

1. Name Dr. Ahmed Imran
2. Education – degree, discipline, institution, year
 - D. Phil - University of Oxford, Oxford, UK. (Biomedical Engineering – Mechanics of the ligament deficient knee), 1998.
 - B. Sc. in Mechanical Engineering, Jamia Millia Islamia, New Delhi, India, 1990.
3. Academic experience – institution, rank, title (chair, coordinator, etc. if appropriate), when (e.g., 2002-2007), full-time or part-time
 - College of Engineering and IT, Ajman University, UAE (full-time):
Associate Professor, September 2018 – present.
Assistant Professor, February 1999 – August 2018.
BME Program Coordinator, September 2010 – present.
Acting Head, Biomedical Engineering Department: September 2023–present 2023.
Acting Head, Mechanical Engineering Department: September 2019–August 2023.
 - Oxford Orthopaedic Engineering Centre, Oxford University, UK: Research Fellow (visitor): 05 July – 17 August 1999 & 20 June – 31 July 2000.
4. Non-academic experience – company or entity, title, brief description of position, when (e.g., 2008-2012), full-time or part-time
 - Delhi Electric Supply Undertaking – Rajghat Power Plant, New Delhi, India (coal-based electric power generation plant): Engineer (Trainee), 1990–91. Full-time.
5. Certifications or professional registrations
6. Current membership in professional organizations
 - American Society of Mechanical Engineering (ASME), USA.
 - European Society of Biomechanics. (ESB)
 - International Association of Engineers (IAENG), Hong Kong.
7. Honors and awards
 - Ajman University Internal Research Grant (as PI): 2023-IRG-ENIT-32 (UAED 19800); 2022-IRG-ENIT-12 (UAED 34000).
 - Ajman University participation in Collaborative Online International Learning Grant (COIL-2023) grant won by North Texas University, USA – coordinated participation of Ajman University to study collaboration of undergraduate engineering students with international and intercultural learning experiences in preparation for global careers.
 - Society Research Welfare Award (by International Congress on Advances in Materials Science and Engineering), 2021.
 - Biomet Ltd, Swindon, UK (Research Grant), 1997.
 - Biomet Ltd Swindon, UK (1997): (Research Travel Grant).
 - Radhakrishnan Memorial Bequest, Oxford, UK, 1994

- Felix Scholarship (1992): Scholarship to study for a research degree at the Univ. of Oxford.
- Selected, through a national level competition in India, as Engineer Trainee in Bharat Heavy Electricals Limited (BHEL), New Delhi, India (one of the largest public sector organizations in India) (1992).

8. Service activities (within and outside of the institution)

- Contributed to most aspects of development and implementation of program accreditation of B. Sc. in Biomedical Engg. (CAA and ABET); B. Sc. in Mechanical Engg. (CAA).
- Establishment of laboratories in the Mechanical Engineering program.
- Evaluated several Ph. D and M. Sc. theses and undergraduate capstone projects.
- Regularly contribute to several committees at university, college and department level.
- Regularly review scientific papers for international journals and conferences.
- Act as assessor for students' scientific competitions.
- Contributed to organizational activities for international conferences.
- Attended several workshops on international accreditation like ABET, QAA, WSCUC.
- Attended several faculty development workshops.

9. Briefly list the most important publications and presentations from the past five years – title, co-authors if any, where published and/or presented, date of publication or presentation

- Comparative Analysis of Delamination Resistance in CFRP Laminates interleaved by Thermoplastic Nanoparticle: Evaluating Toughening Mechanisms in Modes I and II R Mohammadi, R Akrami, M Assaad, A Imran, M Fotouhi; Composites Part C: Open Access, 100518
- Enhanced Hand Gesture Recognition with Surface Electromyogram and Machine Learning MRK Kadavath, M Nasor, A Imran; Sensors 24 (16), 5231
- Investigating Material Performance in Artificial Ankle Joints: A Biomechanical Study HM Nazha, M Adrah, T Osman, M Issa, A Imran, Y Zhang, D Juhre; Prosthesis 6 (3), 509-526
- Fractographic analysis of damage mechanisms dominated by delamination in composite laminates: A comprehensive review R Mohammadi, M Assaad, A Imran, M Fotouhi; Polymer Testing, 108441
- Polysulfone nanofiber-modified composite laminates: Investigation of mode-I fatigue behavior and damage mechanisms. R Mohammadi, R Akrami, M Assaad, M Nasor, A Imran, M Fotouhi; Theoretical and Applied Fracture Mechanics 127, 104078
- A Case Report of Zygomatic Fracture Reconstruction: Evaluation with Orbital Measurements and Models Registration. Yousof, Khalil, Mhd Ayham Darwich, Khaldoun Darwich, Ghina Allassah, Ahmed Imran, and Hasan Mhd Nazha. 2023. Applied Sciences 13, no. 10: 6154. <https://doi.org/10.3390/app13106154>
- Multivariable Signal Processing for Characterization of Failure Modes in Thin-Ply Hybrid Laminates Using Acoustic Emission Sensors. Fotouhi S, Assaad M, Nasor M,

Imran A, Ashames A, Fotouhi M, 2023. Sensors; 23(11):5244.

<https://doi.org/10.3390/s23115244>

- Estimates of Cruciate Ligament Forces Resulting from Anterior Tibial Translation During Simulated Flexion Motion of the Human Knee. Imran, A. In: Manik, G., Kalia, S., Verma, O.P., Sharma, T.K. (eds) Recent Advances in Mechanical Engineering. Lecture Notes in Mechanical Engineering. Springer, Singapore, 2023. https://doi.org/10.1007/978-981-19-2188-9_80
- Automatic Screening of Diabetic Retinopathy Using Fundus Images and Machine Learning Algorithms. Mujeeb Rahman, K. K., Mohamed Nasor, and Ahmed Imran. 2022. Diagnostics 12, no. 9: 2262. <https://doi.org/10.3390/diagnostics12092262>
- For more publications, please visit:
<https://scholar.google.ac/citations?user=D6UWbSMAAAAJ&hl=en>
or <https://www.scopus.com/authid/detail.uri?authorId=56318469900>

10. Briefly list the most recent professional development activities

Some of the recently conducted / attended workshops are:

- Basics for ABET-EAC Self Study Preparation (*conducted, 03rd October 2024, AU.*)
- ChatGPT in Higher Education
- Difficulty index and distractor efficiency: indicators for MCQs and online assessment tool quality
- Using item (MCQ) analysis to assess reliability and discrimination index of an exam: Impact on online education Interactive Content
- Strategize Online Assessment and Using Online Resources Interactive Content
- Gamification in Education - 1
- How to Plan Online Learning + Online Learning Activities
- Writing Appropriate CLOs and their Correct Mapping to PLOs and Assessment Instr.
- A meeting on how to convert F2F courses to online modality.