

Students Guide

IPRCs Version 4.1.1

Table of contents

List c	of figures	2
1.	Introduction	1
2.	Accessing the platform	1
3.	Accessing the course	3
4.	Submitting assignments	4
5.	Participate in the forum discussion	7
	Passing Quiz	

List of figures

Figure 1. Homepage	1
Figure 1. Homepage Figure 2. Login Page	2
Figure 3. O365 Login	2
Figure 4. O365 Login Password	3
Figure 5. My Courses	3
Figure 6. Course View	4
Figure 7. Assignment activity	5
Figure 8. Add a submission.	
Figure 9. Add a file	6
Figure 10. Submit assignment	6
Figure 11. open forum	
Figure 12. Open discussion	8
Figure 13. Comment to a discussion	
Figure 14. Discussion Page	9
Figure 15. Attend a Quiz	9
Figure 16. attempt a quiz	10
Figure 17. Start attempt	10
Figure 18. Questions Page	
Figure 19. Finish attempt	11
Figure 20. Submit and finish	12

1. Introduction

This document focusses on how students interact with the platform for accessing course, working on assignments, passing quizzes, and participating in a discussion. Below, are steps numbered from one that shows all the interactions. Figures in this guide are labeled in red color. Those are referenced in this document mostly within parenthesis.

2. Accessing the platform

For the student to access the platform, they should browse to <u>https://elearning.rp.ac.rw</u> [1] and click on the link labeled Log in [2].

← → C a elearning.rp.ac.rw	순 ☆ 팩 土 🛛 🧍 :
Home User Guides + eLearning Youtube channel	Q 🔯 English (en) 🗸 Log in
Site announcements	2
Minor System Upgrades Completed by Admin User - Saturday, 9 September 2023, 11:19 AM	
Dear Valued User, We are pleased to inform you that we have successfully completed minor upgrades to our platform. The performance, stability, and overall user experience. We appreciate your patience and understanding dur If you have any questions or encounter any issues while using the platform, please do not hesitate to co here to assist you and address any concerns you may have. You can reach our support team through the following channels: Email: e-learning@rp.ac.rw	ing this process.
Phone:(+250)788303819 or (+250)783025301	Permiliek.
Figure 1. Homepage	

You will be redirected to the log in page and it will prompt you to provide username and password [2A]. This only applies to existing students.

Q @ ☆ □ 🖗 :

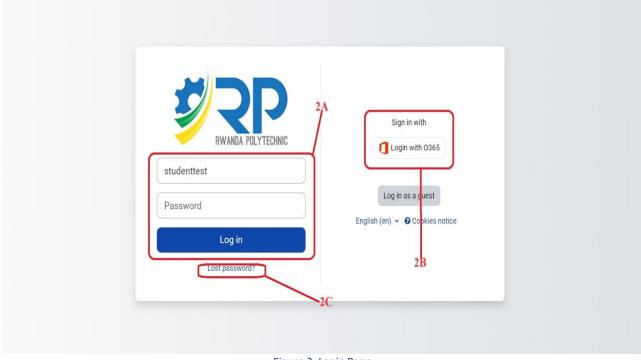


Figure 2. Login Page

For New Students, Login with O365 by clicking the link [2B], You will redirected to office 365 Login Page, and put in your email address [3A] (i.e. <u>22rp00001@stud.rp.ac.rw</u>) and click next [3B] to enter your password [3C], then Sign in [3D]. For the first login, the default password here is **MyP@word!** and you will be prompted to change it!

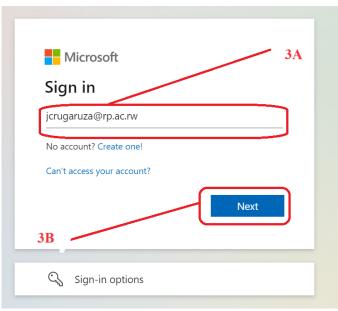


Figure 3. O365 Login



Figure 4. O365 Login Password

3. Accessing the course

After the student has logged in, they will be redirected to **My Courses [4A]** page. There they will be able to view their courses, upcoming activities, and many other important links. You can search **[4B]** for any course that you are enrolled in. Use Navigation bar **[5]** to see more courses

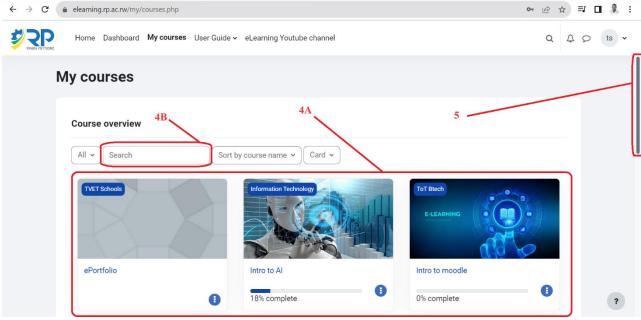


Figure 5. My Courses

If You open a course, you will see course description, announcements if there are any, course activities and resources. You can expand the menu labeled [6] to see navigation of different sections or learning units.

←	\rightarrow G	🗎 elearning.rp.ac.rw/course/view.php?id=5200	9 🔲 🏶 :
\$		Home Dashboard My courses User Guide - eLearning Youtube channel	♀ ts ▾
		Course Participants Grades Competencies Usage Statistics	
		Introduction to Embedded Systems	<
		✓ Module Description Collapse all Collapse all	
	6	By completion of this course, successful participants will be able to: Perform effectively as entry level Embedded Systems professionals . Develop and maintain applications written using Embedded C. Independently design and develop a hardware platform encompassing a microcontroller and peripherals.	
		Learning Units:	
		1. Signal Processors	
		2. Digital Processors	
		3. Automation	
		CORUM	?

Figure 6. Course View

Each course unit has many activities such as files, assignments, URLs, Forums, and Quizzes. Much more activities might be available depending on the course. To successfully complete a course unit, students should complete all underlying activities. For doing that, a student clicks on a desired activity and complete it.

4. Submitting assignments

To submit an assignment, students will have to add a submission and then submit it.

To add a submission to click on the activity (assignment) [7] and get redirected on the assignment page. You can see the availability of the assignment when it is open and when it is due [8]. Also, conditions that are set by the instructor for the assignment to be marked as complete can be seen here [9].

\leftrightarrow \rightarrow G	elearning.rp.ac.rw/course/view.php?id=5200	ⓒ☆ 록 ∎ 💈 :
EXAMPLA PROTECTIONS	Home Dashboard My courses User Guide - eLearning Youtube channel	Q Q D ts ·
	Course Participants Grades Competencies Usage Statistics	
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	ASSIGNMENT Embedded System Design 7 7 9 7 7 9 7 7 9 7 7 0 0 7 7 0 0 7 7 0 0 7 7 0 0 7 7 0 0 7 7 0 0 7 0 0 7 0 0 7 0 7 0 0 7 0 0 7 0 7 0 7 0 7 0 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 0 0 7 0 7 0 0 7 0 7 0	
	Opened: Thursday, 14 September 2023, 12:00 AM Due: Wednesday, 20 September 2023, 12:00 AM	
	This homework is an individual assignment, collaboration is not allowed. Show your work and describe your reasoning to get partial credit if your solution is incorrect. Unless otherwise specified, assume problems refer to the Arduino board we are using. This assignment is out of 100 points, but is equally weighted with other homewo assignments.	rk
	QUIZ Mark as	e done
	Figure 7. Assignment activity	

The assignment questions can be found in the description of the assignment or in the assignment file [10]. To add a submission, student will click on add submission [10A].

Home Dashboard My cours	es User Guide 🛩 eLearning Youtube channel	Q	۵ ¢	P (ts 🗸	
Assignment Assignment	on Embedded System Design	$IES101 \Rightarrow Assignment$ on Embedded System Des	ign			
✓ Done: View To do: Make a	submission To do: Receive a grade					
Opened: Thursday, 14 Sep Due: Friday, 20 October 20						
	idual assignment, collaboration is not allowed. Show your work and describe your reaso as refer to the Astenno board we are using. This assignment is out of 100 points, but is e 5 October 2023, 11:48 AM					
Add submiss	10A					
Submission status	No submissions have been made yet					
Grading status	Not graded					
Time remaining	13 days 14 hours remaining				?	
Last modified	·				0	

Figure 8. Add a submission.

Depending on the submission settings, a submission can be an online text, or a File. In this example, it is set to submit a file. To do that, browse a file [11] from your computer and upload your submission file. A student will have to explicitly save changes [12].

← → C	elearning.rp.ac.rw/mod/assign/view.php?id=26049&action=editsubmission	요 ☆ 팩 🛛 🌒 :
VRAMEA FRAME	Home Dashboard My courses User Guide - eLearning Youtube channel	Q A D ts ~
	solution is incorrect. Unless otherwise specified, assume problems refer to the Arduino board we are using. This as but is equally weighted with other homework assignments.	ssignment is out of 100 points,
	 Add submission 	
	File submissions Maximum file size: 250 I	MB, maximum number of files: 20
	11 You can drag and drop files here to add them	
	12 Cancel	······································
		?

Figure 9. Add a file

 After adding a submission file and save changes, now you can click the button to submit the assignment [12A]. Before submitting, you still have options to edit the submission or even remove it [12B] and add a new one. The file that is submitted can be seen here [12C].

PANER PRYTEME	lome Dashboard My course	s User Guide – eLearning Youtube channel	Q
	✓ Done: View To do: Make a	submission To do: Receive a grade	
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	Submit assign		
	Submission status	Draft (not submitted)	
	Grading status	Not graded	
	Time remaining	13 days 14 hours remaining	
	Last modified	Friday, 6 October 2023, 9:31 AM	
	File submissions	Embedded Systems Assignment submission.docx6 October 2023, 9:31 AM	

Figure 10. Submit assignment

5. Participate in the forum discussion.

The forum provides asynchronous discussion amongst students and teachers. Students can access the forum by clicking on the forum activity **[13]**. Details such as the availability of the forum and the description of it can be seen as well **[14]**.

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	Course	Participants	Grades	Competencies	Usage Statistics	
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		FORUM Open Disc	ussion on Dig	gital Processing	To do: Make forum posts: 1	
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Figure 11. open forum

Opening a forum activity, Discussion topic (s) will be displayed [15], Now you can open a topic to add your reply or a comment and post to a forum as well.

EVALUATE POLITICANE	Home Dashboard My courses User Guide 🗸 eLearning Youtu	be channel			Q	4
	To do: Make forum posts: 1					
	Due: Wednesday, 13 September 2023, 10:49 AM					
	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do nostrud exercitation ullamco laboris nisi ut aliquip ex ea commo		magna aliqua. Ut enim ac	l minim veniam,	quis	
	Search forums Q			Subscribe	e to forum	
	The cut-off date for posting to this forum is reached so you can	n no longer post to it.				
	View grades	5				
	Discussion	Started by	Last post ↓	Replies Subs	cribe	
	VLSI and Embedded Systems	Teacher Gui 13 Sep 2023	Teacher Gui <u>13 Sep 2023</u>	0	I	
	Figure	12. Open discussion				

Now you can add your reply, a comment or a post to a topic created by your instructor even your colleague by clicking reply [16]. Write Your comment or reply [17] and Post to forum [18].

Home Dashboard My courses User Guide - eLearning Youtube channel Q	Δ	Q	ts •	
Open Discussion on Digital Processing IES101 > Open Discussion on Digital Processing > VLSI and Embedded Sys	stems			
VLSI and Embedded Systems				
Display replies in nested form Settings				
The due date for posting to this forum is Friday, 13 October 2023, 10:49 AM.				
VLSI and Embedded Systems by <u>Teacher Guide</u> - Wednesday, 13 September 2023, 11:36 AM				
Discuss on difference between VLSI and embedded systems 17				
Permalink Reply				
Write your reply				
Post to forum Cancel Advanced				
			?	

Figure 13. Comment to a discussion

Discussion thread is displayed where students can see other students' reactions to the original post [19].

APRIVILIANE	ome Dashboard My courses User Guide - eLearning Youtube channel
	VLSI and Embedded Systems
	Display replies in nested form
	The due date for posting to this forum is Friday, 13 October 2023, 10:49 AM.
	VLSI and Embedded Systems by <u>Teacher Guide</u> - Wednesday, 13 September 2023, 11:36 AM
	Discuss on difference between VLSI and embedded systems
	Permalink Reply
	Re: VLSI and Embedded Systems by test student - Wednesday, 4 October 2023, 11:39 AM
	VLSI technology is primarily focused on improving the performance and efficiency of electronic devices, while embedded systems are focused on controlling and monitoring specific functions within a device.
	Permalink Show parent Edit Delete Reply Export to portfolio
	Re: VLSI and Embedded Systems by Admin User - Wednesday, 4 October 2023, 11:40 AM
	VLSI: VLSI refers to the design and manufacturing of integrated circuits (ICs) that contain a large number of transistors and other components on a single chip. It deals with the development of complex electronic systems at the chip level. Embedded Systems: Embedded systems are specialized computing systems designed to perform specific tasks or functions within a larger system. They often include a
	Entraced systems interprocessor, memory, input/output interfaces, and software to control the hardware.

Figure 14. Discussion Page

6. Passing Quiz

Quizzes are part of activities a student can interact with. Once the teacher has set a quiz, students can access it by clicking on the quiz activity with quiz description [20].

Home	Dashboard M	y courses	User Guide ✓ eLe	arning Youtube channel	Q	Ą	9	ts	~
Course	Participants	Grades	Competencies	Usage Statistics					
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	Quiz 1	J			Mark as done				
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This assignment is out of 100 points. Image: Course of the Arduino Doard we are using. The Ard we are using. The Ard we are using. The A

Figure 15. Attend a Quiz

The Quiz page shows with details such as description, attempts allowed, time limit, and its availability. To start the quiz, a student has to click the attempt quiz button [21], and a window will pop up to start the attempt [22].

PR		Home	Dashboard	My courses	User Guide	✓ eL	Learning \	Youtul	ıbe chaı	nnel								Q	¢	Q	
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	(Attempt	ot quiz				21														
			it: 45 mins																		
		Grade to	pass: 15.00 d	out of 20.00																	
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QUIZ Quiz 1		IE
Mark as done	Start attempt ×	
Opened: Wednesday, 13 Ser. Closes: Friday, 13 October 2 Lorem ipsum dolor sit amet, Attempt quiz	Time limit Your attempt will have a time limit of 45 mins. When you start, the timer will begin to count down and cannot be paused. You must finish your attempt before it expires. Are you sure you wish to start now?	liqua.
Attempts allowed: 1 Time limit: 45 mins		
Grade to pass: 15.00 out of 20.0	00	

Figure 17. Start attempt

List of questions are displayed on Quiz Page **[23]**, by default 5 questions are displayed on a single page. But it depends on the settings, click next page until you finish all questions.

EXAMPLA PRLYTEDAN	Home Das	hboard My courses User Guide 🗸 eLearning Youtube channel		23 Q Q O ts ~
	Question 1 Not yet answered Marked out of 1.00 V Elag.question	HDLs, such as VHDL and Java, are Hardware DEscription Language used to describe the structural or behavioral of circuits or electronics. Time left 0:44:42 Select one: O True False		X Quiz navigation 1 2 3 Finish attempt
	Question 2 Not yet answered Marked out of 1.00 V Elag.question	For a processor, the design cost is an NRE cost Select one: O True O False		
	Question 3 Not yet answered	Which of the following task swapping method is a better choice in the embedded systems design?	?	
79°₽		Figure 18. Questions Page	C 📻 🗅	

Once the student finishes the attempt, they confirm submission by clicking finish attempt button [24]. And then click submit all and finish button [25].

Which of the following task swapping method is a better choice in the embedded systems design?
a. Time Slice
O b. Preemptive
○ c. Cooperative Multitasking
Clear my choice
Example 24 Finish attempt

Figure 19. Finish attempt

Quiz 1 Summary of attempt

Summary of attempt		
Question	Status	
1	Answer saved	
2	Not yet answered	
3	Answer saved	
	Return to attempt 25	Time left 0:41:06
	This attempt must be submitted by Wednesday, 4 October 2023, 12:56 PM.	
	Figure 20. Submit and finish	