات مكتبية.
 - ٣- أن يكون مساقاً غير مطروح في الفصل الدراسي نفسه.
 - ٤- موافقة مجلس الكلية.
 - ٥- أن لا يزيد العبء الدراسي للطالب على ما تسمح بها لوائح الجامعة.
- على الطالب المسجل مساقاً كساعات مكتبية مراجعة أستاذ المساق لمدة ساعة اسبوعياً في الفصل الدراسي المنتظم وثلاث ساعات اسبوعياً في الفصل الصيفي.
- تطبق جميع شروط الحضور والغياب والتقويم على المساقات المسجلة كساعات مكتبية كغيرها من المساقات.

المعدل الفصلي:

هو مقياس يدل على مستوى التحصيل العلمي للطالب في الفصل

$$\text{مجموع (الساعات المعتمدة لكل مساق} \times \text{عدد النقاط التي حصل عليها في المساق)}$$

$$\text{مجموع عدد الساعات المعتمدة التي سجل فيها خلال الفصل}$$

مثال توضيحي: إذا حصل الطالب في فصل ما على النتائج المبينة في الجدول الآتي:

المساق	عدد الساعات المعتمدة	النتيجة بالنقاط	عدد الساعات \times النقاط
الثقافة الإسلامية	٣	٤	١٢
اللغة العربية	٣	٤	١٢
اللغة الانجليزية ١	٣	٢	٦
فيزياء ١	٣	٣	٩
الرياضيات ١	٣	٣	٩
الإحصاء	٣	٢	٦
المجموع	١٨		٥٤

فإن معدله الفصلي يكون كما يلي:

$$\bar{x} = \frac{٥٤}{١٨} = \frac{٦+٩+٩+٦+١٢+١٢}{١٨}$$

المعدل التراكمي

هو مقياس يدل على مستوى تحصيل الطالب في جميع الفصول الدراسية منذ التحاقه بالجامعة حتى زمن احتساب هذا المعدل. ويحسب على النحو الآتي:

$$\text{مجموع (الساعات المعتمدة لكل مساق} \times \text{عدد النقاط التي حصل عليها في المساق)}$$

$$\text{مجموع الساعات المعتمدة التي سجل فيها خلال الفصول الدراسية}$$

إذا نجح الطالب في مساق رسب فيه سابقا، يحسب المعدل التراكمي له بأخذ العلامة التي حصل عليها في ذلك المساق. وتهمل الأصفار السابقة فيه مهما كان عددها. على أن تبقى العلامة الأولى في سجله الدراسي.

إذا أعاد الطالب دراسة مساق ما من أجل تحسين معدله يحسب المعدل التراكمي له على أساس آخر علامة حصل عليها في ذلك المساق سواء أكانت العلامة النهائية أعلى أم أدنى من سابقتها (على أن تبقى العلامة الأولى بتقديرها ونقاطها في سجله الدراسي).

٥ - الامتحانات ونظم التقويم:

التقويم العلمي للطلبة:

يتم التقويم العلمي للطلبة في كل مساق يدرسه في الفصل الدراسي الواحد وفقاً للمقاييس التي تضعها الكلية والتي ترد في توصيف المساق: تعد العلامة ١٠٠ الحد الأعلى لتقويم كل مساق ويتم تقسيمها على النحو الآتي:

٣٠ علامة	١- الأنشطة الفصلية
٢٠ علامة	٢- امتحان نصف الفصل
٥٠ علامة	٣- امتحان نهاية الفصل

تشمل الأنشطة الفصلية امتحانات السعي، الاختبارات الجزئية، الواجبات الفصلية، الأبحاث، المختبرات والتدريبات. تُعد العلامة ٦٠٪ الحد الأدنى للنجاح في أي مساق يدرسه الطالب في الجامعة.

التقديرات:

توزع تقديرات النجاح في المساق بحسب العلامات التي يحصل عليها الطالب فيه. وفق التقسيم الآتي:

م	العلامة	التقدير	الرمز	النقاط
١	من ٩٥ إلى ١٠٠	امتياز بمرتبة الشرف	+أ	٤.٥
٢	من ٩٠ إلى ٩٤	امتياز	أ	٤
٣	من ٨٥ إلى ٨٩	جيد جداً مرتفع	+ب	٣.٥
٤	من ٨٠ إلى ٨٤	جيد جداً	ب	٣
٥	من ٧٥ إلى ٧٩	جيد مرتفع	+ج	٢.٥
٦	من ٧٠ إلى ٧٤	جيد	ج	٢
٧	من ٦٥ إلى ٦٩	مقبول مرتفع	+د	١.٥
٨	من ٦٠ إلى ٦٤	مقبول	د	١
٩	أقل من ٦٠	راسب	هـ	صفر



سحب المساقات وإضافتها:

يتوجب على الطالب ان يقوم بعملية السحب والإضافة بموافقة مرشده الأكاديمي وخلال الفترة المقررة للسحب والاضافة . وفي خلال هذه الفترة يتسنى للطالب الاحتفاظ بالرسوم الدراسية للمساقات التي يعتزم سحبها . ويتحتم على الطالب أن يسجل على الأقل تسع ساعات في الفصل الدراسي .

يبين التقويم الجامعي المواعيد المقررة لسحب المساقات بدون أثر في السجل الدراسي مع فقدان الطالب للرسوم التي سدها .

يبين التقويم الجامعي آخر موعد لسحب المساقات مع اظهار علامة (W) في سجل الطالب الدراسي وفقدان الرسوم التي سدها . علما بأن علامة (W) لا تدخل في حساب المعدل التراكمي للطالب ولا يتأثر بها .

وقف التسجيل:

يسمح وقف التسجيل للطالب الذي أكمل فصلا دراسيا واحدا في شبكة الجامعة . وان عدد الفصول الدراسية التي يمكن للطالب ايقافها هي أربعة فصول دراسية وتكون إما فصلين متتاليين وإما أربعة فصول متفرقة . بشرط أن يتقدم الطالب باخطار عمادة القبول والتسجيل كتابيا والحصول على موافقتها .



٤- الإرشاد الأكاديمي وتسجيل المسابقات

• الإرشاد الأكاديمي

يعد الإرشاد الجامعي الركيزة الأولى التي يعتمد عليها نظام الساعات المعتمدة وهو لا يقتصر في وظائفه على التعريف بالخطة الدراسية ومساقاتها فقط، بل يتعداها إلى توثيق العلاقة بين الطلبة وأولياء الأمور وأعضاء هيئة التدريس بما يحقق الأهداف المتوخاة من العملية التربوية. ويقسم الإرشاد إلى قسمين:

١- الإرشاد العام:

يشتمل على تعريف الطلبة بالنظام الجامعي ويتم ذلك عن طريق:

١. لقاء تعريفى مبدئى قبل بداية الفصل الدراسي يجمع الطلبة الجدد وأولياء أمورهم وأعضاء هيئة التدريس. والهدف منه التعريف بالنظام الجامعي ونظام الساعات المعتمدة وخطوات التسجيل والتعرف على المرشدين الأكاديميين بالإضافة إلى التعريف بمراقق الجامعة.
٢. برنامج تعريفى طوال الفصل الدراسي الأول للطلاب للتعريف بنظم ولوائح الجامعة وما تقدمه من خدمات (لمزيد من التفاصيل انظر دليل الإرشاد الأكاديمي).

٢- الإرشاد الخاص: ويهدف إلى:

١. متابعة الطالب ونصحه في أثناء مسيرته التعليمية منذ اختيار تخصصه وحتى تخرجه.
٢. إعداد الطالب نفسياً وفكرياً للتواءم مع البيئة الجامعية.
٣. مناقشة نتائج الفصل الدراسي السابق.
٤. إعداد وتنظيم الخطة الدراسية للطلاب.
٥. مساعدة الطالب في اختيار المسابقات في بداية الفصل الدراسي وبما يتناسب مع قدراته ونتائجه في الفصل السابق.
٦. متابعة التحصيل العلمي للطالب.
٧. متابعة حضور الطالب للمحاضرات.
٨. توطيد التواصل والتعاون بين أسرة الجامعة وأولياء الأمور من خلال شؤون الطلبة.
٩. مساعدة الطالب فيما قد يواجه من مشكلات خاصة.
١٠. اللقاء المنتظم مع الطلبة المنظرين أكاديمياً من أجل رفع مستواهم العلمي.

المُرشد الأكاديمي

عضو هيئة التدريس الذي يقوم بتقديم العون للطلاب في أثناء عملية التسجيل كما يتولى مساعدة الطالب وإرشاده في تنفيذ خطته الدراسية وتقديم النصح له في الأمور المتعلقة بالشؤون الأكاديمية ومتابعة تحصيله العلمي واختيار المسابقات التي سوف يسجلها ويساعده في حل ما قد يعترضه من مشكلات. ويوزع الطلبة على المرشدين في القسم العلمي.

• تسجيل المسابقات

تسجيل المسابقات للطلبة المستجدين:

ينبغي على الطلبة الجدد حضور محاضرة الإرشاد الأكاديمي التي تعقدتها الكليات في بداية الفصل الدراسي. والهدف من عقد هذه المحاضرات هي تزويد الطالب بنبذة عن نظام الساعات المعتمدة التي تتبعه الجامعة وكذلك نصحه بالمسابقات التي يتوجب أن يسجل فيها خلال الفصل الدراسي الأول، كما تهدف هذه المحاضرات إلى تزويد الطالب الجديد بخطوات التسجيل التي يجب اتباعها، وكذلك تزويده بنبذة عن الإرشاد الأكاديمي.

يتم اختيار الطالب للمسابقات وادخالها على الحاسب من قبل مرشده الأكاديمي، على أن يقوم الطالب بتسديد الرسوم الدراسية المترتبة على تسجيله للمسابقات الدراسية، وبعد ذلك يمكن للطالب أن يحصل على الجدول الدراسي مبيناً به المسابقات الدراسية التي سجلها، وأسماء أعضاء هيئة التدريس الذين يقومون بتدريسه المسابقات كما يبين في الجدول الدراسي أماكن القاعات الدراسية والمعامل التي سوف يحضر فيها. هذا ويمكن الغاء قبول الطالب اذا لم ينه اجراءات تسجيل المسابقات في الوقت المسموح به لتسجيل المسابقات.

تسجيل المسابقات للطلبة المنتظمين:

تشجع الكليات الطلبة غير المنظرين أكاديمياً بأن يقوموا بعملية التسجيل المبكر لاختيار المسابقات بمساعدة مرشديهم الأكاديميين، خلال فترة التسجيل المبكر المعلنة في التقويم الجامعي. ويمكن للطلبة المنظرين أكاديمياً والذين لم يتمكنوا من تسجيل المسابقات خلال فترة التسجيل المبكر المسموح بها بتسجيل مسابقاتهم أثناء فترة التسجيل المحددة في التقويم الجامعي.

متطلبات الجامعة

هي مجموعة من المساقات التي يجب على الطالب (مهما كان تخصصه) أن يجتازها بنجاح. وتهدف هذه المساقات إلى إغناء ثقافة الطالب بالمعطيات الحديثة في مجالات العلوم الطبيعية والإنسانية فضلا على تزويده بما يحتاجه من مهارات لغوية إضافة إلى ما هو ضروري وأساسي لإدراك البعد التراثي والحضاري للفكر الإسلامي. وتنقسم هذه المتطلبات إلى قسمين .

١- متطلبات إجبارية :

اسم المساق	عدد الساعات المعتمدة
١- الإحصاء	٣
٢- أساسيات تقنية المعلومات	٣
٣- الثقافة الإسلامية	٣
٤- اللغة العربية	٣
٥- اللغة الإنجليزية (١)	٣

٢- متطلبات اختيارية :

يختار الطالب ثلاثة مساقات منها. وفقا لمتطلبات كل كلية وبما يتلاءم مع خطته الدراسية. وهذه المساقات هي :

اسم المساق	عدد الساعات المعتمدة
١- الرياضيات (١)	٣
٢- الريادة العلمية وبراءات الاختراع	٣
٣- تاريخ العلوم عند المسلمين	٣
٤- علم النفس العام	٣
٥- مناهج البحث العلمي	٣
٦- اللغة الإنجليزية (٢)	٣
٧- البيئة والمياه والطاقة	٣

تصنيف الطلبة:

يصنف طلبة شبكة الجامعة حسب ما يلي :

- يعد الطالب في مستوى السنة الأولى ما دام لم ينجز ٣٣ ساعة معتمدة
- يعد الطالب في مستوى السنة الثانية إذا أنجز ما بين ٣٣ و ٦٥ ساعة معتمدة.
- يعد الطالب في مستوى السنة الثالثة إذا أنجز ما بين ٦٦ و ٩٨ ساعة معتمدة.
- يعد الطالب في مستوى السنة الرابعة إذا أنجز ما بين ٩٩ و ١٣٢ ساعة معتمدة
- يعد الطالب في مستوى السنة الخامسة إذا أنجز أكثر من ١٣٢ ساعة معتمدة.
- (ومسجلا في كلية الهندسة ، كلية الصيدلة والعلوم الصحية ، وكلية طب الأسنان)



٣- نظام الدراسة

تتبع شبكة الجامعة نظام الساعات المعتمدة الذي يقوم على تحديد عدد الساعات الدراسية التي يجب إتمامها، والنجاح فيها وفق المستوى الذي تحدده شبكة الجامعة للحصول على الدرجة الجامعية الأولى (البكالوريوس) في أحد تخصصات الكليات العلمية

تعريفات

الساعة المعتمدة:

هي مدة ساعة صفية مخصصة لمحاضرة نظرية واحدة في الأسبوع على مدى ستة عشر أسبوعاً، وكل ساعتين عمليتين في الأسبوع (مختبرات وتدريباً، أو ورش عمل) تعادل ساعة نظرية واحدة.

المساق:

هو مقرر دراسي يدرسه الطالب وفق برنامج منظم في عدد من الساعات المعتمدة في الأسبوع خلال الفصل الدراسي الواحد. ويعطى كل مساق اسماً ورقماً بهدف تعريفه وتصنيفه، ويرتبط المساق مع مساقات أخرى في خطة دراسية متكاملة.

المتطلب السابق:

هو المساق الذي تتطلب الخطة الدراسية أن يجتازه الطالب بنجاح قبل السماح له بالتسجيل في مساق لاحق. (إذا أخذنا اللغة الإنجليزية كمثال: فإن مساق اللغة الإنجليزية "٨" هو المتطلب السابق لمساق اللغة الإنجليزية "٣").

الفصل الدراسي:

هو مدة زمنية خاصة بالتدريس تمتد إلى (١٦) ستة عشر اسبوعاً لا تدخل ضمنها مدة امتحانات نهاية الفصل

العام الدراسي:

هو المدة الزمنية المخصصة للتدريس والتي يتم تحديدها في نهاية كل عام دراسي طبقاً للتقويم، ويتألف العام الدراسي الواحد من فصلين دراسيين (الفصل الدراسي الأول والفصل الدراسي الثاني). ويفصل بينهما عطلة نصف العام الدراسي ومدتها أسبوعان. ويجوز لشبكة الجامعة أن تنظم فصلاً مكثفاً خلال أشهر الصيف، ويسمى (الفصل الدراسي الصيفي).

الخطة الدراسية:

تضم الخطة الدراسية في تخصص معين ما يأتي:

- ١- وصفاً شاملاً لبرنامج الدراسة الذي يدرسه الطالب في تخصصه.
- ٢- مجموعة من المساقات المتكاملة التي ينبغي على الطالب دراستها للحصول على الدرجة الجامعية الأولى (البكالوريوس).
- ٣- فترة تدريب عملي ولها ساعات معتمدة ضمن مساقات الخطة الدراسية وتتراوح مدتها تبعاً للتخصص (انظر الخطة الدراسية للتخصص المطلوب).

النصاب (المبء) الدراسي:

هو عدد الساعات المعتمدة التي يسجلها الطالب، ويتابع الدراسة فيها أسبوعياً وفقاً لبرنامج منظم طول الفصل الدراسي الواحد. ويكون النصاب ما بين (٩) تسع ساعات معتمدة و (١٨) ثمانية عشر ساعة معتمدة في الفصل الدراسي العادي وما بين (٣) ساعات و (٦) ساعات معتمدة في الفصل الصيفي.

ويحق للطالب زيادة نصابه الدراسي على الحد الأعلى المسموح به إلى (٢١) إحدى وعشرين ساعة معتمدة في الفصل الدراسي العادي وإلى (٩) تسع ساعات معتمدة في الفصل الصيفي وذلك في إحدى الحالتين الآتيتين:

١- إذا حصل على معدل تراكمي (٣.٥) نقطة فأكثر في الفصل الدراسي السابق للفصل الذي يجري التسجيل فيه.

٢- إذا اقتضت خطته الدراسية مثل تلك الزيادة لغرض التخرج في الفصل الدراسي نفسه (وبعد موافقة مجلس الكلية).

النقاط:

هي وحدات رقمية تستخدم في التعليم الجامعي لتقويم مستوى التحصيل في مساقات الدراسة المطلوبة بعلامات، ويعبر عن قيمة كل منها بعبارة نقاط لكل مساق يجري تدريسه. والحد الأعلى للنقاط في جامعة عجمان للعلوم والتكنولوجيا (٤.٥) أربع نقاط ونصف.



● تغيير التخصص

القواعد التي يبني عليها نظام تغيير التخصص داخل شبكة الجامعة هي:

أ- الطالب المستجد

يجوز للطالب المستجد التحويل من التخصص المسجل فيه الى تخصص آخر وذلك خلال فترة السحب والاضافة المسموح بها. وتتم إجراءات التحويل عن طريق عمادة القبول والتسجيل وفق الشروط الآتية:

١- توافر الشروط الخاصة بالقبول في التخصص العلمي المطلوب التحويل إليه.

٢- وجود أماكن شاغرة في حقل التخصص المراد التحويل إليه.

٣- موافقة الكلية المحول منها والكلية المحول إليها.

ب- الطالب المنتظم

يحق للطالب المنتظم التحويل من تخصص إلى آخر إذا استوفت فيه الشروط المتعلقة بالطالب المستجد في البندين ٢ و ٣ السابقين وما يأتي:

١- أن يسمح له آخر معدل فصلي حصل عليه بالتحويل إلى التخصص المطلوب (حسب الشروط التي تضعها الكلية).

٢- أن يقدم طلب التحويل خلال فترة السحب والإضافة في الفصل الدراسي العادي.

يمكن للطالب أن يغير تخصصه لمرة واحدة فقط خلال سنوات دراسته.



الوثائق المطلوبة:

- ١- استمارة طلب الالتحاق بشبكة الجامعة يتم الحصول عليها من عمادة القبول والتسجيل.
- ٢- وثيقة النجاح في "الثانوية العامة"، أو ما يعادلها (كشف العلامات)، أو صورة طبق الأصل مصدقة حسب الأصول.
- ٣- شهادة الميلاد.
- ٤- صورة عن جواز السفر.
- ٥- شهادة اللياقة الصحية، معتمدة من طبيب الجامعة.
- ٦- شهادة حسن السيرة والسلوك معتمدة من جهة رسمية.
- ٧- ست صور شخصية مقاس (٦×٤) سم.
- ٨- تعهد خطي من الطالب بالالتزام والتفديد بأنظمة الجامعة وقوانينها ولوائحها وتعليماتها.

صلاحية القبول:

يستمر قبول الطالب لفصل دراسي واحد. وفي حالة عدم تمكنه من الالتحاق بشبكة الجامعة عليه تقديم طلب وقف تسجيل خلال فترة تسجيل المواد لا يسمح للطلبة الذين إقامتهم على الجامعة بوقف التسجيل.

امتحان تحديد المستوى في اللغة الانجليزية:

لغة التدريس في كليات شبكة الجامعة هي اللغة الإنجليزية باستثناء تخصصين في كلية التربية والعلوم الأساسية. لذلك يجب على جميع الطلبة المقبولين بشبكة الجامعة في أي فصل دراسي التقدم لامتحان تحديد المستوى في اللغة الانجليزية، وبناء على نتيجة الامتحان يسجل الطالب بـ ٣ ساعات أو ٦ ساعات في مساق اللغة الإنجليزية على أن تحسب له ٣ ساعات معتمدة بعد النجاح.

● الانتقال إلى شبكة الجامعة من جامعات أخرى

يمكن للطلاب الذي يرغب في الانتقال من جامعة أو كلية معترف بها إلى شبكة جامعة عجمان للعلوم والتكنولوجيا أن يتقدم بطلب لعمادة القبول والتسجيل، ويصدر قرار قبوله عن لجنة القبول، وفقاً للشروط الآتية:

- ١- تحقيق شروط القبول في التخصص المرغوب فيه.
- ٢- أن يكون الطالب غير مفضل من الجامعة أو الكلية التي درس فيها.

إذا رغب الطالب في معادلة مساقاته قبل الالتحاق بشبكة الجامعة، يستوفى منه مبلغ (٥٠٠ درهم) لقاء هذا الإجراء، ويعتبر هذا المبلغ ضمن رسوم الالتحاق في حالة تسجيله وغير قابل للرد في حالة عدم الالتحاق بالجامعة.

شروط معادلة المساقات:

إن الطالب المنتقل من جامعة أو كلية أخرى إلى شبكة الجامعة يمكن أن تحسب له بعض المساقات شريطة أن يقدم إلى عمادة القبول والتسجيل سجلاً دراسياً من الجامعة أو الكلية التي يرغب في الانتقال منها مصدقاً حسب الأصول ويرفق معه دليل تلك الجامعة أو الكلية في الأعوام التي تمت دراسة تلك المساقات فيها. تتم معادلة المساقات حسب ما يلي:

- ١- أن يكون المحتوى العلمي مكافئاً للمساق المطلوب معادلته في شبكة الجامعة.
- ٢- ألا يقل عدد الساعات المعتمدة للمساقيات المطلوب معادلته عن نظيره في شبكة الجامعة.
- ٣- أن يكون الطالب حاصلًا على تقدير جيد في المساق المطلوب معادلته.

في حالة انتقال الطالب من جامعة أو كلية ذات نظام أكاديمي مختلف، ينظر في معادلة المساقات التي درسها الطالب في ضوء نظام التقديرات المعمول به في تلك الجامعة (تقدير جيد).

التقديرات أو المعدلات التي حصل عليها الطالب في المساقات المعادلة لا تدخل في احتساب معدله التراكمي في شبكة الجامعة.

إذا استوفى الطالب شروط المعادلة ولم يتمكن من تقديم محتويات المساقات التي درسها، تقوم الكلية المختصة بإجراء اختبار له ويتم البت في معادلة المساقات في ضوء نتائج الاختبارات.

لا تمنح شبكة الجامعة شهادة جامعية للطالب المنتقل إليها ما لم يكن قد أتم فيها دراسة ٥٠٪ على الأقل من الساعات المعتمدة لخطة الدراسية بنجاح في التخصص الذي يدرسه.

يمكن للطالب المسجل بشبكة الجامعة أن يدرس بعض المساقات في جامعة أخرى معتمدة شريطة أن يحصل مسبقاً على موافقة عميد الكلية. يخضع الطالب للإجراءات المتبعة في شبكة الجامعة لمعادلة المساقات.

٢- قواعد القبول

تحدد شبكة الجامعة بناءً على توصية من مجلس الشؤون العلمية والتعليمية، قبل بداية كل عام دراسي أعداد الطلبة الذين يمكن قبولهم في مختلف الكليات العلمية في ذلك العام - بفصليه الدراسيين: الأول والثاني وذلك في حدود الإمكانيات المتاحة.

وتوجه المراسلات والأوراق الخاصة بتقديم الطلبات إلى عمادة القبول والتسجيل باعتبارها الإدارة المختصة في هذا الشأن إضافة إلى كونها من أكثر الدوائر في إطار التعليم الجامعي التصاقاً بالحياة الدراسية للطلاب، حيث تستمر علاقتها معه من بداية تقديمه طلب الالتحاق بشبكة الجامعة إلى حين تسلمه شهادة التخرج، وهي في الوقت نفسه حلقة الاتصال بين الطالب من جهة، وباقي دوائر الجامعة المختلفة من جهة أخرى. وتحدد قواعد القبول فيما يأتي.

● إجراءات القبول العامة

يشترط في قبول الطلاب الجدد ما يأتي:

١- أن يكون الطالب حاصلاً على شهادة الثانوية العامة من دولة الإمارات العربية المتحدة أو ما يعادلها من وزارة التربية والتعليم.

٢- أن يكون الطالب مستوفياً لشروط القبول الخاصة بالكليات التي يرغب في الالتحاق بها على أساس مجموع العلامات التي تطلبها تلك الكلية.

شهادة الثانوية العامة (الفرع العلمي) تؤهل الطالب للالتحاق بجميع الكليات إذا استوفى شروط القبول التي تحددها الكلية المعنية.

شهادة الثانوية العامة (الفرع الأدبي)، بمعدل لا يقل عن ٦٠٪ تؤهل الطالب للالتحاق بالكليات التالية:

- كلية إدارة الأعمال.
- كلية اللغات الأجنبية والترجمة.
- كلية المعلومات والإعلام والعلاقات العامة والتخصصات التالية:

- بكالوريوس في اساليب وتقنيات التعليم تخصص إعداد معلم مادة في اللغة العربية والدراسات الإسلامية
- بكالوريوس التربية في تدريس اللغة الانجليزية كلغة أجنبية.
- بكالوريوس نظم معلومات
- بكالوريوس في التصميم الداخلي.
- دبلوم تكنولوجيا المعلومات

يتم القبول على أساس تنافسي بناءً على أعداد المتقدمين وإمكانات شبكة الجامعة في الاستيعاب.

القبول المشروط

في بعض الحالات الخاصة (غير المستوفية لشروط القبول) والتي تقتنع بها مجالس الكليات يتم منح الطالب قبولاً مشروطاً بحصوله على تقدير جيد في خمسة مواد (تحددها الكلية) في الفصل الدراسي الأول للطالب، في حالة عدم تحقيق هذا الشرط يلغى قبول الطالب.

على الطلبة الذين يقبلون بشروط خاصة أن يوقعوا على تعهد بعدم مسؤولية شبكة الجامعة تجاه الجهات الرسمية والجامعات والمعاهد الأخرى في حالة انتقالهم أو عدم معادلة شهادتهم الثانوية.

١ - الكليات والتخصصات الموجودة في شبكة الجامعة

كلية إدارة الأعمال

- ✻ بكالوريوس في الإدارة (١٣٢ ساعة معتمدة / ٤ سنوات)
- ✻ بكالوريوس في التسويق (١٣٢ ساعة معتمدة / ٤ سنوات)
- ✻ بكالوريوس في التمويل (١٣٢ ساعة معتمدة / ٤ سنوات)
- ✻ بكالوريوس في المحاسبة (١٣٢ ساعة معتمدة / ٤ سنوات)
- ✻ دبلوم في إدارة الأعمال (٧٢ ساعة معتمدة / سنتان)

كلية علوم وهندسة الحاسب الآلي

- ✻ بكالوريوس في علوم الحاسب الآلي (١٣٥ ساعة معتمدة / ٤ سنوات)
- ✻ بكالوريوس في هندسة الحاسب الآلي (١٦٤ ساعة معتمدة / ٥ سنوات)
- ✻ بكالوريوس في نظم المعلومات (١٣١ ساعة معتمدة / ٤ سنوات)
- ✻ دبلوم في تكنولوجيا المعلومات (٧٠ ساعة معتمدة / سنتان)

كلية طب الأسنان

- ✻ دكتور في طب وجراحة الأسنان (١٨٩ ساعة معتمدة / ٥ سنوات)

كلية الهندسة

- ✻ بكالوريوس في الهندسة الكهربائية / هندسة الكتر ونيات (١٦٥ ساعة معتمدة / ٥ سنوات)
- ✻ بكالوريوس في الهندسة الكهربائية / هندسة اتصالات (١٦٥ ساعة معتمدة / ٥ سنوات)
- ✻ بكالوريوس في هندسة المعدات الطبية (١٦٥ ساعة معتمدة / ٥ سنوات)
- ✻ بكالوريوس في الهندسة المعمارية (١٦٩ ساعة معتمدة / ٥ سنوات)
- ✻ بكالوريوس في التصميم الداخلي (١٣٤ ساعة معتمدة / ٤ سنوات)

كلية اللغات الأجنبية والترجمة

- ✻ بكالوريوس في اللغة الإنجليزية والترجمة (١٣٢ ساعة معتمدة / ٤ سنوات)
- ✻ بكالوريوس في الاتصال والترجمة (١٣٢ ساعة معتمدة / ٤ سنوات)

كلية الصيدلة والعلوم الصحية

- ✻ بكالوريوس في الصيدلة (١٥٠ ساعة معتمدة / ٤-٥ سنوات)

كلية التربية والعلوم الأساسية

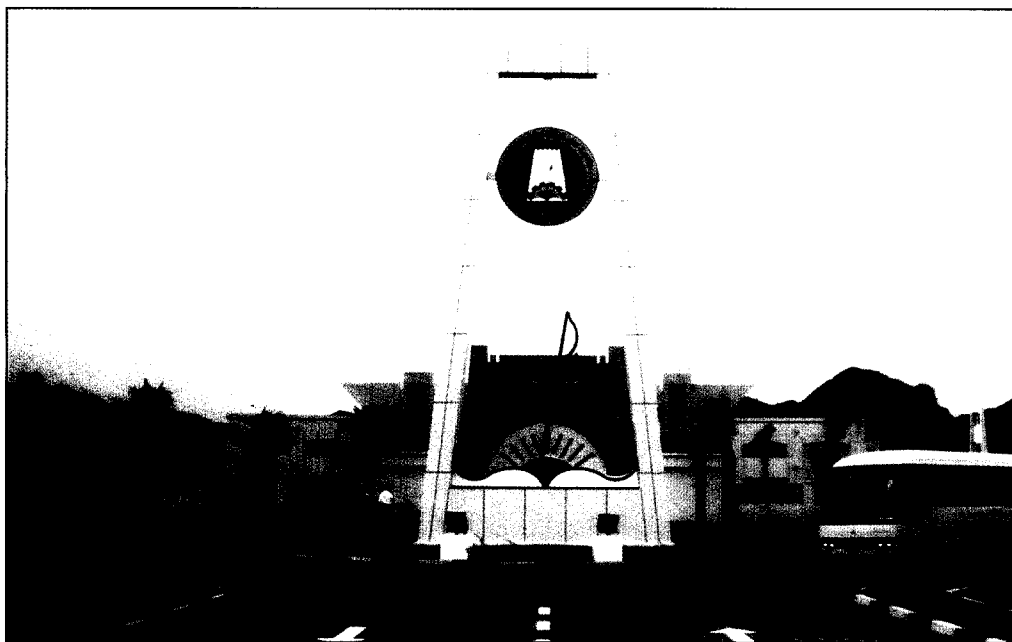
- ✻ بكالوريوس في اساليب وتقنيات التعليم تخصص إعداد معلم مادة (في اللغة العربية والدراسات الإسلامية) (١٣٢ س.م. / ٤ سنوات)
- ✻ بكالوريوس في اساليب وتقنيات التعليم تخصص إعداد معلم مادة (في الرياضيات والعلوم) (١٣٢ ساعة معتمدة / ٤ سنوات)
- ✻ بكالوريوس التربية في تدريس اللغة الانجليزية كلغة أجنبية (١٣٢ ساعة معتمدة / ٤ سنوات)
- ✻ بكالوريوس في تقنيات التعليم (١٣٢ ساعة معتمدة / ٤ سنوات)

كلية المعلومات والإعلام والعلاقات العامة

- ✻ بكالوريوس في الإعلام والعلاقات العامة (١٣٢ ساعة معتمدة / ٤ سنوات)

القبول والتسجيل

- ١- التخصصات الموجودة في شبكة الجامعة ٤٠
- ٢- قواعد القبول ٤١
 - إجراءات القبول العامة ٤١
 - الانتقال إلى شبكة الجامعة من جامعات أخرى ٤٢
 - تغيير التخصص ٤٣
- ٣- نظام الدراسة ٤٤
- ٤- الإرشاد الأكاديمي وتسجيل المساقات ٤٦
 - الإرشاد الأكاديمي ٤٦
 - تسجيل المساقات ٤٦
- ٥- الامتحانات ونظم التقويم ٤٨
- ٦- الإنذار بسبب الغياب ٥١
- ٧- الإنذار الأكاديمي ٥١
- ٨- متطلبات التخرج ٥١
- ٩- الدراسات المسائية ٥٢
- ١٠- الرسوم الدراسية واللوائح المالية ٥٢
- ١١- ترقيم المساقات ٥٣
- ١٢- توصيف مساقات متطلبات الجامعة ٥٤



القبول والتسجيل

القبول والتسجيل

وكالة التوظيف

١. تتضمن نشاطات الوكالة ورش عمل لتدريب الطلبة المتوقع تخرجهم من خلال تقسيمهم إلى مجموعات صغيرة، وتحتوي ورش العمل على:
 - استراتيجيات البحث عن الوظيفة.
 - كيفية كتابة السيرة الذاتية.
 - كيفية اجتياز المقابلات الشخصية من خلال عرض شرائط الفيديو المعدة لهذا الغرض.
٢. إقامة بعض الدورات التدريبية للخريجين الذين عندهم ضعف في أي جانب من جوانب المهارات، مثل: اللغة الإنجليزية أو الحاسب الآلي أو المعلومات الإدارية وغيرها.
٣. يعمل مركز التدريب والتعليم المستمر داخل شبكة الجامعة على إجراء اتفاقات تعاون مع بعض الشركات والمؤسسات يتم بموجبها توجيه المشاركين في الدورات التي يعقدها المركز إلى هذه الشركات والمؤسسات للحصول على التدريب العملي فيها، تحت إشراف المركز، إذا لزم الأمر.

- تحقيق رؤية شبكة الجامعة وفلسفتها التعليمية التي تنتهجها منذ نشأتها وحتى الآن في التلاحم مع سوق العمل من خلال كسر الحاجز بينهما.
- بناء أسس للفهم المتبادل بين شبكة الجامعة وسوق العمل لتوفير الاحتياجات المطلوبة من الخريجين في مختلف التخصصات التي تخدم السوق.
- بناء قاعدة تعليمية مطورة ترتبط مناهجها بسوق العمل والإنتاج لتتمكن من تلبية احتياجات السوق.
- توفير فرص تدريب للطلبة في المؤسسات والوزارات والشركات العاملة بالدولة وخارجها، ومن ثم توفير فرص عمل لهم بعد تخرجهم في نفس المؤسسات التي تعرفت على مناهجهم الأكاديمية وقدراتهم العلمية والعملية، ووفق نظم وآليات تقوم عليها الوكالة.
- إجراء اتصالات مستمرة، واستحداث علاقات جديدة وتوطيدها مع المؤسسات الرسمية ومؤسسات القطاع الخاص في دولة الإمارات العربية المتحدة بصفة خاصة ودول مجلس التعاون الخليجي بصفة عامة من أجل تحقيق التعاون المشترك.
- اختيار المكان المناسب لعمل الخريجين المرشحين، وفقا للسيرة الذاتية والتخصص المطلوب.
- تأهيل الخريجين قبل الالتحاق بالعمل:



معهد البيئة والمياه والطاقة

الرسالة

يسعى معهد البيئة والمياه والطاقة إلى أن يكون مركزاً للتميز والذي يعمل على كسر الحاجز بين شبكة جامعة عجمان للعلوم والتكنولوجيا وبين مجتمع الأعمال والفعاليات. كما يلبي المعهد حاجة دولة الإمارات العربية المتحدة والمنطقة بتقديم برامج تدريب وبحوث في مجالات البيئة والمياه والطاقة.

الأهداف

١. تفعيل معايير شبكة الجامعة في التدريس والبحث والتدريب والخبرات والممارسة.
 - في مجال التدريس: استحدث المعهد مساق البيئة والمياه والطاقة كمتطلب جامعة اختياري يطرح من خلال كلية الصيدلة والعلوم الصحية. كما يقوم المعهد بتدريس مساقات الجيولوجيا وأساسيات علم البيئة، و البيئة والتلوث لطلاب كلية التربية والعلوم الأساسية.
 - في مجال البحوث: يقوم المعهد حالياً بدراسة موارد المياه في الامارات الشمالية من دولة الإمارات العربية المتحدة.
 - في مجال التدريب: عقد المعهد دورات تدريبية تخصصية للعاملين في مجالي البيئة والمياه في إمارة أبوظبي والعين ودبي منذ إنشائه وحتى الآن.
 - في مجال الخبرات: يوجد بالمعهد خبيران في مجال الموارد المائية ذوا خبرة طويلة بموارد المياه في دولة الإمارات والمنطقة العربية.
٢. يستضيف المعهد كرسي اليونسكو حول البيئة وموارد المياه في منطقة الخليج العربي منذ نوفمبر ٢٠٠٣ م.



بيئة الإبداع الطبية

الرسالة

بيئة الإبداع الطبية هي ترجمة واقعية ومباشرة لرؤية شبكة جامعة عجمان للعلوم والتكنولوجيا في كسر الحاجز بين الوسط الأكاديمي بما فيه من برامج دراسية وبحثية وتدريبية وخبرات وممارسة وبين الفعاليات بما فيها من مستشفيات ومصانع وتطبيقات عملية مختلفة .

تضم بيئة الإبداع الطبية جميع الأنشطة الأكاديمية والبحثية والتدريبية والتطبيقية ذات العلاقة بالمجالات الصحية والطبية بهدف تكامل الإمكانيات والتسهيلات لتقديم أفضل نتائج ممكنة للمستخدمين والمستفيدين .

الأهداف

- توفير قواعد ومصادر المعلومات عبر شبكة الجامعة مما يثري العملية التعليمية والبحثية بالإضافة إلى تسهيل تبادل المعلومات والنقاش والحوار عبر الإنترنت وتوفير البنية التحتية للتدريس والبحث والتدريب والاستشارات والممارسة في مجالات الصحة والطب من خلال شبكة تضم الخبرات والإمكانات ولها قواعد معلومات متوافرة للجميع . وإجراء بحوث تطبيقية بيئية مشتركة بين التخصصات الطبية والصحية في إطار دراسة الحاجات الفعلية للمجتمع وحلها بشكل تكاملي .

- توفير أماكن لتدريب طلبة شبكة الجامعة في مواقع العمل (المستشفيات، المصانع، الصيدليات...) لصقل مهاراتهم وتغذية المجتمع بعناصر متميزة قادرة على الإنتاج والإبداع .

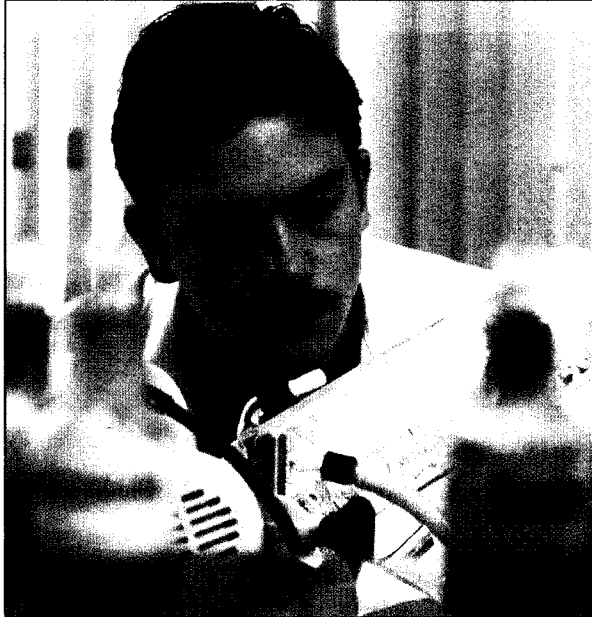
- توفير برامج تدريبية وبرامج تعليم مستمر للمجتمع .

- تدريب أعضاء هيئة التدريس وكافة المنتسبين للبيئة الطبية للوصول إلى التناغم المطلوب في الأفكار ومعدلات الأداء .

- تطبيق فلسفة تعدد الاستخدامات والوظائف والأهداف . حيث يتم استخدام المختبرات والإمكانات البشرية والبحثية بشكل متعدد وهذا يوفر الكثير من الجهد والتكلفة ويؤدي إلى التوصل إلى أفضل النتائج .

- التعاون مع المستشفيات والمصانع والمؤسسات ذات الصلة واعتبارها كأماكن لتدريس الجزء العملي والتطبيقي من الخطط الدراسية مما يعمل على تعدد المدارس والخبرات .

- تنظيم ندوات تقاربية في إطار خطة متكاملة تهدف إلى تقديم الفكرة إلى الجميع وقياس ردود الأفعال ومن ثم التعديل والتطوير المطلوب في الفترة التجريبية وصولاً إلى التميز في مرحلة التطبيق الكامل .



بيت الحكماء والنخب

رسالة بيت الحكماء والنخب

بيت الحكماء والنخب هو مبادرة حضارية تمثل أحد ملامح مشروع نهوضي يقدمه معالي الدكتور سعيد عبد الله سلمان انطلاقاً من استراتيجية شبكة جامعة عجمان للعلوم والتكنولوجيا والتي ترمي إلى توفير البيئة الملائمة لتوظيف كل الإمكانيات والطاقات في داخل الوطن العربي وخارجه لحل مشكلات الأمة والرفق بها إلى أفاق التقدم والازدهار في كافة المجالات الاقتصادية والاجتماعية والعلمية والسياسية وغيرها. ويضم بيت النخب الكوادر العربية المتميزة من داخل وخارج الوطن لتعمل سوياً . من خلال التواصل والحوار والتعاون المنهجي باستخدام التقنيات الحديثة. لرصد ما تحتاجه الأمة وتوفيره من خلال النهوض بمبادئ التعليم والبحث والتدريب والخبرات والممارسة.

أهداف بيت الحكماء والنخب

- ينبع هذا المشروع الحضاري من الرؤية الشاملة لشبكة جامعة عجمان للعلوم والتكنولوجيا بأبعادها الثلاثة التعليمية والمعلوماتية والاستثمارية والتي تسعى إلى المساهمة في نهوض الأمة في كافة المجالات التقنية والعلمية والاقتصادية والاجتماعية وغيرها.

- رغم أن الأمة تزخر برصيد هائل من الإمكانيات البشرية والمادية والفكرية إلا أنها تعاني من تعثر في مجالات عدة ويرجع ذلك إلى نزيف العقول وغياب بيئة الإبداع الضرورية لإبراز المنجزات بالشكل الذي يساهم في تقدم الأمة .

- يهدف هذا المشروع إلى تكوين بيت يضم النخب المختارة من داخل وخارج الوطن والتي تشترك في حمل هموم الوطن على كاهلها وحلها من خلال النهوض بالتعليم والبحث والتدريب وتبادل الخبرات والممارسة عبر توظيف الإمكانيات المتوفرة محلياً وعالمياً.

- ترتبط النخب وتتواصل فيما بينها باستخدام وسائل الاتصال الحديثة مثل الإنترنت والتواصل عن بعد وغيرها والتي تقع داخل منطقة السايبر التي تتبناها شبكة جامعة عجمان للعلوم والتكنولوجيا.

- تعمل هذه التجمعات النخبوية في التخصصات المختلفة على التكامل فيما بينها وبين مجتمع الفعاليات في الأمة لرصد مشاكلها وحلها استناداً إلى دراسات علمية رصينة في إطار بيئة الإبداع الشاملة.

- الوصول إلى التكامل بين الجانب الفكري الأكاديمي وجانب الأعمال والصناعة والتطبيق والتي تضمن إمداد المجتمع بالقوى العاملة الموهوبة والمبدعة التي تحافظ على أعلى وأرقى معدلات الإنتاج كما وكيفا.

- تحديد البرامج التعليمية والتدريبية والتعليم المستمر والتي تستخدم بيت الحكماء والنخب كمصدر وتغذية بالمزيد من العناصر المبدعة على الدوام.

- تنظيم ندوات تقاربية لشرائح الأمة لشرح مشروعاتها والوصول إلى التناغم في الأفكار.

- عمل قاعدة بيانات بالمشاكل الفعلية التي يعاني منها المجتمع والوسائل المقترحة لحلها والمحاولات السابقة لحلها ونتائجها تحديد المشاريع البحثية والتطبيقية حسب أهميتها والحاجة إليها وتوافر عناصر تنفيذها مالياً وبشرياً.



مركز تكنو سفير للتميز

في مؤسسات الدولة والمجتمع، والاهتمام بمختلف برامج التعاون البحثي بين الجامعات ومؤسسات المجتمع، التي تدور حول دراسات مشكلات واقعية، والسعي لإيجاد حلول لها.

٦- إرساء دعائم التعاون والتنسيق البحثي مع مؤسسات الدولة والمجتمع، بما يكفل توجيه البحث العلمي نحو خدمة المجتمع، وإيصال نتائجه إلى كل المهتمين به.

٧- تكوين فرق بحثية تضم باحثين من كل التخصصات ذات العلاقة بمشاريع الأبحاث، والانفتاح على التجارب العالمية الرائدة في مجال البحث وإنشاء علاقات تعاون مع مراكز البحوث والدراسات العلمية وتوفير الأطر الملائمة لنقل التقنيات.

٨- تقديم دراسات لأساليب وسياسات تنمية الموارد البشرية في الدولة والمجتمع.

٩- تقديم الدراسات الإستراتيجية، وجمع البيانات في المجالات المختلفة، وتحليلها ونشرها.

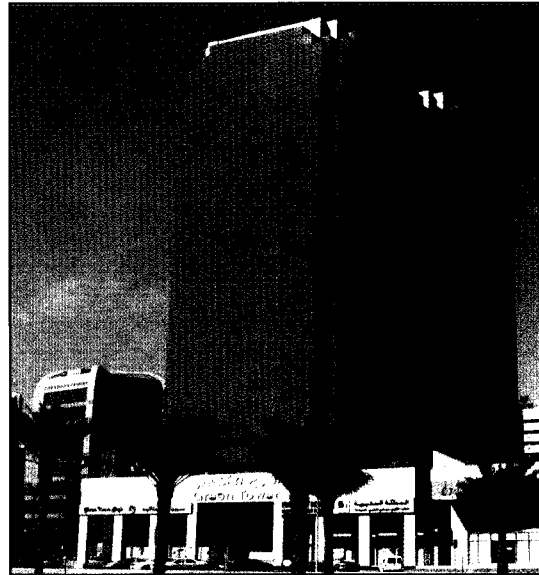
١٠- نشر التطبيقات الممكنة للبحوث العلمية في مختلف التخصصات، وتفسيرها، وتحقيق الاستفادة منها.

يسعى مركز تكنو سفير للتميز إلى الإفادة من البرامج والتخصصات العلمية التي تطرحها شبكة جامعة عجمان للعلوم والتكنولوجيا، والتي تتصل مباشرة باحتياجات المجتمع ومن تلك التخصصات: الهندسة، طب الأسنان، الصيدلة والعلوم الصحية، الحاسب الآلي، اللغات الأجنبية والترجمة، المعلومات والإعلام والعلاقات العامة، وإدارة الأعمال والتربية والعلوم الأساسية.

ووفقا لاستراتيجية شبكة الجامعة توضع إمكانات الكليات الثماني كافة في متناول المجتمع المحيط بها مؤسسات وأفراد.

إن إنشاء مركز تكنو سفير للتميز ينبثق من الرؤية الشاملة لشبكة جامعة عجمان للعلوم والتكنولوجيا، بوصفها بيت خبرة، يسعى إلى الإسهام في خدمة المجتمع في الميادين الاجتماعية والاقتصادية والفكرية، ويعمل المركز كمراة تعكس الأنشطة الأكاديمية لشبكة الجامعة في المجتمع، وهو أداة إجرائية لكسر الحواجز القائمة بين مؤسسات التعليم العالي ومجتمع الفعاليات المحيط بها، في إطار علاقات قائمة على المصالح المتبادلة بين الطرفين، والمركز هو الجهة المسؤولة عن تنظيم كل الأنشطة الخارجية لشبكة الجامعة في البيئتين المحلية والخليجية المحيطتين بها، بما تضمنه من تفاعل مع الشركات والمؤسسات المختلفة في المجالات الآتية:

- ١- تنظيم دورات تدريبية تخصصية في مجالات مختلفة، يشرف عليها مدربون خبراء من ذوي الاختصاص، يستخدمون مواد وبرامج تدريبية ترعى التباينات الثقافية والاستعدادات المعرفية المختلفة، وتلبي احتياجات سوق العمل باستخدام أحدث التقنيات.
- ٢- تقديم خدمات رقمية للمؤسسات في مجال الإنتاج، والشبكات والبحوث، والتدريب، والتعليم بمنهج علمي يعكس روح العصر.
- ٣- إقامة علاقات فعالة مع المؤسسات وجهات الأعمال في مؤسسات الدولة والمجتمع، لتعرف احتياجات المجتمع، وإعداد الخطط اللازمة للوفاء بها.
- ٤- تقديم الخدمات الاستشارية في مجال تطبيق التقنيات، وتطوير المعارف، وتنمية المهارات في المجالات والتخصصات كافة، وربط الأنشطة التعليمية والبحثية بتحقيق الأهداف في مختلف المجالات.
- ٥- طرح برامج التعليم والتدريب المستمر التي تستهدف التطوير الدائم لقوى العمل



مؤسسة (سمارت سوبر ستور) :

يأتي إنشاء هذه المؤسسة لتوفير الخدمات الأساسية التي يحتاجها الطلبة داخل الحرم الجامعي . فتوفر هذه المؤسسة تجهيزات مكتبية وكتب عربية واجنية وقرطاسية وبرمجيات حاسب الي وتصوير وطباعة وتجليد إضافة إلى تقديم خدمات التصوير الضوئي الأبيض والأسود والملون . وبعدة قياسات من خلال استخدام أحدث الآلات الموجودة في مجال التصوير .

كما توفر هذه المؤسسة لطلبتها الكتب الدراسية المقررة لجميع التخصصات وباللغتين العربية والإنجليزية وبأسعار تقل عن مثيلاتها في السوق المحلي حيث يتم شراء الكتب من الناشر مباشرة وهذا يؤدي إلى تخفيض التكلفة وبالتالي توفيرها بأثمان مناسبة .

- تدقيق الشهادات المرضية التي ترد للعيادات من قبل الطلبة للحصول على عذر عند الغياب عن المحاضرات أو الامتحانات .

- التوعية الصحية المستمرة للطلبة كالتغذية الصحي والاهتمام بالنظافة الشخصية والحصول على قدر من الراحة والنوم لمزيد من الاستيعاب والتفوق .

التنقلات:

تقوم إحدى مؤسسات شبكة الجامعة بنقل الطلبة إذ تمتلك المؤسسة أسطولاً كبيراً من الحافلات المختلفة الأحجام المزودة بكل وسائل الراحة . ويقوم على خدمتها طاقم من السائقين والمشرفين الأكفاء والمتميزين ، للنقل المريح للطلبة من مقر إقامتهم (دبي ، الشارقة ، عجمان) لحضور محاضراتهم في مباني شبكة الجامعة بإمارة عجمان . وتقوم المؤسسة بتسيير أكثر من ٥٠ رحلة يوميا لهذا الغرض . ونقل الطلبة إلى الأسواق وتأمين مواصلاتهم إلى أماكن الأنشطة خارج شبكة الجامعة كالزيارات والرحلات العلمية والترفيهية وحضور الندوات والمحاضرات والمؤتمرات الطلابية ، وتتقاضى المؤسسة رسوما رمزية لقاء هذه الخدمات التي تنقسم بالتميز والجودة . وتخصص المؤسسة حافلتين للطوارئ لخدمة طالبات السكن الجامعي .

مزود بمكتبة دينية ومما تمتاز به المساكن :

- جميع غرف الطلاب والطالبات مصممة ومجهزة على أحدث النظم ومؤثثة بأجود أنواع الأثاث بما يوفر الراحة التامة للمقيمين .

- الإشراف على الطلبة مواصل على مدار الـ ٢٤ ساعة من خلال المشرفين المؤهلين .

- توفير وسائل نقل مريحة من المساكن لأماكن الدراسة والتسوق والرحلات وجميع الأنشطة خارج السكن .

العيادات الصحية:

تتوفر وحدات طبية في كل من من مقار شبكة الجامعة حيث يتألف طاقمها من (٤) أطباء و (١٤) ممرض وممرضة ، وتقوم هذه الوحدات بالرعاية الصحية وتوفير الكشف الطبي وعلاج المرضى إضافة إلى العديد من المهام منها :

- إرشادات عامة للمستجدين من الطلبة عند عمل الفحص الطبي .

- عمل ملف لكل طالب وطالبة عند تسجيله بالجامعة يشمل بياناتهم الشخصية والتاريخ المرضي وتدوين كل الحالات المرضية التي قد تصيبهم أثناء العام الدراسي مع سجل مواعيد الزيارة والعلاجات التي تصرف لهم وأية ملاحظات أخرى .



رابعاً: الخدمات الطلابية

تقوم عمادة شؤون الطلبة بمتابعة كافة الخدمات التي تقدمها الجامعة لطلبتها والإشراف عليها مثل: الإسكان الطلابي، المواصلات، الرعاية الصحية، مطاعم الطلبة، المساجد، مكاتب الخدمات الأخرى.

مساكن الطلبة:

انطلاقاً من رؤية وفلسفة معالي رئيس شبكة الجامعة في توفير كل ما يؤدي إلى إنجاح العملية التعليمية وحرصاً على راحة الطلبة فقد تم تأسيس مؤسسة مستقلة تعنى بتوفير مساكن مريحة للطلبة تحتوي على جميع المرافق مثل: المطاعم التي تقدم ثلاث وجبات يومياً، (الكوفي شوب)، والإنترنت، (الميني ماركت)، والنادي الصحي بأسعار رمزية، إضافة إلى خدمات مجانية: (كالماء والكهرباء وخدمات الصيانة والنظافة وصالات تلفزيونية وغرف للمذاكرة ومكتب للثقافة العامة مزودة بالكتب الشيقة والصحف اليومية إضافة إلى صالة ألعاب الشطرنج والتنس). كما سيتم توفير ملاعب لممارسة الرياضة ومسبح في كل من موقعي السكن بالنعيمية والحرف، كما يوجد مسجد للصلاة أيضاً

(الثقافية الاجتماعية الرياضية) العنصر الأساس الذي يدخل في نسج علاقة الطالب بالجامعة والمجتمع لذلك فإن الجامعة تحرص في بداية كل عام دراسي على أن ينتخب الطلبة عدد من زملائهم لتمثيل هذه الجمعيات الثلاث لتساهم برفد الأنشطة والكشف عن الميول والمواهب لدى الطلبة وتوظيفها وإبرازها مما يفتح المجال للطلبة المتميزين لصقل إبداعاتهم ومواهبهم في الحقول الأدبية والعلمية والفنية حيث تسعى الجمعيات الطلابية لتحقيق مجموعة من الأهداف منها:

- تحقيق الألفة والتعاون بين أفراد الأسرة الجامعية.
- تشجيع الأنشطة الثقافية والاجتماعية والرياضية والفنية وتنظيمها وإيجاد الوسائل والسبل لتطويرها.
- توثيق الصلة بين الجمعيات ومثيلاتها في الجامعات الأخرى.
- تنمية روح العمل الجماعي.
- تشجيع العمل التطوعي وتنمية روح المسؤولية.
- العمل على بناء شخصية الطالب الإيجابية والفعالة ضمن المجتمع.

- تنظيم المسابقات الثقافية لإذكاء روح التنافس بين الطلبة.
- إصدار النشرات الإعلامية ومجلات الحائط.
- إقامة المهرجانات لاكتشاف مواهب الطلبة وإبداعاتهم.

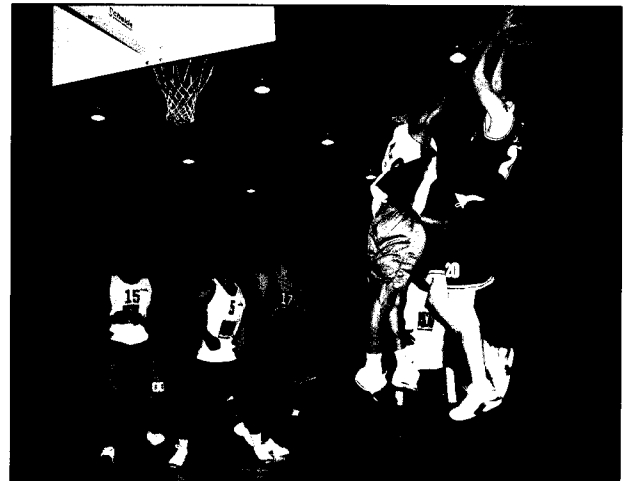
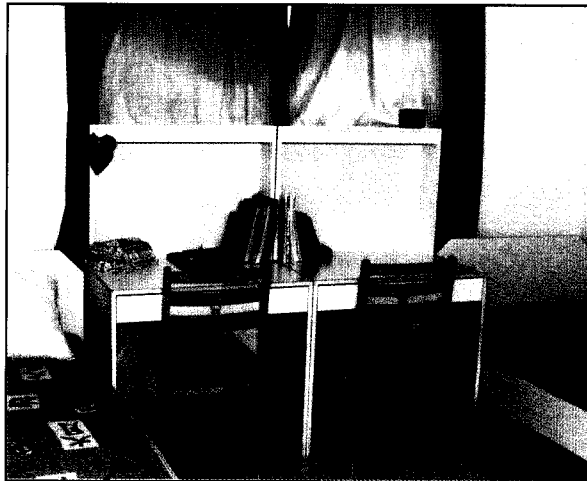
ثالثاً: النشاط الرياضي

الرياضة أحد أهم أوجه الأنشطة في شبكة الجامعة لما لها من تأثير فعال في تكامل بناء الإنسان من الناحيتين البدنية والعقلية، وبزاولها الطلبة في أوقات فراغهم، وهي بالإضافة إلى ذلك تساعد الطالب على شحذ طاقاته الكامنة، واكتشاف القدرات والمهارات المختلفة لديه.

لذا أنشأت شبكة الجامعة عدة ملاعب فضلاً عن حوض للسباحة وصالة رياضية مجهزة بالأدوات الرياضية ومن هذه الألعاب كرة القدم (صالات) كرة السلة، كرة الطائرة، كرة الطاولة، الريشة الطائرة، الشطرنج، السباحة، البلياردو، بالإضافة إلى كمال الأجسام واللياقة البدنية والكاراته.

الجمعيات الطلابية:

تعتبر الجمعيات الطلابية بتشكيلاتها المختلفة



عمادة شؤون الطلبة

تقوم عمادة شؤون الطلبة بدور مساند للعملية التعليمية التي تجري داخل الحرم الجامعي من خلال المساهمة في صقل شخصية الطالب عبر حزمة من الأنشطة التي تلبي ميوله واهتماماته، فالحياة الجامعية لا تقتصر على ما يعطى للطالب من محاضرات بل تتعداها لتشمل ممارسة الهوايات وتنمية المواهب التي تبرز شخصية الطالب وتعمل على ملء وقته بكل ما هو مفيد وتدرج الأهداف الاستراتيجية للأنشطة الطلابية فيما يأتي:

- ١- دمج الطالب بالمجتمع المحلي عبر الأنشطة المختلفة.
- ٢- تنمية شخصية الطالب وصقلها وإغنائها بالقيم والمبادئ والأخلاق السامية.
- ٣- تكوين شخصية مستقلة ومتميزة لطالب الجامعة يحمل رؤيتها وفلسفتها في الحياة والمجتمع.
- ٤- استكشاف مواهب الطلبة وإبداعاتهم وتنميتها.
- ٥- تحقيق الأهداف العلمية التعليمية من خلال النشاطات العلمية والعملية التي توفر للطالب الخبرة الميدانية قبل انطلاقه إلى سوق العمل.

الأنشطة الطلابية:

تولي عمادة شؤون الطلبة اهتماماً كبيراً بالأنشطة الطلابية وتوفير كل ما من شأنه أن يخدم الارتقاء بالأنشطة الاجتماعية والثقافية والرياضية والفنية والأدبية والفكرية والتربوية والترفيهية. وتحرص عمادة شؤون الطلبة من خلال طاقمها المتخصص بكافة المجالات على تفعيل الأنشطة في المناسبات والأعياد الدينية والوطنية وفترات المعارض العلمية التي تقام على أرض الدولة، وفي المناسبات الخاصة بشبكة الجامعة حيث يتحول منتسبو عمادة شؤون الطلبة إلى ورش عمل يومية سعياً من شبكة الجامعة لبناء شخصية الطالب وإغنائها.

ومع تزايد أعداد الطلبة والتوسع المطرد للكليات في كل عام يجري توسيع وتطوير حقول الأنشطة الطلابية بما يتناسب والتطور البنيوي لشبكة الجامعة، وتتمحور هذه الأنشطة على الشكل الآتي:

أولاً: النشاط الاجتماعي

تسعى عمادة شؤون الطلبة إلى توثيق العلاقات الاجتماعية بين الطلاب بعضهم ببعض من ناحية، وبينهم وبين إدارة شبكة الجامعة والهيئة التدريسية فيها من ناحية أخرى. إضافة إلى توثيق الروابط الاجتماعية بين شبكة الجامعة والمجتمع المحلي وذلك عن طريق عدد من الأنشطة الاجتماعية منها:

- حفلات التعارف.
- الرحلات الترفيهية.
- الرحلات العلمية.
- الندوات.
- العمل التطوعي.
- رحلات الحج والعمرة.

كما تعنى العمادة بمجموعة من الأنشطة الاجتماعية التي تتم متابعتها بشكل دائم ومنهجي منها:

- مساعدة الطالب على الاندماج والتكيف مع الحياة الجامعية.
- الحرص على متابعة الاتصالات واللقاءات مع أولياء أمور الطلبة وتزويدهم بكافة المعلومات التي يحتاجونها.
- التعرف على المشكلات التي تواجه الطلبة وإيجاد

الحلول المناسبة لها.

- استطلاع آراء الطلبة المتعلقة بكافة الشؤون الدراسية وتبني الصحيح منها ونقلها إلى الجهات المعنية.
- مساعدة الطلبة الجدد في عملية التسجيل والإرشاد والإحاطة باستفساراتهم بالتنسيق مع عمادة القبول والتسجيل.
- متابعة مفقودات الطلبة وتسليمها لأصحابها.
- إصدار شهادات حسن السيرة والسلوك.
- الإرشاد النفسي والاجتماعي.

ثانياً: النشاط الثقافي

يحتل النشاط الثقافي مكانة خاصة بوصفه عنصراً مهماً من عناصر الحياة الثقافية لدى الطلبة كما تهتم العمادة بالعمل، من جهة أخرى على تقديم التسهيلات التي من شأنها أن تدفع نحو مزيد من التفاعل بين الطلبة والمجتمع ومن هذه الأنشطة:

- تنظيم المحاضرات الثقافية والدينية والدورات والندوات الفكرية والأمسيات الشعرية والأدبية.
- إقامة المعارض المختلفة وعرض الأفلام الوثائقية والمسرحيات.



وصف المساقات

اللغة الإنجليزية (١) ٦٠٠١٠١

يهدف المساق متطلب جامعة يحتوي على نشاطات لتنمية المهارات الأربع: الاستماع، المخاطبة، القراءة، والكتابة. كما يدرس الطلبة نشاطات تعزيزية تمكنهم من التواصل بصورة طبيعية بعيدا عن المفردات المتخصصة. وعند اكتمال دراسة هذا المساق يكون الطالب قد بلغ المستوى المتوسط.

اللغة الإنجليزية (٢) (الطلبة الحاسب الألي) ٦٠٠١٠٢

يهدف هذا المساق إلى تزويد الطلبة بالمفردات المتخصصة في مجال الحاسب الألي وكيفية تكوين هذه المفردات. ويركز المساق على أساليب القراءة وتنمية قدرات الطالب للتواصل في استعمال اللغة الإنجليزية في مجال الحاسب الألي كما يساعد في الكتابة وكتابة التقارير الفنية.

اللغة الإنجليزية (٢) (الطلبة الإدارة) ٦٠٠١٠٢

يهدف هذا المساق إلى تمكين طلبة الإدارة من رفع كفاياتهم وإثرائها بهدف تيسير دراسة تخصصهم. كما يعزز مهارات اللغة مثل الاستماع والمخاطبة والقراءة والكتابة ليكون تواصلهم تلقائيا وطبيعيا. ويهدف المساق أيضا إلى تمكين الطلبة من اكتساب المفردات الخاصة بتخصصهم.

اللغة الإنجليزية (٢) (الطلبة اللغات الأجنبية والترجمة) ٦٠٠١٠٢

يهدف هذا المساق لتنمية كفايات الطلبة التواصلية بناء على الموقف التواصلية والغرض من التواصل وأدوار المشاركين في عملية التواصل نفسها. كما ينمي المساق المهارات الأربع وهي: الاستماع والمخاطبة والقراءة والكتابة بصورة طبيعية وتكاملية. كما يسعى المساق لتحسين وتطوير النطق السليم لدى الطلبة.

اللغة الإنجليزية (٢) (الطلبة طب الأسنان) ٦٠٠١٠٢

يهدف المساق إلى تطوير المهارات اللغوية مثل الاستماع والمخاطبة والقراءة والكتابة. كما يهيئ المساق الطلبة للتعبير عن أنفسهم والاستماع للمهنيين وطرح الأسئلة عليهم وتدوين المذكرات والقيام بتشجيع مرضاهم وغيرها من متطلبات العمل. بالإضافة إلى ذلك فإن المساق يركز على قراءة النصوص العلمية والجوانب اللغوية ذات الصلة باستخدام اللغة في مجال طب الأسنان.

اللغة الإنجليزية (٢) (الطلبة الهندسة) ٦٠٠١٠٢

يهدف هذا المساق إلى زيادة الكفايات التواصلية لدى الطلبة عن طريق تعزيز ورفع هذه الكفايات لتيسير الدراسة لهم في مجال تخصصهم. ويعزز المساق المهارات اللغوية مثل الاستماع والمخاطبة والقراءة والكتابة حتى يكون تواصلهم تلقائيا وطبيعيا. ويسعى المساق لتمكين الطلبة من اكتساب المفردات والتراكيب المستخدمة في المجال الهندسي.

اللغة الإنجليزية (٢) (الطلبة الصيدلة) ٦٠٠١٠٢

يهدف المساق إلى تطوير قدرات طلبة الصيدلة في اللغة الإنجليزية عن طريق اكتسابهم للمفاهيم والمصطلحات المتخصصة في مجال الصيدلة. كما يسعى المساق لبناء الثقة بالنفس والمشاركة الإيجابية لدى الطلبة.

اللغة الفرنسية (١) ٦٠٠٢٩٢

يقوم هذا المساق بتعريف الطلبة بأساسيات اللغة الفرنسية. ويؤدهم بالمفردات الأساسية والقواعد لمساعدتهم على التواصل بطريقة ميسرة.

اللغة الفرنسية (٢) ٦٠٠٤٩٢

يطور هذا المساق أكثر الكفايات التواصلية في اللغة الفرنسية للطلبة. كما يعرف الطلبة بالثقافة والحضارة الفرنسية.

اللغة الفرنسية (٣) ٦٠٠٤٩٣

هذا المساق امتداد لمساق اللغة الفرنسية (٢) حيث يناقش فيه الطلبة مواضيع متنوعة ويتعلمون كيفية حكاية قصة وتقديم تقرير وإبداء الرأي وغير ذلك. بالإضافة إلى الاستمرار في التعريف بالثقافة والحضارة الفرنسية.

مركز اللغات

رسالة المركز

إن مركز اللغات هو وحدة للخدمات اللغوية. ومهمته هي تقديم خدمات لطلبة الجامعة في مجال اللغة الإنجليزية للأغراض العامة والخاصة بالإضافة إلى اللغة الفرنسية وغيرها. والمهمة الثانية، هي تقديم خدمات لغوية مختلفة لمجتمع دولة الإمارات العربية المتحدة: القطاع الحكومي وغير الحكومي. وبهذا يتمكن المركز من كسر الحاجز بين جامعة عجمان للعلوم والتكنولوجيا والمجتمع.

أهداف المركز

يسعى مركز اللغات لتحقيق الأهداف الآتية:

- ١- تصميم وعقد دورات في اللغات الأجنبية واللغة العربية لطلبة جامعة عجمان بغرض رفع كفاياتهم التواصلية.
- ٢- تصميم وعقد دورات في اللغة الإنجليزية للأغراض الخاصة لتلبية الحاجات الفردية والمهنية وذلك بالتعاون مع كليات الجامعة الأخرى.
- ٣- تصميم وعقد دورات لموظفي الجامعة بغرض تنمية كفاياتهم المهنية في مجال اللغات لتمكينهم من أداء أدوارهم بفعالية.
- ٤- تصميم وعقد دورات خاصة لقطاعات مجتمع دولة الإمارات العربية المتحدة: الحكومية وقطاع الأعمال وقطاعات المجتمع الأخرى للمساهمة في تحقيق فلسفة الجامعة لتصبح مركزاً للتميز.
- ٥- القيام ببحوث لغوية تطبيقية في مجال اكتساب اللغات الأجنبية، وتعلمها وتدريبها بهدف تيسير تنمية الكفايات التواصلية وطرق التدريس.
- ٦- تعزيز العلاقات مع مراكز اللغات الأخرى، وشعب اللغات، والمجلس البريطاني والمركز الثقافي الأمريكي والمؤسسات الأخرى ذات الصلة لتبادل الآراء والمعلومات والخبرات والبحوث مما يساهم في تطوير مركز اللغات ليصبح أحد المراكز الرائدة في المنطقة.

ولتحقيق تلك الأهداف فإن مركز اللغات يستقطب أعضاء هيئة تدريس متميزين وذوي خبرة كبيرة، كما أن المركز يستخدم مختبرات الوسائط المتعددة ويشرك المستفيدين والفئات المستهدفة أثناء تصميم البرامج.

اللغات المستهدفة:

- اللغة الإنجليزية
- اللغة العربية للناطقين بغيرها
- اللغة الفرنسية

الجهات المستفيدة من الدورات:

- ١- المؤسسات الحكومية
- ٢- القطاع الخاص: حيث يتم تصميم دورات مثل:
 - اللغة الإنجليزية في مجال السياحة
 - اللغة الإنجليزية في أعمال السكرتارية
 - اللغة الإنجليزية في مجال البنوك
 - اللغة الإنجليزية في الإدارة
 - مهارات التواصل في العلاقات العامة
 - اللغة العربية لرجال الأعمال

٣- قطاع الطلبة:

- دورات متنوعة ومتعددة حسب مستواهم واحتياجاتهم.

٤- الدبلوماسيون:

- اللغة الإنجليزية للدبلوماسيين
- اللغة العربية للدبلوماسيين

٥- القطاع النسوي:

- دورات خاصة في كافة المستويات.



مركز التدريب والتعليم المستمر

يعمل مركز التدريب والتعليم المستمر على تحقيق رؤية الجامعة حيث يساهم في كسر الحاجز بين الوسط الأكاديمي وقطاعات الأعمال بما فيها سوق العمل. وتشتمل برامج التدريب والتعليم المستمر على محاور ثلاثة.

- تدريب الطلبة.
- تدريب أعضاء هيئة التدريس والعاملين.
- تدريب قطاعات المجتمع.

تدريب الطلبة:

تشتمل فلسفة شبكة جامعة عجمان للعلوم والتكنولوجيا على ضرورة انخراط الطلبة في برامج التدريب أثناء دراستهم بالجامعة مما يعطي الطلبة الفرصة لتطبيق ما تعلموه بالإضافة إلى الانخراط في بيئة الأعمال والاستعداد لها منذ مراحل مبكرة. ولذلك فإن التدريب يعد جزءاً لا يتجزأ من الخطط الدراسية بالجامعة ويتم احتسابه كساعات معتمدة. ويقوم المركز بتعميق أو اصر التعاون مع أماكن تدريب متميزة داخل الدولة وخارجها كما يقوم بتنظيم البرامج التدريبية للطلبة ومتابعتها وتقييمها بالتعاون مع كليات الجامعة. ونتيجة لهذه السياسة التدريبية المتميزة فإن كثيراً من طلبة وخريجي الجامعة يحصلون على فرص عمل في أماكن تدريبهم وفي جهات أخرى.

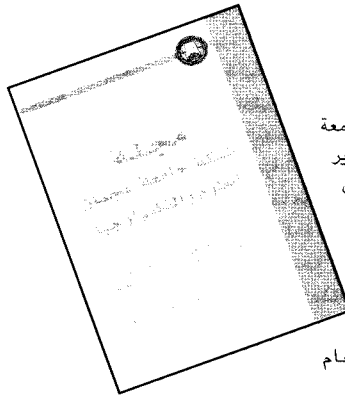
تدريب أعضاء هيئة التدريس العاملين بالجامعة:

يشرف المركز على برامج تنمية مهارات أعضاء هيئة التدريس والعاملين بما يؤدي إلى تحقيق رؤية الجامعة في تميز الأداء وتطويره المستمر. ويتعاون المركز مع جميع وحدات الجامعة لتحديد الاحتياجات التدريبية ومن ثم وضع الجداول الزمنية لتنفيذها. وتشتمل برامج تنمية مهارات أعضاء هيئة التدريس على أساليب التعليم والتعلم ومهارات الحاسب الآلي والبحث العلمي. بينما تشتمل برامج تنمية مهارات العاملين على مهارات اللغة الإنجليزية والحاسب الآلي والمهارات الإدارية والتقنية في مجال التخصص.

تدريب قطاعات المجتمع:

تقدم الجامعة العديد من برامج التدريب والتعليم المستمر لقطاعات مختلفة من المجتمع. ويتم تحديد تلك البرامج وتصميمها بناء على حاجة قطاعات المجتمع من وزارات ومؤسسات وأفراد. وتقوم الجامعة بتقديم برامج متميزة استناداً إلى ما لديها من ثروات علمية وبشرية مؤهلة. ويقوم المركز بالتقويم والتطوير المستمر بما يقدمه من برامج بناء على قياس آراء المستفيدين ونتيجة البرامج.

دورية شبكة الجامعة



إن للدورية التي تصدرها الجامعة هدفين أساسيين: أولهما: توفير المجال لأعضاء هيئة التدريس في شبكة الجامعة وفي الجامعات الأخرى لنشر أبحاثهم ودراساتهم، وثانيهما: أن تعكس فلسفة الجامعة ورويتها الاستراتيجية للتعليم بشكل عام وللتنظيم العالي بشكل خاص.

وقد بدأت شبكة جامعة عجمان للعلوم والتكنولوجيا بإصدار هذه الدورية في يوليو ١٩٩٥م بمعدل عدد واحد سنوياً حتى عام ١٩٩٧م حيث ارتأت هيئة التحرير بسبب الإقبال المتزايد على النشر فيها إلى زيادة عدد الإصدارات ليصبح عديدين سنوياً ابتداءً من العام ١٩٩٨م. وتضم هذه الدورية الأبواب التالية:

- ١- مقالات علمية عامة.
- ٢- مقالات مترجمة.
- ٣- مراجعة لبعض الكتب.
- ٤- أبحاث تخصصية محكمة.

إن جميع ما ينشر في الدورية يخضع لمعايير خاصة قبل أن ينشر، وتحدد هيئة التحرير هذه المعايير بالنسبة للدراسات التي تنضوي تحت أحد الأبواب الثلاثة الأولى. أما بالنسبة للأبحاث المتخصصة فإنها ترسل إلى محكمين متخصصين في المواد ذات العلاقة. وتنتشر هذه الدورية دراسات وأبحاث في جميع حقول المعرفة سواء أكانت علمية أم إنسانية.

مركز تقنيات المعلومات IT Center

رسالة المركز:

- تقديم الخدمات المناسبة لجميع مستخدمي الكمبيوتر بالجامعة.
- كسر الحاجز الجغرافي بين مقرات الجامعة وبين المؤسسات الأخرى وذلك بتوفير التوصيل الشبكي بينها.

أهداف المركز:

- تصميم نظم المعلومات المناسبة وصيانتها.
- صيانة شبكات الجامعة.
- تقديم خدمات تقنيات المعلومات لكليات الجامعة ومختبراتها.
- تطوير برمجيات الكمبيوتر بما يتناسب مع التطبيقات المطلوبة بالجامعة.
- توفير التدريب لأعضاء هيئة التدريس والطلبة والعاملين على مهارات تقنيات المعلومات وتطبيقاتها.
- تقديم الخدمات التقنية المطلوبة للجامعة فيما يتعلق بعقد الندوات والمعارض والمؤتمرات.
- فحص وتقييم البرمجيات قبل شرائها للتأكد من توافقها مع نظم الجامعة التقنية.
- وتتمحور استراتيجية مركز تقنيات المعلومات حول توفير وتطوير آليات اتصال فعالة ومتكاملة عبر الشبكات وبما يؤدي إلى كسر الحاجز الجغرافي بين كليات الجامعة ومقراتها وإداراتها. ويسمح هذا الربط الشبكي بالتواصل بين الجامعة والخارج وتفعيل البيئة الافتراضية في إطار منطقة السiber.

خدمات البحث:

تقدم المكتبات خدمات تسهيل الحصول على المعلومات في حقول المعرفة المختلفة بتوفيرها مجموعات من الكتب وغيرها. كما توفر المكتبة إمكانية الاستعارة من المكتبات الأخرى.

المشورة والمساعدة:

يقدم العاملون في المكتبات المشورة والمساعدة والتدريب لأعضاء هيئة التدريس والطلبة وكافة المستخدمين لكيفية الاستخدام الأمثل لمصادر المعلومات والتعلم المختلفة.

خدمات النسخ والتصوير:

توفر المكتبات آلات النسخ للمواد المختلفة مع مراعاة حقوق الطبع والنشر.

المكتبة الرقمية : Digital Library

تشتمل مصادر التعلم المتاحة بالمكتبة على:

- الأقراص المدمجة . CD-ROM حيث تتوافر قوائم بالأقراص المدمجة وهي متاحة للمستخدمين في جميع مكتبات الجامعة.
- الكتب الإلكترونية: توفر المكتبات العديد من الكتب في صورة رقمية من خلال شبكة الجامعة وتعمل المكتبة على زيادة المتاح من تلك الكتب باستمرار.
- خدمات الإنترنت:

يتمتع جميع الطلبة وأعضاء هيئة التدريس والعاملون بالجامعة بخدمة استخدام شبكة الإنترنت على مدار الساعة.

المصادر المتاحة عبر شبكة الجامعة:

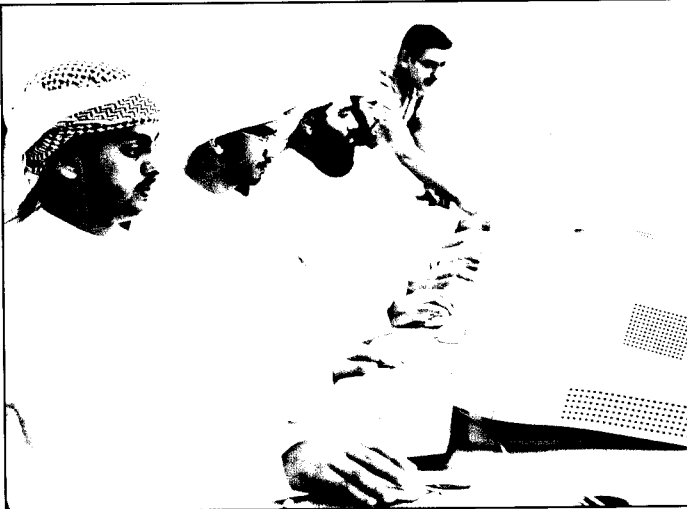
وتشمل قواعد المعلومات والدوريات والتي قامت الجامعة بالاشتراك فيها في تخصصات مختلفة.

شبكة الجامعة Intranet

تم ربط مقرات الجامعة بشبكة داخلية واحدة والتي يمكن من خلالها الوصول إلى مصادر المعلومات والتعلم المتاحة بالجامعة. كما يمكن الوصول إلى كثير من مصادر المعلومات والتعلم من خارج الجامعة. وبالتالي فقد تم التغلب على محدودية المكان والزمان بتوفير إمكانية الوصول إلى المصادر واستخدامها من خارج الجامعة ومن مقراتها المختلفة.

آلية التواصل عن بعد Video-Conferencing

توفر الجامعة تلك الآلية والتي تساهم بشكل فعال في التواصل الآني بين المقرات المختلفة وعقد الاجتماعات ونقل المحاضرات والندوات والأنشطة المشتركة. ويتيح ذلك الفرص المتكافئة لأعضاء هيئة التدريس والطلبة في جميع المقار.



مجلس البحوث والمعلومات والتدريب

يتبع هذا المجلس ثلاثة مراكز هي:

١. مركز البحوث والدراسات العليا.
٢. مركز مصادر المعلومات والشبكات.
٣. مركز التدريب والتعليم المستمر.

مركز البحوث والدراسات العليا

تعد البحوث من أولويات شبكة جامعة عجمان للعلوم والتكنولوجيا، كما أن إجراء البحوث يعد أحد المعايير الأساسية لتقييم أعضاء هيئة التدريس بشبكة الجامعة. وتشمل البحوث التي يتم إجراؤها في شبكة الجامعة ما يأتي:

١. البحوث المؤسسية والتي تتضمن أنشطة مثل دراسة وتقييم المشروعات قبل الشروع فيها والعمل على تحسين الممارسات القائمة واقتراح حلول للمشاكل التي تواجهها. ومن أهم جوانب البحوث المؤسسية تقويم الأداء في المؤسسة وتقويم مخرجاتها في الأبعاد التعليمية والمعلوماتية والاستثمارية.
٢. البحوث الأكاديمية الأساسية التطبيقية والتي تتناول مشروعات بحثية أساسية تقع في إطار اهتمامات شبكة الجامعة واحتمالات تطبيق مخرجاتها العملية. وتقوم شبكة الجامعة بتحفيز أعضاء هيئة التدريس على إجراء تلك البحوث والمشاركة في المؤتمرات العلمية كما يتم تشجيع الطلبة على إعداد أوراق بحثية كجزء من العملية التعليمية.
٣. البحوث التطويرية والبنية والتي تربط بين أقسام مختلفة في شبكة الجامعة وتهيئ البيئة الملائمة للتطبيق الأمثل لنتائج البحوث والتوجيه بإجراء المزيد من الدراسات والبحوث الهادفة.

٤. البحوث التفاعلية هي البحوث التي تتناول قضية هامة من كافة جوانبها ويشارك في تنفيذها جميع كيانات شبكة الجامعة تقريبا كما يقوم المركز بالإشراف على برامج الدراسات العليا في شبكة الجامعة من خلال اللوائح التنظيمية العامة والتنسيق مع كليات شبكة الجامعة.

مركز مصادر المعلومات والشبكات

تعد مصادر المعلومات والتعلم جزءا لا يتجزأ من العملية التعليمية. ولقد ساهمت الثورة المعلوماتية في التهيئة لتطويع الوسائل التقنية لتوصيل المعلومات للمستخدمين. وتلعب مكتبات الجامعة ومصادر المعلومات والتعلم الأخرى دورا أساسيا في تحقيق رؤية الجامعة.

المكتبات

رسالة المكتبات:

تساهم المكتبات في تحقيق رسالة الجامعة بتحديد مصادر المعلومات والتعلم وحفظها وتنظيمها وإتاحتها للمستخدمين بما يخدم احتياجات أعضاء هيئة التدريس والطلبة والعاملين والمجتمع بشكل عام.

أهداف المكتبة:

- يمكن تلخيص الأهداف العامة لمكتبات الجامعة فيما يأتي:
١. توفير وسائل البحث عن المعلومات والتدريب عليها.
 ٢. مساعدة الطلبة وأعضاء الهيئة التدريسية والهيئة المعاونة لتنمية مهاراتهم وتحديث معلوماتهم بما يدعم إجراء البحوث الأكاديمية المتميزة.
 ٣. تقديم المشورة والمساعدة لمستخدمي المكتبات.
 ٤. توفير مصادر التعلم المختلفة مثل الكتب والدوريات والتقارير والرسائل والصحف والمطويات والخرائط وبرامج الكمبيوتر والوسائط المتعددة.
 ٥. توفير المكان الملائم للإطلاع واستخدام مصادر التعلم المختلفة.
 ٦. توفير تقنيات المعلومات الضرورية ومصادر المعلومات في صورها الإلكترونية.

المكتبة التقليدية:

تقدم المكتبة في كل من مقر الجامعة خدماتها للمستخدمين. وتشتمل المصادر التي تقدمها المكتبات في الكتب والدوريات والتقارير والرسائل والصحف والمطويات وغيرها.



أين تقع شبكة جامعة عجمان للعلوم والتكنولوجيا ؟

تقع مقار شبكة الجامعة الأربعة في دولة الإمارات العربية المتحدة في : عجمان ، أبو ظبي ، والعين والفجيرة .

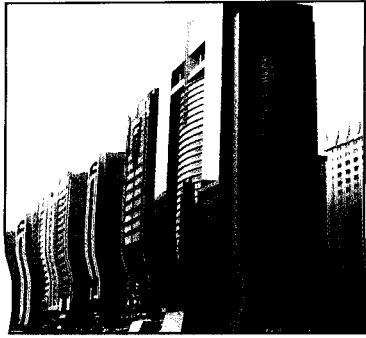
دولة الإمارات العربية المتحدة

إن دولة الإمارات العربية المتحدة اتحاد فيدرالي مكون من سبع إمارات هي : أبو ظبي ، ودبي ، والشارقة ، وعجمان ، ورأس الخيمة ، وأم القوين والفجيرة . وتقع الدولة على الساحل الشرقي لشبه الجزيرة العربية ، وتبلغ مساحتها ٧٧٧٠٠ كيلو متر مربع .

ومعظم هذه الأراضي مكون من صحارى تكسوها الرمال تتخللها هنا وهناك واحات ووديان خضراء ، وقد أنشئت فيها أحدث المدن وأجملها خلال العقود الأخيرة .

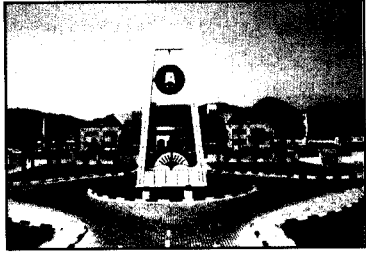
ويبلغ عدد سكان الدولة ما يقرب من ثلاثة ملايين نسمة ويشمل هذا الرقم المواطنين ، والمقيمين العرب والأجانب ، . ومناخ دولة الإمارات العربية المتحدة حار في شهور السنة (مايو إلى أكتوبر) حيث تصل درجة الحرارة العظمى إلى ٤٩ درجة مئوية فيما عدا المناطق الساحلية التي تكون ابرد قليلا إلا انها مرتفعة الرطوبة . أما الأشهر المتبقية فتتراوح فيها درجات الحرارة ما بين ٢٠ - ٣٥ درجة مئوية .

ويعتبر النفط أهم الثروات التي تمتلكها الدولة حيث يصل الاحتياطي فيها ما يعادل عشر الإحتياطي العالمي .



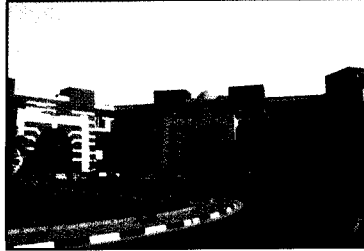
أبو ظبي

عاصمة الدولة الاتحادية وعاصمة إمارة أبو ظبي كذلك ، وهي أحد الموانئ الهامة للدولة وتقع في جزيرة أبو ظبي في الخليج العربي . أنشئ فيها فرع لجامعة عجمان عام ١٩٩٤ م .



الفجيرة

تقع إمارة الفجيرة في أقصى الساحل الشرقي لدولة الإمارات العربية المتحدة وتطل على المحيط الهندي والخليج العربي ، وتبعد مسافة (١٢٠) كم من دبي . أنشئ فيها فرع لجامعة عجمان عام ١٩٩٩ م .



عجمان

تقع إمارة عجمان على الساحل الغربي لدولة الإمارات العربية المتحدة على مسافة قريبة جداً من إمارة الشارقة وعلى بعد (٢٠) كم من دبي مما يجعل هذه الإمارات الثلاث (عجمان ، الشارقة ودبي) حاضرة متصلة . وإمارة عجمان هي المكان الذي تأسست فيه الجامعة عام ١٩٨٨ م .



العين

تقع مدينة العين في المنطقة الشرقية من دولة الإمارات العربية المتحدة وعلى حدود دولة عمان وتبعد مسافة تقرب من (١٦٠) كم من شواطئ الخليج العربي ، وتعد من أكبر المناطق الزراعية في الدولة . أنشئ فيها فرع لجامعة عجمان عام ١٩٩٧ م .

لماذا شبكة جامعة عجمان للعلوم والتكنولوجيا؟

والحديث في التعليم مع تفاعلات سوق الأعمال ومجتمع الفعاليات في إطار استخدام الوسائط المتعددة والشبكات وتقنيات المعلومات.

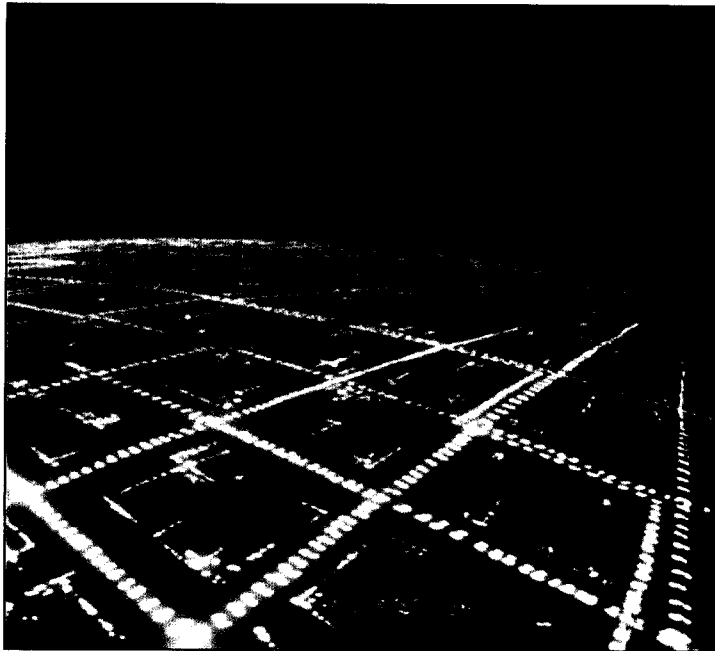
وينبثق مفهوم جامعة المستقبل من أهمية الاعتراف بدور التعليم والمعلومات في حياة المجتمع المعاصر، حيث درج الباحثون على إغفال هذا الدور للتركيز على العناصر السياسية والاقتصادية والثقافية والفكرية في صياغة التطورات التاريخية المتلاحقة. فخلال العقود القليلة الماضية، نمت قطاعات التعليم والإعلام وقطاع المعلومات بشكل لم يسبق له مثيل مما استوجب أخذها بعين الاعتبار عند الحديث عن رؤية مستقبلية للمجتمع المعاصر. فمن خلال إصلاح قطاعي التعليم والمعلومات يمكن إصلاح القطاعات الأخرى وذلك لما لهذه القطاعات من امتداد وتأثير في حياة الأفراد والشعوب.

وخير وممارس. فتعدد وظائف أعضاء هيئة التدريس في جامعة المستقبل يجعل من الجامعة بيت خبرة يعتد به في البيئة الخارجية كما يمارس أداء متميزاً في البيئة الداخلية. ومن هنا تأتي أهمية النظر إلى الجامعة كمصدر للمخرجات التعليمية ذات الجودة العالية إضافة لكونها وعاء خبرة يتفاعل مع الشركات والمؤسسات في إطار من العلاقات التبادلية المشتركة بين الطرفين. وفي بيئة الإبداع لجامعة المستقبل، يكون لتكنولوجيا الاتصالات والمعلومات والوسائط المتعددة دور مركزي في تحقيق الأهداف المرجوة باعتبار أنها تشكل الإطار المتجدد لتدفق المعلومات ليس في الإطار الجامعي فقط بل في إطار تفاعل شبكة الجامعة كبيت خبرة مع سوق العمل والفعاليات في المستويات الداخلية والخارجية. ويرتبط بهذا الموضوع مفهوم الجامعة كنظام مفتوح تتداخل فيه النظم التقليدية

شبكة جامعة عجمان للعلوم والتكنولوجيا بأبعادها الثلاثة التعليمية والمعلوماتية والاستثمارية مؤسسة تعليم عال غير نمطية تسعى لتحقيق رؤية معاصرة لجامعة المستقبل التي تتميز بانتقاء أفضل المزايا في برامجها وتوجهاتها ونظمها، إضافة لتلاحمها العميق مع سوق العمل، ولتأكيداها على الاستثمار الأمثل لتكنولوجيا المعلومات والاتصالات لتحقيق بيئة افتراضية تسمح بتوفير الموارد وتحقيق فاعلية أفضل في المخرجات. إن شبكة جامعة عجمان هي بيت للخبرات المبنية على رؤية واضحة وفلسفة تعليمية دقيقة وبرامج عمل تنفيذية معروفة الأهداف والإجراءات والمخرجات. ولجامعة المستقبل دور فاعل في تحقيق بيئة الإبداع الشاملة وفق المعايير التعليمية والمعلوماتية والاستثمارية. فالذين ارتقوا وابدعوا هم أولئك الذين يعيشون في بيئة معيارية متكاملة متوهجة بوهج الهوية الحية التي ينتمون إليها في جميع مجالات الحياة بحيث يتمكنون من التعامل مع هويتهم المشعة الفعالة إلى التعامل من خلال المؤسسة التعليمية والمعلوماتية والاستثمارية والبيئة الافتراضية بشكل متكامل.

ووفقاً للاستراتيجية التي تنتهجها شبكة الجامعة في عملها، فإن بيئة الإبداع الشاملة تتحقق من خلال تضافر مجموعة من الآليات المنهجية التي تقود في حال توافرها إلى تحقيق واقع ابتكاري متميز. فكلما كان هناك توافر بين هذه الآليات المنهجية، تزايدت فرص تحقيق الإبداع الذي يجب أن توضع نتائجه في متناول المجتمع مؤسسات وأفراداً.

ولكي تحقق جامعة المستقبل نظرتها الشاملة على أنها كيان ممتد بلا حدود داخل الحرم الجامعي وخارجه في كل أوصال المجتمع، فلا بد لها أن تطور المعايير الواضحة التي تحدد دور عضو هيئة التدريس فيها على أنه مدرس وباحث ومدرّب



رسالة شبكة جامعة عجمان للعلوم والتكنولوجيا وأهدافها

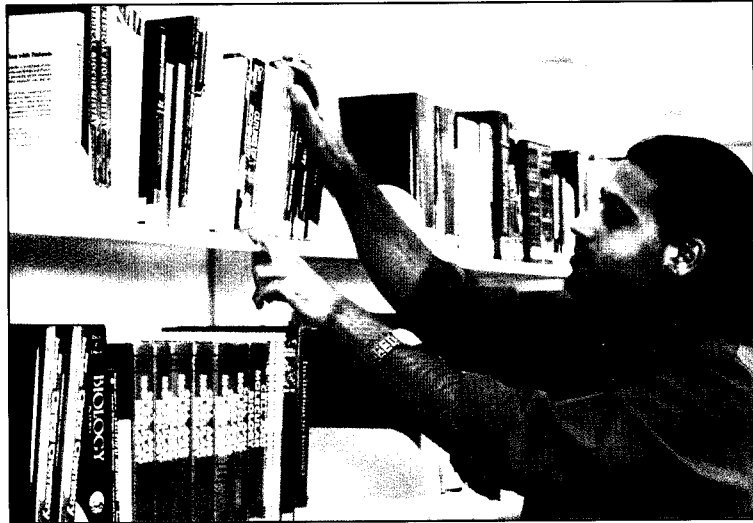
رسالة شبكة الجامعة:

تهدف شبكة جامعة عجمان للعلوم والتكنولوجيا بأبعادها الثلاثة التعليمية والمعلوماتية والاستشارية إلى رفد المجتمع بخريجين متميزين قادرين على التعامل مع التقنيات الحديثة وتطبيقاتها في شتى مجالات الحياة وفي برامج التنمية. وتوفر شبكة الجامعة للطلبة آليات تعليم وتعلم حديثة متقنة بعناية ومكيفة بما يتواءم مع عادات المجتمع وقيمه ومتطلباته. وتعمل شبكة الجامعة على كسر الحاجز بين المجتمع الأكاديمي ومجتمع الفعاليات والأعمال من خلال تطبيق المفهوم المتكامل لمعايير التدريس والبحث والتدريب والخبرات والممارسة وفي الأبعاد التعليمية والمعلومات والاستشارية.

أهداف شبكة الجامعة:

١. مساعدة الطلبة على تحقيق التميز على المستوى الشخصي والمهني والقيادي وذلك من خلال تقديم برامج أكاديمية ومهنية، تدريبية وتطبيقية.
٢. مساعدة الطلبة على استخدام المعلومات وممارسة التدريب واقتان المهارات فيما يفيد المجتمع ووسط الأعمال.
٣. استخدام الآليات التي تحفز التفكير الإبداعي والتعلم المستمر واكتساب المهارات.
٤. التأكيد على أهمية البعد الأخلاقي وتحمل المسؤولية وتطبيق المعايير في الدراسة والعمل.
٥. تغذية البرامج الأكاديمية بالأنشطة الصفية واللاصفية.
٦. تهيئة عناصر بيئة الإبداع الشاملة لدعم عملية التعليم والتعلم والبحث.
٧. تأمين وسائل تطبيق معايير الجودة بتشكيل الوحدات والأقسام اللازمة لذلك داخليا وخارجيا.

٨. تقديم برامج أكاديمية وتجريبية وتطبيقية متميزة كفيلة بإعداد الخريجين للعمل في أي مكان في العالم والتأكيد على تكاملية العملية التعليمية والبحثية.
٩. العمل على تطوير الإمكانيات البحثية وخاصة البحوث التطبيقية وتهيئة البيئة المناسبة للإيفاء باحتياجات الطلبة وأعضاء هيئة التدريس والعاملين بشبكة الجامعة للوصول إلى أعلى مستويات الجودة في الأداء.



الملف القانوني:

يثبت المعنى ويوجد التوازن بين الملفات الأخرى وينظم العلاقات بين جميع وحدات شبكة الجامعة داخليا وبينها وبين الخارج . .

الملف التنظيمي والإداري:

التنظيم والإدارة من آثار وثمرات القانون ويتناغمان مع جميع الملفات . ويتناول ذلك الملف الإجراءات التنظيمية والإدارية التي تكفل تنفيذ المطلوب من خلال إجراءات منضبطة ومتسلسلة في إطار خطط عمل وجداول زمنية دقيقة .

الملف المالي والاستثماري:

يتولى هذا الملف مسؤولية ضبط النفقات وتقليصها إلى الحد الأدنى . وهذا من الأركان الأصلية لروية شبكة جامعة عجمان حيث يتم تحقيق أفضل درجات الانجاز بأقل التكاليف الممكنة وفي أسرع وقت وتحقيق مبدأ تعدد الأغراض وتعدد الوظائف وتعدد الاستخدامات .

ملف المعلومات والإعلام والترويج:

يستوعب مخرجات جميع الملفات ويتفاعل معها جيدا ومن ثم يخرجها بلغاته ووسائل تعبيره بشفافية تعكس الوجه المشرف للمؤسسة .

ملف المعايير لضمان الجودة ومراقبتها:

يركز على التأكد من حسن التطبيق وضبط الإيقاع والتناغم بين جميع وحدات شبكة الجامعة . ولكل ملف أو إجراء معايير الخاصة التي يتم من خلالها التأكد من صدق ومعيارية الأداء كما ينتمي التطوير المعياري في الملفات الأخرى لهذا الملف . ويستكمل فيه ما لم يستوف من معايير في الملفات الأخرى .

ملف المتابعة والتحديث والتطوير:

وبعد أخذ باقي الملفات وصحبها في المتابعة للتأكد من التنفيذ يأتي التحديث مباشرة وإذا ما حدث ذلك بشكل جيد فإن التطوير يصبح سلوكا وحمية .

رابعا : معايير الجودة والتقييم

وهذه المعايير هي لتقييم الأشخاص والمناهج والأداء وغيرها . ولكل من هذه المعايير تفاصيل قابلة للقياس . وتحرص شبكة الجامعة على تطبيق معايير الجودة لتحقيق رؤيتها وأهدافها بالشكل الأمثل فيما يتعلق بأبعادها التعليمية والمعلوماتية والاستثمارية .

خامسا : النموذج الهرمي لتنفيذ المشروعات

تحرص شبكة الجامعة على التطبيق التدريجي للأفكار والمشروعات بما يضمن حسن التطبيق وجودته .

مراحل تطبيق المشروعات:

أولا: مرحلة الفكر:

هي الخطوة الأولى حيث يتم تبادل الآراء والأفكار بحرية تامة ودون قيود ، وتؤخذ كافة التجارب والمداخلات من شتى الاتجاهات في الاعتبار ، ثم تتفاعل الأفكار وتتلاقح للوصول إلى أفضلها وأنسبها لظروف شبكة الجامعة والمنطقة . وبعد التوصل للفكرة المناسبة يصبح القبول بها ملزما للجميع حتى لا تنتشت الجهود . ويجب تطبيق معايير الفكر من بالالتزام بالموضوعية والخلق والقيم .

ثانيا: مرحلة الرؤية:

بعد استقرار الفكرة وتولد القناعة بها يتم بلورتها بما يتناسب مع الرؤية الشاملة لشبكة الجامعة لضمان التناغم وانتقاء أفضل المزايا بينهما . وهنا لا بد من إخضاع الفكر لمعايير الجودة والمواءمة وأخلاقيات التعامل ويجب صياغة كافة المداخلات في منهاج الملفات الذي تتبعه شبكة الجامعة لتسهيل الحكم على التجربة ومقارنتها بغيرها .

ثالثا: مرحلة التجريب:

بعد إنجاز مرحلة الرؤية بوضع الفكرة في أفضل صورة تطبيقية ممكنة يتم تجربتها بشكل عملي على أرض الواقع في حدود ضيقة وقياس مدى نجاح التطبيق والوقوف على السلبيات والإيجابيات من الناحية العملية ، وهنا لا بد من إخضاع التجريب لمعايير الجودة في الأداء ولضمان عدم خروجها عن النسق العام في خضم الممارسة العملية للمؤسسة .

رابعا: مرحلة التطبيق:

هي مرحلة الغرس المعياري في أرض الواقع بعد نضوج الفكرة وتكامل جوانبها خلال المراحل السابقة بما يضمن التطبيق المتميز والذي يعزز الإيجابيات ويقلل السلبيات . كما يجب استمرار تطبيق معايير الجودة التي تضمن حسن التطبيق وانسجامه وتكامله مع النسق العام لشبكة الجامعة . وفي هذه المرحلة لا ينبغي أن تخرج آراء تشكك في صلب الفكرة وجدواها أو تكرار ما تم إنجازه ، ففي هذا السلوك تعطيل لسير العمل وهدر للوقت والجهد وتقليل من الفائدة المرجوة ، وإنما يتم التعبير عن الرأي في إطار روح الفريق ومن خلال الآليات المحددة بهدف التقييم والتطوير المستمر .

خامسا: جلائل الأعمال:

لا شك أن المعاناة وتكرار التطبيق أثناء المراحل السابقة سيكسب التجربة نضجا وخبرة واستقرارا ووضوحا ، وهذا لا بد أن يؤدي بالتبعية إلى دقة الممارسة وجودتها . كما أن حسن قيادة الفريق الذي يطبق يضمن التناغم والانسجام والانتقال إلى مستويات أعلى من أفكار جديدة وإضافات متميزة .

جميع أعضاء أسرة شبكة الجامعة وتوفير الوقت والجهد والنفقات فقط وإنما تتعدى ذلك إلى تحقيق مبدأ مهم تحرص عليه شبكة الجامعة ألا وهو توحيد مدخلات العملية التعليمية وتوفير الفرص المتكافئة لجميع الطلبة في الوصول إلى مصادر المعلومات والتعلم وعقد الندوات التقاربية والمحاضرات المشتركة وتشكيل فرق بحث وعمل من أعضاء هيئة التدريس والطلبة لتنفيذ مشروعات بحثية مشتركة دون تحمل عناء السفر وهدر الوقت. هذا بالإضافة إلى إمكانية تقويم مخرجات العملية التعليمية على مستوى شبكة الجامعة ككل لضمان تكاملها وتناغمها.

ثانياً : منطقة السبيل

وتتضافر البيئة الافتراضية مع منطقة السبيل حيث لا حدود مكانية أو زمانية للمعلومات. وخلال منطقة السبيل تتواصل وحدات شبكة جامعة عجمان مع شبكات ومؤسسات وهيئات محلية وعالمياً مما يؤدي إلى انسياب المعلومات والخبرات والإمكانات بسهولة وسرعة وكفاءة في عصر أصبحت دقة وسرعة التواصل فيه ضرورية. وبذلك تطبق شبكة الجامعة رؤيتها في التواصل والاطلاع على تجارب العلم أولاً بأول مما يدعم منهاج الانتقاء والمواصلة والاستفادة الفورية من كل ما هو جديد.

كما تستخدم آليات البيئة الافتراضية ومنطقة السبيل في نقل الدورات التدريبية وبرامج التعليم المستمر إلى خريجي شبكة الجامعة ومنتسبيها ولمن يرغب من أفراد المجتمع حرصاً من شبكة الجامعة على مواصلة التميز وكسر الحاجز بينها وبين مجتمع الأعمال والفعاليات. ولا شك أن ذلك يعزز تهنية بيئة الإبداع والتي تترعرع فيها الكفاءات وتنمو وتزدهر.

ثالثاً : منهاج الملفات

لسهولة تناول الموضوعات والمشروعات المختلفة وعرضها بشكل يسهل تقييمه وتتبعه فإن شبكة الجامعة تتبع منهاج الملفات الذي يوضح الجوانب المختلفة للمشروعات أو الموضوعات. وهذه الملفات هي:

الملف الاستراتيجي

يتناول الجوانب الاستراتيجية بشقيها الإداري والموضوعي ويتولى هذا الملف الإدارة العليا لشبكة الجامعة برئاسة معالي الرئيس والذي يحدد التوجهات الاستراتيجية. ومن ثم يقوم الإداريون والأكاديميون بالتنفيذ في إطار الرؤية لشبكة الجامعة وفلسفتها التعليمية.

الملف الفكري الأكاديمي

يتناول الموضوعات الفكرية والمعايير الأكاديمية مثل التدريس والبحث والتدريب والخبرة والممارسة. ويعني هذا الملف بالبرامج الأكاديمية وما يتعلق بها من مصادر للمعلومات والتعلم ودورات تدريبية. كما يعنى الجانب الإبداعي المتعلق بتلك الأنشطة.

كما أن تطوير الطرق التقليدية المحدثة عن طريق انتقاء أفضل ما يستجد من طرق التعليم ونظرياته بالإضافة إلى تطوير وسائل مثل الفيديو ووسائل السمع المختلفة والشبائيات والشرائح الملونة يختصر الوقت المطلوب لتوصيل المعلومات ويساهم في إعطاء المحاضرات بشكل أفضل وأكثر تركيزاً ويثري عملية النقاش بمزيد من المعلومات.

ولتحقيق ذلك قامت شبكة الجامعة بتأسيس قسم لتقنيات التعلم ليساعد في إنتاج وسائل التعليم الحديثة. كما يقوم خبراء التربية بشبكة الجامعة بعمل ورش العمل التخصصية والدورات التدريبية لتنمية مهارات أعضاء هيئة التدريس والطلبة استجابة للتطورات المتسارعة في المفاهيم التربوية في هذا المجال وازداحة في الاعتبار مستوى الطلبة واحتياجاتهم في ضوء التقويم المستمر لمخرجات العملية التربوية والتعليمية.

البيئة الافتراضية :

تحت شبكة الجامعة على استخدام جميع التقنيات الحديثة في التعليم والتواصل. ويشمل مفهوم البيئة الافتراضية فيما يشمل إتاحة جميع أنشطة شبكة الجامعة من خطط ومساقات دراسية ومصادر معلومات وتعلم ونظم قبول وتسجيل الطلبة وشؤون إدارية ومالية ودورات تدريبية وندوات تقاربية وغيرها من خلال الشبكة المعلوماتية الداخلية بأسلوب تفاعلي. كما يشمل استخدام وسائل التعليم والتعلم والاتصال مثل الوسائط المتعددة والمحاكاة التفاعلية والانترنت والتواصل عن بعد أصبحت هذه الأدوات ضرورية للتواصل بين وحدات وكيانات شبكة الجامعة فيما بينها وبين شبكة الجامعة والمؤسسات التي ترتبط بها في الخارج.

ولا شك أن خصوصية شبكة جامعة عجمان للعلوم والتكنولوجيا تحتم استخدام تلك التقنيات والآليات في التواصل، ذلك أن لشبكة الجامعة ثلاثة مقار في أبوظبي والعين والفجيرة بالإضافة إلى المقر الرئيسي بعجمان وتقع تلك المقار في خمس مجمعات متباعدة، بالإضافة إلى جامعة البحر الأبيض المتوسط بفرنسا بإسبانيا والتي تعد عضواً في شبكة جامعة عجمان للعلوم والتكنولوجيا. ومن هنا تكمن الأهمية الخاصة لعناصر البيئة الافتراضية في الربط الشبكي لمقار شبكة الجامعة لضمان التواصل الآني والفعال بين جميع أعضاء أسرة الجامعة علاوة على توفير الوقت والجهد والنفقات مع تحقيق أقصى درجات الإنتاجية، وهي أمور أساسية في الرؤية الشاملة التي تقوم عليها شبكة الجامعة. ولتنفيذ تلك الآليات تقوم شبكة الجامعة بالتحديث والتطوير المستمر لشبكاتها كما قامت بتأسيس مراكز الوسائط المتعددة التفاعلية ومركز الإنتاج الإعلامي للمساهمة في إنتاج واستخدام المواد التعليمية الحديثة. كما قامت شبكة الجامعة بتوفير نظام إلكتروني لمكتباتها يمكن الجميع من الوصول إلى كل مصادر المعلومات والتعليم من جميع مقار شبكة الجامعة. ووفرت شبكة الجامعة أيضاً شبكة من أجهزة التواصل عن بعد والتي تتيح للجميع عقد الاجتماعات واللقاءات والندوات والمحاضرات وغيرها من الأنشطة المشتركة بينما يتواجد كل في مكانه.

ولا تقتصر أهمية استخدام آليات البيئة الافتراضية على التواصل الكفاء بين

الرؤية الشاملة لشبكة الجامعة

ومن خلال تلك الندوات التقاربية تتبلور الأفكار حيث ترصد وتستخدم في تفعيل مجالات التعاون بصورة واضحة ومثمرة، كما تستخدم نتائجها في تحديث وتطوير الخطط الدراسية بشبكة الجامعة. ومن هنا يأتي التفاعل الإيجابي والتلاحم بين ما يتم تدريسه في قاعات الدراسة وما يتم ممارسته على أرض الواقع.

وهذا يؤدي بلا شك إلى تهيئة بيئة الإبداع الشاملة والتي تسعى شبكة الجامعة لتحقيقها.

مفهوم التلاحم والانتقاء والتكيف والمواءمة:

يجب أن يكون التعليم منفتحاً على كل النظم التعليمية السابقة والحاضرة للتفاعل مع المستحدثات العالمية والمخترعات الحديثة والتطورات التقنية أولاً بأول ومن شأن ذلك الانفتاح أن يضمن تخريج كوادر قادرة على التطوير والتواءم المستمر مع مستحدثات العصر والإبداع والابتكار في مجالات التطبيق. وفي الوقت نفسه ينبغي الحفاظ على الهوية والثقافة والتقاليد. بالإضافة إلى ذلك، ولضمان جدوى العملية التعليمية، فلا بد من توجيه التعليم وترجمته إلى أمثلة تطبيقية تتعلق بالبيئة المحلية تكريساً لإعداد المتعلمين للانخراط مباشرة في مجتمع الأعمال والفعاليات.

ولتحقيق كل تلك المزايا اعتمدت شبكة الجامعة منهاج التلاحم والانتقاء والتكيف والذي يشمل:

١. التلاحم: التفاعل مع كل ما في العالم من نظم تعليمية وما يتعلق بها من أنشطة.

٢. الانتقاء: وهو انتقاء أفضل المزايا في النظم المختلفة وذلك بعد فرز دقيق لما يجري في العالم من رؤى وأفكار وتطبيقات.

٣. المواءمة للمستخدمين والمستفيدين وهي مواءمة خلاصة عملية الانتقاء ودمج كل تلك العناصر المستخلصة من النظم المختلفة في الخطط التعليمية والتدريبية مع مراعاة القيم والعادات والثقافة والتاريخ لتصبح جاهزة للمستخدمين في الدولة والمنطقة في صورة تكاملية دقيقة.

الطرق التقليدية المحدثة:

تقوم شبكة الجامعة بالتطوير المستمر لطرق التعليم التقليدية المحدثة وبما يتلاءم مع مستوى الطلبة وتحقيق أهداف الخطط الدراسية. حيث يتم استخدام طرق التعليم المبني على معالجة المشكلات ودراسات الحالة وغيرها كما يتم دمج برامج الحاسب الآلي والوسائل السمعية والبصرية وبما يضمن الوصول إلى أفضل المخرجات للعملية التعليمية.

وبالتالي فإن تطوير تلك الطرق تبقى على ميزة التفاعل المباشر بين المدرس والطالب وكذلك الطالب والطالب وهو ما يكرس مفهوم التحديث مع التقيد بالمثل والقيم ويعطي المدارس الفرصة لتصحيح أخطاء الطلبة ومفاهيمهم بالنقاش المباشر.

إن الأمم لا تحتاج إلى كثرة جامعات. ولكن تحتاج إلى رؤى... رؤى قابلة للتطبيق... تحمي الأمم من سلبات العولمة وتتناغم معها في إيجابياتها. من أنا؟ ومن نحن؟ ومن هو الآخر؟ واين هوية الأمة التي تنتهي إليها المؤسسة التعليمية والمعلوماتية والاستثمارية وغيرها؟

شبكة جامعة عجمان للعلوم والتكنولوجيا هي مؤسسة تعليمية معلوماتية استثمارية لها أهداف محددة وواضحة أبرزها تهيئة بيئة الإبداع الشاملة وفق معايير وضوابط محددة لضمان الجودة ومراقبتها ولا شك أن بيئة الإبداع تطلق العنان لأعضاء هيئة التدريس والطلبة والعاملين لإعطاء أفضل ما لديهم والإبداع في مجالات التدريس والبحث والتدريب والخبرات والممارسة. ولتحقيق بيئة الإبداع عملياً لا بد من توافر العناصر والمقومات التي تؤدي إلى ذلك ومنها:

- الجامعة كنظام مفتوح
- منطقة السبيل
- منهاج الملفات
- معايير الجودة والتقييم
- النموذج الهرمي لتنفيذ المشروعات

أولاً: الجامعة كنظام مفتوح

تجمع مزايا النظم التعليمية التقليدية المحدثة والنظم التفاعلية وتستفيد من كافة التقنيات الحديثة ومنهجيتها على أربعة محاور:

- كسر الحاجز بين المجتمع الأكاديمي ومجتمع الأعمال والفعاليات
- مفهوم التلاحم والانتقاء والتكيف والمواءمة
- الوسائل التقليدية المحدثة
- البيئة الافتراضية

كسر الحاجز بين المجتمع الأكاديمي ومجتمع الأعمال والفعاليات:

إن انفتاح شبكة الجامعة على المجتمع له مردود إيجابي على كل منهما. فربط أنشطة شبكة الجامعة من خطط دراسية وأبحاث ودورات تدريبية وخبرات وممارسة بالتطبيق العملي وبالتغيرات على الساحة المحلية والعالمية وباحتياجات سوق العمل سوف يؤدي بلا شك إلى مد مجتمع الأعمال والفعاليات بخبرات مؤهلة تساهم في دفع عجلة التنمية قدماً كما تغذي شبكة الجامعة بعناصر فكرية وتطبيقية تساهم في ضبط جودة التعليم وملاءمة الخطط الدراسية لمتطلبات المجتمع وبالتالي تخريج كوادر تساهم مباشرة في مجتمع الأعمال والفعاليات.

وتقوم شبكة الجامعة منذ نشأتها بجهد كبير في مجال كسر الحاجز بينها وبين مجتمع الأعمال والفعاليات حيث تنظم الندوات التقاربية لكل مشروع أو فكرة تنوي تنفيذها وتدعو لها ذوي العلاقة من رجال الأعمال وأهل الفعاليات.

نبذة تاريخية

إن فكرة إنشاء شبكة جامعة عجمان للعلوم والتكنولوجيا قد جاءت تعبيراً عن الاهتمام الكبير الذي أولاه صاحب السمو الشيخ زايد بن سلطان آل نهيان - رحمه الله - مؤسس دولة الإمارات العربية المتحدة للتعليم العالي . وبصفة خاصة في مجال العلوم والتكنولوجيا . كما تعد تجسيدا لتوجهات سموه بتوسيع نطاق هذا النوع من التعليم لتأهيل كوادر فنية وتقنية متخصصة . قادرة على تلبية احتياجات الخطط التنموية الطموحة للدولة .

وبإدراك تام لكل ذلك . وتكاملاً مع جهود الدولة في التنمية والتطوير . بادر صاحب السمو الشيخ حميد بن راشد النعيمي عضو المجلس الأعلى

حاكم عجمان بإصدار المرسوم الأميري رقم ٨٨/٤ في ٣ من ذي القعدة سنة ١٤٠٨ هـ الموافق ١٩٨٨/٦/١٧ . والخاص بتأسيس كلية عجمان الجامعية للعلوم والتكنولوجيا باعتبارها مؤسسة تعليمية جامعية تحظى برعاية كاملة من سموه . وتسهم بجهودها مع مثيلاتها من المؤسسات التعليمية الجامعية الأخرى في الدولة في تحمل جانب من مسؤوليات البناء والتنمية والتطوير . . وقد صدر قرار معالي الشيخ نهيان بن مبارك آل نهيان وزير التعليم العالي والبحث العلمي رقم (٥٤) سنة ٩٤ في شأن الترخيص لكلية عجمان الجامعية للعلوم والتكنولوجيا بالعمل في مجال التعليم العالي .

كما صدر قرار وزير التعليم العالي والبحث العلمي رقم (٥٤) سنة ٩٧ في شأن تحويل كلية عجمان الجامعية لتصبح جامعة عجمان للعلوم والتكنولوجيا وأصبحت بعد ذلك شبكة جامعية . وتعتبر شبكة الجامعة عضواً مؤسساً لرابطة المؤسسات العربية الخاصة للتعليم العالي والشبكة العربية الأوروبية للبحوث . وفي الثالث عشر من إبريل عام ١٩٩٩م انضمت شبكة الجامعة إلى اتحاد الجامعات العربية .



معلومات عامة

١٦	نبذة تاريخية
١٧	الرؤية الشاملة لشبكة الجامعة
٢٠	رسالة شبكة جامعة عجمان للعلوم والتكنولوجيا وأهدافها
٢١	لماذا شبكة جامعة عجمان للعلوم والتكنولوجيا؟
٢٢	أين تقع شبكة جامعة عجمان للعلوم والتكنولوجيا؟
٢٣	مجلس البحوث والمعلومات والتدريب
٢٣	مركز البحوث والدراسات العليا
٢٣	مركز مصادر المعلومات والشبكات
٢٣	- المكتبات
٢٤	- مركز تقنيات المعلومات
٢٥	مركز التدريب والتعليم المستمر
٢٥	دورية الجامعة
٢٦	مركز اللغات
٢٨	عمادة شؤون الطلبة
٢٨	الأنشطة الطلابية
٢٨	النشاط الاجتماعي
٢٨	النشاط الثقافي
٢٩	النشاط الرياضي
٢٩	الخدمات الطلابية
٢٩	السكن
٣٠	العيادات الصحية
٣٠	النقل
٣٠	مؤسسة (سمارت سوبرستور)
٣١	مركز تكنوسفير للتميز
٣٢	بيت الحكماء والنخب
٣٣	بيئة الإبداع الطبية
٣٤	معهد البيئة والمياه والطاقة
٣٥	وكالة التوظيف

معلومات عامة

المحتويات

١٥	معلومات عامة
٣٧	القبول والتسجيل
٥٥	ملخص عن الكليات التي تدرس باللغة الإنجليزية
٥٨	● كلية إدارة الأعمال
٥٩	● كلية علوم وهندسة الحاسب الآلي
٦٠	● كلية طب الأسنان
٦١	كلية الهندسة
٦٣	✦ كلية اللغات الأجنبية والترجمة
٦٤	كلية الصيدلة والعلوم الصحية
٦٥	● كلية المعلومات والإعلام والعلاقات العامة
٦٧	● كلية التربية والعلوم الأساسية

كلمة رئيس شبكة الجامعة



يطيب لي أن أقدم في كلمات موجزة شبكة جامعة عجمان للعلوم والتكنولوجيا، والتي انطلقت في عام ١٩٨٨م كمبادرة تعليمية غير نمطية في مسيرة التعليم العالي، ليس في دولة الإمارات العربية المتحدة فقط بل في المنطقة العربية وعلى مستوى العالم. ولقد تمكنت شبكة جامعة عجمان للعلوم والتكنولوجيا بأبعادها الثلاثة التعليمية والمعلوماتية والاستثمارية من شق طريقها، والتغلب على العديد من الصعاب من خلال الالتزام برؤية شاملة تقوم على برنامج عمل دقيق وواضح المعالم يسعى إلى تحقيق هدف نبيل يتمثل في جامعة المستقبل. وفي مفهومنا فإن جامعة المستقبل تركز على التعليم كنظام مفتوح يؤدي إلى تحقيق بيئة الإبداع الشاملة. وكان من نتائج تبني تلك الرؤية أن ترسخت شبكة جامعة عجمان للعلوم والتكنولوجيا كبيت خبرة يرفد المجتمع والمنطقة بالخبرات المتميزة في شتى المجالات.

ومن أهم مزايا التعليم كنظام مفتوح هو كسر الحاجز بين المجتمع الأكاديمي ومجتمع الفعاليات وفضاء السايبر بالإضافة إلى الاستفادة من الوسائل التقليدية المحدثه وعناصر البيئة الافتراضية ومنطقة السايبر وأدواتها التفاعلية الحديثة. ومن هنا كان دور شبكة الجامعة الفعال في إنشاء ثلاثة مقار لها في أبوظبي والعين والفجيرة وفي إنشاء جامعة البحر الأبيض المتوسط في فالنسيا بأسبانيا والمساهمة كبيت خبرة في إنشاء كئيتين جامعتين في مسقط وصلالة بسلطنة عمان الشقيقة. كما كان لشبكة جامعة عجمان للعلوم والتكنولوجيا السبق في تأسيس رابطة المؤسسات العربية الخاصة للتعليم العالي والشبكة العربية الأوروبية للبحوث واللذان أشرف برئاستيهما كتنويع الدور الفعال والتميز لشبكة الجامعة في تأسيسهما.

وللتواؤم مع عصر المعلومات فلم نال جهداً في دعم شبكة الجامعة بقواعد المعلومات وأدواتها من شبكة داخلية ووسائل التواصل عن بعد ومختبرات الوسائط المتعددة وشبكة المعلومات الدولية التي تربط مقار شبكة الجامعة ببعضها ببعض وتربطها بمجموعة بالعالم الخارجي في إطار بيئة افتراضية فاعلة أثرت البعدين الآخرين لشبكة الجامعة وهما البعد التعليمي والبعد الاستثماري.

كما أسست شبكة الجامعة مركز تكنوسفير للتميز بدبي وفروعه في أبوظبي والفجيرة كجسور للتواصل بين المجتمع الأكاديمي ومجتمع الأعمال والفعاليات. وعادة ما تبرز شبكة الجامعة أطروحاتها وأنشطتها ومشاريعها من خلال تنظيم ورش العمل والندوات والمؤتمرات التقاربية ثم تقوم بتقييم مخرجات هذه الفعاليات للتأكد من تطبيق معايير الجودة.

وبدخول شبكة جامعة عجمان للعلوم والتكنولوجيا القرن الجديد فإن التزامها بتحقيق بيئة إبداع شاملة في التعليم العالي يزداد رسوخاً يوماً بعد يوم. في ضوء رؤية شاملة تستمد قوتها من خطط تنفيذية وبرامج عمل دقيقة وواضحة المعالم أثمرت إنجازات ملموسة على أرض الواقع في الأبعاد الثلاثة: التعليم والمعلومات والاستثمار.

ولم توت تلك الرؤية الشاملة ثمارها إبداعاً وابتكاراً إلا من خلال التلاحق وانتقاء أفضل المزايا في مختلف النظم التعليمية من حولنا ثم تكيفها للمستفيدين والمستخدمين في الدولة والمنطقة، وذلك تحقيقاً لمفهوم الجامعة كنظام مفتوح تعمل على تسخير خبراتها للنهوض بشتى مناحي الحياة.

والسلام عليكم ورحمة الله وبركاته.

د. سعيد عبد الله سلمان

رئيس شبكة جامعة عجمان للعلوم والتكنولوجيا

رئيس رابطة المؤسسات العربية الخاصة للتعليم العالي

رئيس الشبكة العربية الأوروبية للبحوث



صاحب السمو الشيخ حميد بن راشد النعيمي

عضو المجلس الأعلى - حاكم عجمان

راعي شبكة جامعة عجمان للعلوم والتكنولوجيا



صاحب السمو الشيخ خليفة بن زايد آل نهيان
رئيس دولة الامارات العربية المتحدة



المغفور له بإذن الله / صاحب السمو الشيخ زايد بن سلطان آل نهيان
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