



LockDown Browser

Faculty - User Manual

LockDown Browser is a browser which increases the security of exam delivery in Moodle. When students use LockDown Browser to access an exam, they are unable to print, copy, go to another URL, or access other applications. Once an assessment has started, students are locked into the assessment until it is submitted for grading. This e-Service supports the integrity and invigilation of a student taking an online exam.

The Office of Information Technology

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☎ 06-7056500, or Ext.: 6500



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Release Date: Wednesday, March 31, 2021
Version # 1.2

What's new?

Screenshots in [section 2.2](#) has been changed in.

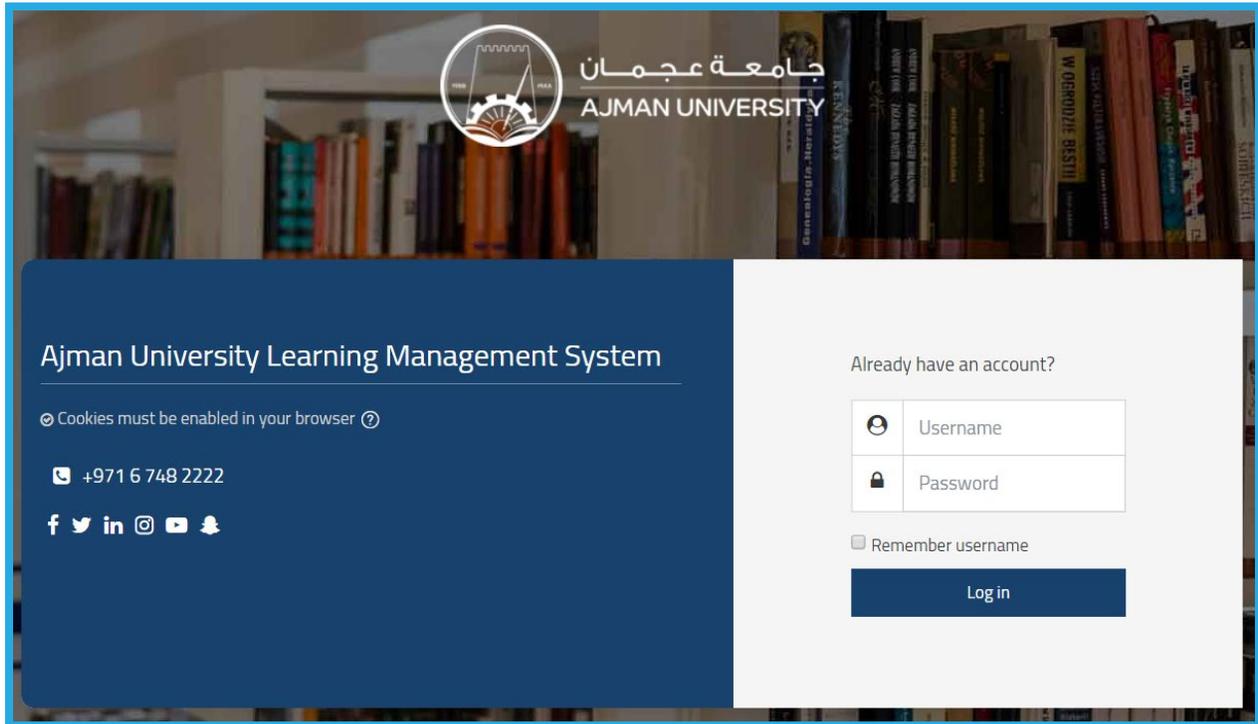
Table of Content

1. Create a quiz.....	3
2. Control the LockDown Browser and web monitor settings	4
2.1 LockDown Browser settings.....	5
2.2 Monitor Webcam settings	7
3. View the class results.....	9

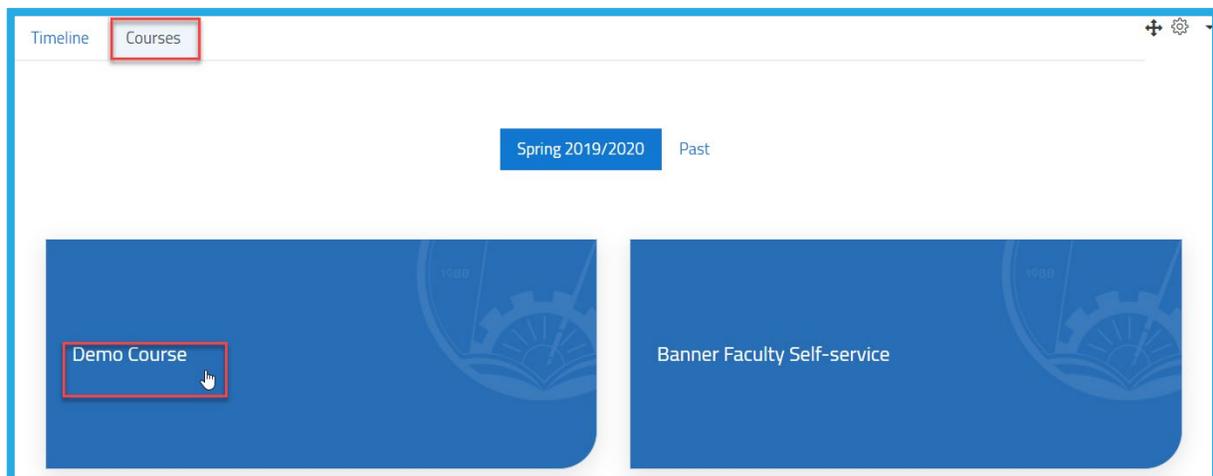
1. Create a quiz

In order to specify using LockDown browser for your online quiz, follow the below steps:

1- Log in to [Moodle](#) using your username without the domain (example: x.lastname, and **not** x.lastname@ajman.ac.ae) and password.



2- Select the course from the Dashboard, as illustrated below:

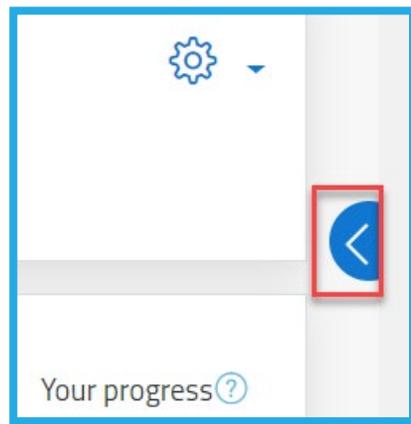


3- Create an Online Quiz. For more details, please refer to the **Online Quiz manual** in the Collection section of Moodle.

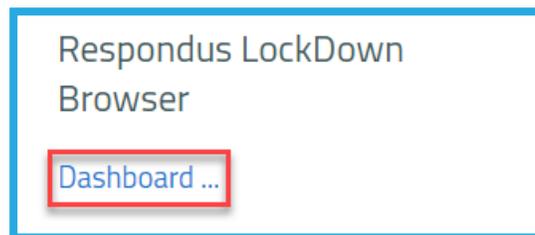
2. Control the LockDown Browser and web monitor settings

After creating the online quiz with the LockDown Browser, control the browser's settings by following the below steps:

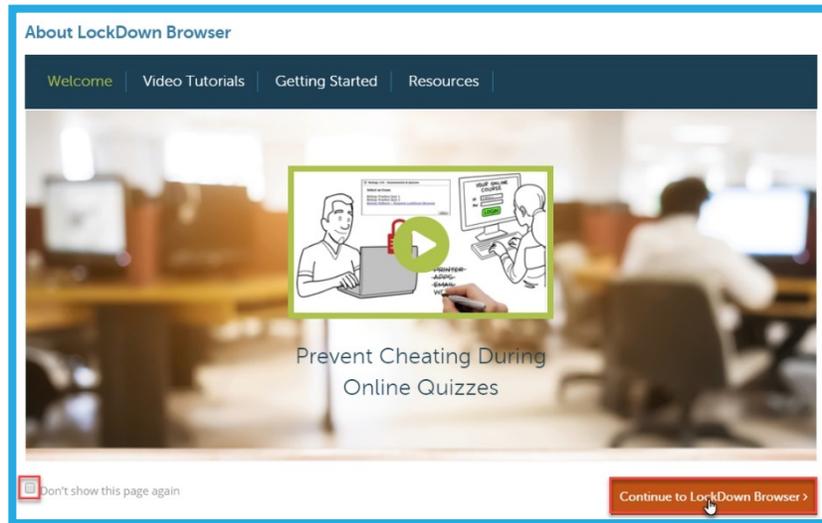
1- Inside the course in Moodle, click on the **arrow** on the right side of the screen, as illustrated below:



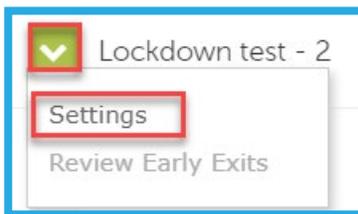
2- A side menu will appear and it includes the Respondus LockDown Browser. Click on the **Dashboard** button as illustrated below:



3- You will be presented by a welcome video, you may tick the **Don't show this page again** box if you want, and then click on the **Continue to LockDown Browser** button, as illustrated below:



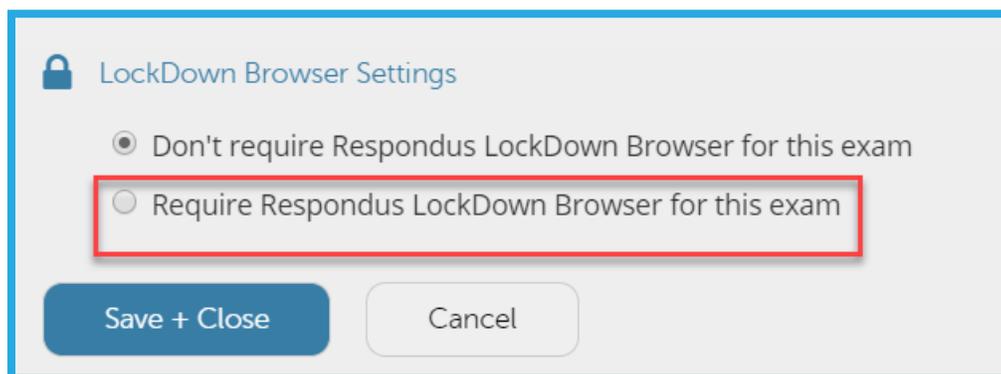
4- You will be able to view the list of quizzes that were created in your course. Find your quiz and click on its drop-down and then on **Settings**, as illustrated below:



2.1 LockDown Browser settings

In this section you will be able to control the browser's setting by following the below steps:

1- In the LockDown Browser Settings, click on the **Require Respondus LockDown Browser for this exam** option, as illustrated below:



2- Maximize the **Advanced Settings** and choose the following:

1. Lock students into the browser until exam is completed: This option prevents the students to exit the browser before submitting the exam.
2. Allow students to take exam with an iPad (using the lockdown Browser app from Apple App Store): This option allows the student to take the exam using his/her iPad. However, the LockDown Browser app should be installed on the iPad to allow him/her to access the exam though the iPad.
3. Allow access to specific external web domain: If you wish to allow the students to view a webpage during the exam, enable this option and enter the link; noting that the students will be able to view the exact web page without navigating to other webpages of the same website (links in the webpage will be disabled).

Note: In order to allow the student to access the webpage, the weblink should be inserted as a hyperlink in the question.

4. Enable calculator on the toolbar: If you wish the students to use a calculator during the exam, enable this option, and you will be able to choose a standard or a scientific calculator.

These options are illustrated below:

The screenshot displays the 'LockDown Browser Settings' interface. At the top, there are two radio buttons: 'Don't require Respondus LockDown Browser for this exam' (unselected) and 'Require Respondus LockDown Browser for this exam' (selected). Below this is the 'Advanced Settings' section, which is expanded. It contains four numbered items:

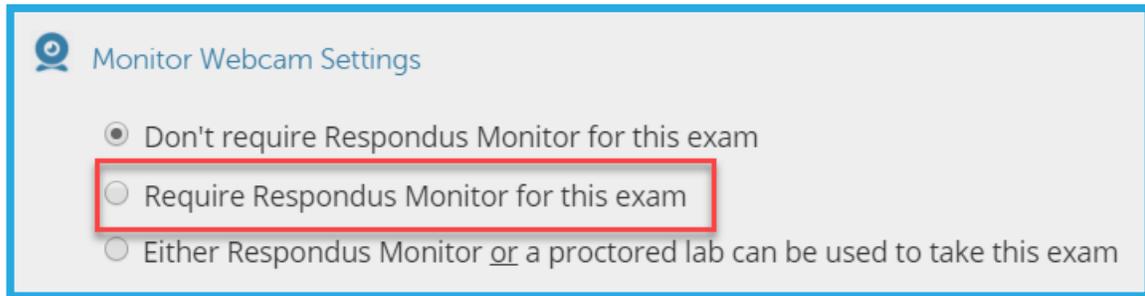
- 1** Lock students into the browser until exam is completed [\[explain\]](#)
Password to close browser and exit exam early (optional)
- 2** Allow students to take this exam with an iPad (using the "LockDown Browser" app from the Apple App Store) [\[explain\]](#)
- 3** Allow access to specific external web domains [\[explain\]](#)
Enter one or more web domains, separated by commas
(e.g. algebra-ebooks.com,calculus-ebooks.com)
- 4** Enable Calculator on the toolbar [\[explain\]](#)
 - Standard Calculator
 - Scientific Calculator

At the bottom of the 'Advanced Settings' section, there is an unchecked option: Enable Printing from the toolbar [\[explain\]](#)

2.2 Monitor Webcam settings

In this section you will be able to control the webcam setting by following the below steps:

1- In the Monitor Webcam Settings, click on the **Require Respondus Monitor for this exam** option, as illustrated below:



2- You need to set the exam startup sequence as the following:

1. Webcam Check: By default, the webcam of the student will be monitored.
2. Additional Instructions: Enable this option to direct students to not access any resources or communicate with other people during the exam, etc.
3. Guidelines + Tips: Enable this option to present students with tips to follow during the exam.
4. Student photo: **This option must be enabled**, where the students will take a photo of themselves using the webcam.
5. Show ID: **This option must be enabled**, where the students will take a photo of their ID using the webcam.
6. Environment Check: Enable this option to have the students take a short video of their surroundings during the exam.
7. Facial Detection Check: This is by default enabled to detect the facial features of the students during the exam.

These options are illustrated next page:

 Monitor Webcam Settings

Don't require Respondus Monitor for this exam
 Require Respondus Monitor for this exam
 Either Respondus Monitor or a proctored lab can be used to take this exam

Startup Sequence

The Startup Sequence is the set of optional events that occur before a Monitor webcam session begins. You can choose the items to be included in the Startup Sequence, and can edit the text unless it has been locked by the administrator.

1	<input checked="" type="checkbox"/> Webcam Check Preview
2	<input checked="" type="checkbox"/> Additional Instructions Preview
3	<input checked="" type="checkbox"/> Guidelines + Tips Preview
4	<input checked="" type="checkbox"/> Student Photo Preview
5	<input checked="" type="checkbox"/> Show ID Preview
6	<input checked="" type="checkbox"/> Environment Check Preview
7	<input checked="" type="checkbox"/> Facial Detection Check Preview

3- Facial Detection Options must be enabled, as illustrated below:

 Facial Detection Options

Prevent students from starting the exam if face cannot be detected during Startup Sequence. [\[explain\]](#)
 Notify students **during** the exam if face cannot be detected (prompt for a fix) [\[explain\]](#)

4- The second option in the Advanced Settings should be enabled, as illustrated below, only if you are using a Record Audio question type in the online quiz.

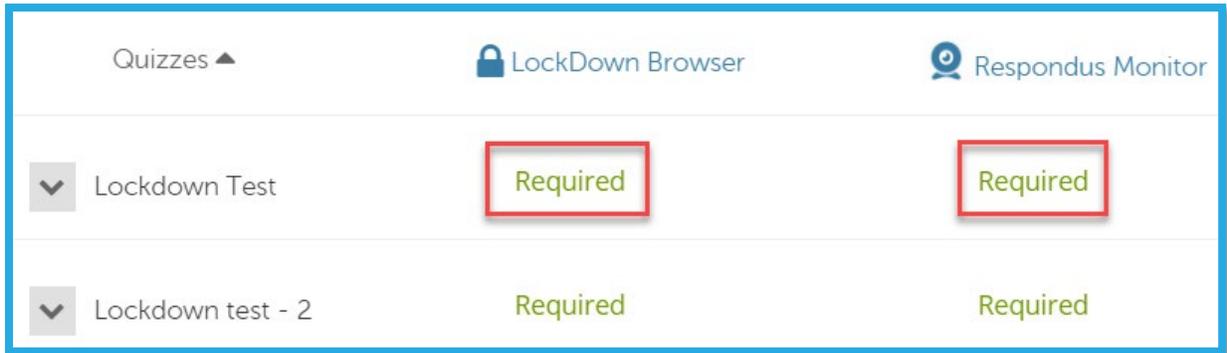
 Advanced Settings

Allow this exam to additionally be delivered in a proctored lab
 Note: Students taking the exam in a proctored lab will not need to use Respondus Monitor, but they will still need to use LockDown Browser. A password **must** be used with the exam and you will need to provide the password to the proctor.
 Exam password (required)

Allow another application to use the microphone during this exam. [\[explain\]](#)
 Enter a demo student username for use by the instructor: [\[explain\]](#)

5- Click on the **Save + Close** button.

6- You will be able to view the quiz test settings as illustrated below:



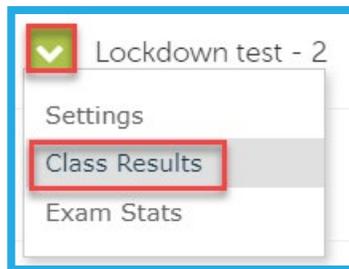
Quizzes ▲	LockDown Browser	Respondus Monitor
▼ Lockdown Test	Required	Required
▼ Lockdown test - 2	Required	Required

Note: If there is an error in one of the columns above, click on Fix Now button and it will be fixed automatically. If that did not work, contact the HelpDesk on Helpdesk@ajman.ac.ae (with a screenshot of the error) or by calling 06-7056500.

3. View the class results

The class results allow you to review the student photo, ID, exam environment (if applicable), and the exam session video. It also allows you to view any flags during the exam session.

Once your students have completed the exam you will be able to view the class results by following the first three steps of [section 2](#) and then click on the drop-down next to the exam title and then on **Class results**, as illustrated below:



You will be presented by the list of students and several statistics in terms of number of students who completed the exam and who did not attempt it yet, and number of students for each review priority.

Note: Review Priority is a comprehensive measure that conveys whether a student's exam session warrants a closer look by the instructor. Results appear in Low, Medium, and High categories with a green-to-red bar graph conveying the risk level.

Below is an example of the class results:

LockDown Browser Dashboard

Quizzes ▾

LockDown Browser Respondus Monitor

Geography Midterm Exam on Flags - Requires Respondus LockDown Browser + Webcam

9 completed | 1 processing | 1 not attempted

2 high priority | 2 medium priority | 5 low priority [How is priority determined?](#)

Last	First	Status	Review Priority	Date	Score	Duration	Notes
Adler	Jane	✓	HIGH	29 Mar 2018 @ 12:43AM	71.1	33:45	
Meainrad	Angelina	✓	HIGH	19 Mar 2018 @ 9:43AM	94.0	10:55	
Poseidon	Devin	✓	MED.	19 Mar 2018 @ 8:34AM	93.0	10:12	
Smithsonian	Sebastian	✓	MED.	12 Mar 2018 @ 8:17AM	71.0	12:30	
Loebwin	Helen	✓	LOW*	9 Mar 2018 @ 10:41AM (Attempt 3)	71.1 *	33:45	
Gismund	Ravi	✓	LOW	8 Mar 2018 @ 7:33AM	94.0	10:55	
Adelmar	Linda	✓	LOW	10 Mar 2018 @ 9:03AM	85.4	9:55	
Genova	Aliksandr	✓	LOW	13 Mar 2018 @ 9:15AM	71.0	12:30	
Damodar	Felix	✓	LOW	9 Mar 2018 @ 9:55AM	78.0	12:15	
Roan	Marcelina	⊙					
Dominica	Zahira	—					

* Student completed multiple attempts, so the priority and score shown may not be for the attempt shown.

Close

As illustrated below, you can sort the students based on the name, ID, review priority, score, duration, etc.

Last ▾ First ▾ Review Priority ▾ Date ▾ Score ▾ Duration ▾ Reviewed ▾ Notes ▾

You can expand the details of a student's exam session by clicking on the + sign next to their name, as illustrated below:

Last ▾

+ Student

Below is an explanation of a student's exam session:

The screenshot shows a web browser window titled "Geography Midterm Exam on Flags - Requires Respondus LockDown Browser + Webcam". The interface includes a summary of exam status (9 completed, 1 processing, 1 not attempted) and a table of flags. A video player shows a student named Jane Adler with a "HIGH" review priority. A sidebar on the right lists flags and milestones, such as "Exam Start" and "Question 1 Answered". A timeline below the video player shows red bars for flags and blue bars for milestones. At the bottom, a grid of thumbnail images shows key moments from the video.

1 Summary of Key data

2 List of flags and milestones

3 Video playbacks and controls

4 Timeline with flags (red) and milestones (blue)

5 Thumbnail images from video

Below is the list of possible flags that you might encounter:

- **Missing from Frame** – the student could not be detected in the video frame for a period of time.
- **Different person in Frame** – a different person from whom started the exam may have been detected in the video frame for a period of time.
- **Multiple persons in Frame** – multiple faces are detected in the video for a period of time.
- **An Internet interruption occurred** – a video interruption occurred as a result of an internet failure.
- **Video frame rate lowered due to quality of internet connection** – if a poor upload speed is detected with the internet connection, the frame rate is automatically lowered for the webcam video.
- **Student exited LockDown Browser early** – the student used a manual process to terminate the exam session early; the reason provided by the student is shown.
- **Low Facial Detection** – facial detection could not be achieved for a significant portion of the exam.
- **A webcam was disconnected** – the web camera was disconnected from the computing device during the exam.
- **A webcam was connected** – a web camera was connected to the computing device during the exam.
- **An attempt was made to switch to another screen or application** – indicates an application-switching swipe or keystroke combination was attempted.
- **Video session terminated early** – indicates the video session terminated unexpectedly, and that it didn't automatically reconnect before the exam was completed by the student.
- **Failed Facial Detection Check** – facial detection could not be achieved during the Facial Detection Check portion of the startup sequence.
- **Student turned off facial detection alerts** – the student selected "Don't show this alert again" when the facial detection alert appeared during the assessment. The student did not receive alerts after this.

Note: Flags aren't cheating. Flagged events and the Review Priority value don't determine whether a student has cheated or not. Rather, they are tools to help identify suspicious activities or situations where the data is of too low of a quality to analyze.

Below is the list of possible milestones that you might encounter:

- **Question X Answered** – an answer to the question was entered (or changed) by the student.
- **Pre-Exam** – the webcam recording that occurs between the environment check and the start of the exam.
- **Exam Start** – the start of the exam.
- **End of Exam** – the exam was submitted.