

QUIZZES USING MOODLE

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THE UNIVERSITY OF JORDAN

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2. Role of Quizzes.
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5. Adding images.



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CONTENTS (2)

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1. ADVANTAGES OF QUIZZES

- Regular Quizzes are a great tool. Five main advantages
 1. They allow the lecturer to ensure that students study regularly throughout the course.
 2. They also ensure that every concept in the course is brought out and discussed (this is not possible with “essay” problems in the mid term exam or final exam).
 3. They test the full knowledge of the student in all areas of the material.
 4. They are formative exams; thus they allow students to adjust their study; they allow the lecturer to adjust his delivery and see the areas of weakness.
 5. Multiple choice problem requires DEEP understanding on the part of the student.



1. ADVANTAGES OF QUIZZES

- MOODLE offers a great tool for Quizzes
6. Questions are built in a question bank.
 7. The question bank has sections and sub-sections that mirror the chapters and sub-chapters of the course.
 8. The lecturer can offer the student more than one attempt (with the average or the best of all marks). This encourages students to learn.
 9. If the lecturer finds an error in a problem, he can ask for a “regrade”.
 10. If a student misses the Quiz, he can be given a password and do the quiz later.



2. ROLE OF QUIZZES

- Quizzes have two main roles.
- They ensure that the student studies regularly.
- They provide feedback to both the student and the lecturer.



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3. FORMATIVE VS SUMMATIVE ASSESSMENTS

Exams are two types:

1. Formative: The aim is to provide feedback to the student and the tutor.
2. Summative: The aim is assessment only.



3. QUIZZES: SELF ASSESSMENT VS TUTOR ASSESSMENT

Quizzes can be used either as:

1. Self assessment quizzes by students themselves to make sure they have studied well and are ready for the real quiz.
2. Tutor Assessment: Quizzes administered by the tutor to check student understanding.




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4. CATEGORIES AND QUESTION BANK




2012-1962
50

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I.sharif 102518
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Monday 16 July 2018

UJ E-Learning Portal > 0908421102518 > Edit categories

Questions Categories Import Export

Edit categories

Question Categories for 'Course: 0908421102518'

- **Default for POWER ELECTONICS AND DRIVE (0)** The default category for questions shared in context 'POWER ELECTONICS AND DRIVE'. ✖ ✎
- **01 Introduction and Basic Concepts (14)** ✖ ✎
- **02 Power Electronic Components (18)** ✖ ✎
- **03 Average and RMS Calculations for Waveforms (10)** ✖ ✎
- **04 Harmonics, Fourier Series and Orthogonality (10)** ✖ ✎
- **05 Power Factor (18)** ✖ ✎
- **06 AC to DC Converters (Rectifiers) (0)** ✖ ✎
- **07 DC to DC Converters (0)** ✖ ✎
- **08 DC to AC Converters (Inverters) (0)** ✖ ✎
- **09 AC to AC Converters (0)** ✖ ✎



4. TYPES OF PROBLEMS IN MOODLE

1. Description (usually used as an introduction to a set of problems).
2. Multiple choice.
3. Numerical.
4. Matching.
5. True/False.
6. Short text.
7. Essay.



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4. TYPES OF PROBLEMS IN MOODLE

Monday 16 July 2018

UJ E-Learning Portal ▶ 0908463102518 ▶ Edit questions

Questions Categories Import Export

Question bank

Category: 03 Energy and Power in Hydraulic Systems (15)

Display questions from sub-categories too
 Also show old questions
 Show question text in the question list

Create new question: Choose...
Sort by name

Action	Question name	Type
<input type="checkbox"/>	01-06 Match the following questions with their correct answers.	☰
<input type="checkbox"/>	07 converting from head to pressure	☰
<input type="checkbox"/>	08 converting from pressure to head	☰
<input type="checkbox"/>	09 pressure units as joules per cubic meter	☰
<input type="checkbox"/>	10 flow into a hydraulic cylinder depends on the area of the piston and the speed	••
<input type="checkbox"/>	11 Force from a hydraulic cylinder depends on the pressure and the area	••
<input type="checkbox"/>	12 mechanical clamping device 1	☰
<input type="checkbox"/>	13 mechanical clamping device 2	☰
<input type="checkbox"/>	14 The two basic assumptions for Bernoulli's equation	☰
<input type="checkbox"/>	15 Bernoulli's equations energy components	☰
<input type="checkbox"/>	16 Applications of Bernoulli's equation in flow metering	☰
<input type="checkbox"/>	17 hdyraulic jack problem (P3_30)	☰
<input type="checkbox"/>	18 hdyraulic jack problem (P3_30)	☰
<input type="checkbox"/>	19 hdyraulic jack problem (P3_30)	☰
<input type="checkbox"/>	20 the Siphon	☰

Select all / Deselect all
With selected: 03 Energy and Power in Hydraulic Systems (15)

Delete Move to >>

You are logged in as l.sharif 102518 (Logout)




4. TYPES OF PROBLEMS IN MOODLE: MATCHING PROBLEM

Preview 01-06 Match the following questions with their correct answers.

1
Marks: --/6

The output power from a hydraulic cylinder is:	<input type="text" value="Choose..."/>
The input power to a hydraulic pump is equal to:	<input type="text" value="Choose..."/>
The input power to a three phase induction motor is equal to:	<input type="text" value="Choose..."/>
The input power to a dc electric motor is equal to:	<input type="text" value="Choose..."/>
The input power to a hydraulic cylinder is equal to:	<input type="text" value="Choose..."/>
The input power to a single phase induction motor is equal to:	<input type="text" value="Choose..."/>

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 **UJ E-Learning**
Forward Together



4. TYPES OF PROBLEMS IN MOODLE: MULTIPLE CHOICE

Preview 20 the Siphon

1

Which of the following statements is true of the siphon?

Marks: 1/1

Choose one answer.

- a. The siphon is a device that can be used to move liquid from a lower tank to an upper tank.
- b. The siphon is a device that allows the storage of a liquid into a high pressure container.
- c. The siphon is a device that can be used to move liquid from an upper tank to a lower tank.
- d. The siphon is a device that allows the equalisation of pressure between two containers.

Submit

Correct

Marks for this submission: 1/1.

Submit page

Submit all and finish

Fill with correct

Previous state

Start again

Close preview

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4. NUMERICAL PROBLEMS: UNITS

1. You can either allow the student to pick a unit. In this case you must provide the multipliers for the different units.
2. If you use a multiplier, remember that the student must enter the unit that has a multiplier in the correct case (i.e., uppercase or lowercase).
3. For each unit the multiplier is the number that is multiplied by the CORRECT answer and then compared to the student's answer.
4. Or you can specify what unit the student should provide his/her answer in.



4. TYPES OF PROBLEMS IN MOODLE: NUMERICAL PROBLEM

Preview 07 converting from head to pressure

1

Marks: 1/1

A system uses water in a fluid power system. What is the pressure (in kPa) equivalent to a head of 70 m? (answer to one decimal place).

Answer:

686.7 kPa

Submit

Correct

Marks for this submission: 1/1.

Submit page

Submit all and finish

Fill with correct

Previous state

Start again

Close preview

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4. TYPES OF PROBLEMS IN MOODLE: NUMERICAL PROBLEM

Blanks for 2 More Units

Unit 1

Unit

Multiplier

Unit 2

Unit

Multiplier

Unit 3

Unit

Multiplier

Unit 4

Unit

Multiplier

Unit 5

Unit

Multiplier

Blanks for 2 More Units



4. SHORT TEXT

1. The student must answer with a short word or a couple of words.
2. In order to avoid mistakes, you can use wildcards such as ? and *.
3. The asterisk sign * matches zero or more characters.
4. The question mark ? matches a single character.
5. The number sign # matches a single digit (0-9).



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4. TYPES OF PROBLEMS IN MOODLE: SHORT TEXT PROBLEM

Preview 14 The two basic assumptions for Bernoulli's equation

1

Bernoulli's equation is based on the conservation of energy and the conservation of _____.

Marks: 1/1

Answer:

Submit

Correct

Marks for this submission: 1/1.

Submit page

Submit all and finish

Fill with correct

Previous state

Start again

Close preview

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4. TYPES OF PROBLEMS IN MOODLE: TRUE/FALSE PROBLEM

Preview 10 flow into a hydraulic cylinder depends on the area of the piston and the speed

1 The required volumetric rate flow into a hydraulic cylinder is equal to the product of the velocity of the piston and its area.

Marks: 0/1

Answer:

True

False

Submit

Incorrect

Marks for this submission: 0/1. This submission attracted a penalty of 1.

Submit page

Submit all and finish

Fill with correct

Previous state

Start again

Close preview

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4. SAVE A NEW PROBLEM (GREAT FEATURE!)

Created by *I.sharif 102518* on *Saturday, 9 June 2018, 02:33 AM*
Last saved by *I.sharif 102518* on *Saturday, 9 June 2018, 02:34 AM*

There are required fields in this form m

You are logged in as *I.sharif 102518* ([Logout](#))



5. ADDING IMAGES TO A PROBLEM

1. You must first add the image to the COURSE folder (anywhere in the course folder).
2. You can do this by selecting “Files” from the left hand menu.
3. Then when you are in the problem, you can select “Select image to display”.



5. ADDING IMAGES

Advanced search

Administration

- Turn editing on
- Settings
- Assign roles
- Grades
- Groups
- Backup
- Restore
- Import
- Reset
- Reports
- Questions
- Files
- Unenrol me from 0908463102518
- Profile

My courses

The General Ap
A Novel Way of Thinkin
 A Novel Way of

2 Physical Prope
 Summary of Chapt
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 You Tube Playli
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as problems caused by
 Problems of Hig
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absolute viscosity and
 Understanding t
The following problem
It shows how the visco
 Solved Problem
The following hand-writ
units of viscosity.
 Conversion betw
The following file conta
power systems and no
 Fluid Properties

Format	Moodle auto-format
Image to display	No images have been uploaded to your course yet
Default question grade*	<input type="text" value="1"/>
Penalty factor*	<input type="text" value="0"/>
General feedback	

Format	Moodle auto-format
Image to display	<input type="text" value="Quizzes/Quiz_4/Unbalanced-vane-pump.png"/>
Default question grade*	<input type="text" value="1"/>
Penalty factor*	<input type="text" value="0"/>
General feedback	

6. CREATING AND ACTIVATING THE QUIZ

1. Once you have built the problems, you need to create the quiz and activate it.
2. Create the quiz by “adding an activity” anywhere you want in the course.
3. Go to the quiz and copy the URL.
4. Send the URL to Hani Ayyoub or Aman Rahahleh, requesting activation.
5. Once activated, you will be able to “Edit” (i.e., add problems to the quiz).



6. CREATING AND ACTIVATING THE QUIZ

UJ E-Learning Portal ▶ 0908463102518 ▶ Quizzes ▶ Quiz 8: Hydraulic Valves

Update this Quiz Blocks editing off

Info Results Preview

Quiz 8: Hydraulic Valves

Time limit: 15 mins

No questions have been added yet

Blocks

Add... ▼

UJ E-Learning Portal ▶ 0908463102518 ▶ Quizzes ▶ Quiz 1 (Introduction and Basic Concepts; Fluid Properties), 9th June 2018

Update this Quiz Blocks editing off

Info Results Preview Edit

Quiz 1 (Introduction and Basic Concepts; Fluid Properties), 9th June 2018

This quiz closed on Sunday, 10 June 2018, 08:30 PM

Attempts: 49

Blocks

Add... ▼



7. ADDING QUESTIONS TO THE QUIZ

Attempts: 83
You cannot add or remove questions because there are attempts.

Order	#	Question name	Type	Grade	Action
	1	01 Velocity profile of the fluid in the pipe <small>Page break</small>		1	
	2	02 The Reynolds Number represents the ratio between inertial forces and viscous forces <small>Page break</small>		1	
	3	03 Head losses and pressure losses in a pipe carrying water (velocity of fluid) <small>Page break</small>		1	
	4	04 Head losses and pressure losses in a pipe carrying water (Reynold Number) <small>Page break</small>		1	
	5	05 Head losses and pressure losses in a pipe carrying water (Frictional Factor) <small>Page break</small>		1	
	6	06 Head losses and pressure losses in a pipe carrying water (Head Loss in m) <small>Page break</small>		1	
	7	07 Head losses and pressure losses in a pipe carrying water (Head Loss in pressure) <small>Page break</small>		1	
	8	08 Head Loss in 90 degree bend (speed of fluid) <small>Page break</small>		1	
	9	09 Head Loss in 90 degree bend (Head loss in m) <small>Page break</small>		1	
	10	10 Head Loss in 90 degree bend (equivalent lenght in m) <small>Page break</small>		1	
	11	11 effect of surface roughness on the losses <small>Page break</small>		1	
	12	12 effect of kinematic viscosity on the type of flow <small>Page break</small>		1	

Total: 12
Maximum grade: 12

Show page breaks
Repaginate with questions per page

Show the reordering tool

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8. CONTROLLING THE TIME AND DURATION

Timing

Open the quiz Disable

Close the quiz Disable

Time limit (minutes) Enable

Time delay between first and second attempt

Time delay between later attempts

Display

Questions per page

Shuffle questions

Shuffle within questions

Attempts

Attempts allowed

Each attempt builds on the last

Adaptive mode

Grades

Grading method

Apply penalties

Decimal digits in grades

Review options

Immediately after the attempt	Later, while the quiz is still open	After the quiz is closed
<input type="checkbox"/> Responses	<input type="checkbox"/> Responses	<input type="checkbox"/> Responses
<input checked="" type="checkbox"/> Answers	<input checked="" type="checkbox"/> Answers	<input checked="" type="checkbox"/> Answers
<input type="checkbox"/> Feedback	<input type="checkbox"/> Feedback	<input type="checkbox"/> Feedback



9. MULTIPLE ATTEMPTS

1. It is possible to allow students to take multiple attempts.
2. You can force the students not to retake until a certain time has elapsed (e.g., 6 hours) to force him/her to study.
3. This encourages the student to study more and master the material.
4. You can then take the average of the attempts or the highest mark of the attempts.
5. (Gamification!)



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10. RESULTS



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Wednesday 04 April 2018

UJ E-Learning Portal ▶ 0908323102518 ▶ Quizzes Edit questions

Section	Name	Attempts
11	Quiz 1: Revision and Basics	Attempts: 71
	Quiz 2: Magnetic Circuits	Attempts: 113
	Quiz 3: Electromagnetic Basics	Attempts: 68
	Quiz 4: Transformers	Attempts: 65

You are logged in as I.sharif 102518 (Logout)





See all course grades

Attempts: 83

Showing graded and ungraded attempts for each user. The one attempt for each user that is graded is highlighted. The grading method for this quiz is **Highest grade.**

First name : **All** ABCDEFGHIJKLMNOPQRSTUVWXYZ
Surname : **All** ABCDEFGHIJKLMNOPQRSTUVWXYZ

Page: 1 2 3 (Next)

	First name / Surname	Started on	Completed	Time taken	Grade/12	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
<input type="checkbox"/>	 هديل محمد علي حميدات 0146495	7 July 2018, 07:25 PM	7 July 2018, 07:54 PM	28 mins 39 secs	7	1/1	1/1	1/1	0/1	0/1	0/1	0/1	1/1	1/1	1/1	0/1	1/1
<input type="checkbox"/>		9 July 2018, 09:48 PM	9 July 2018, 09:57 PM	9 mins 25 secs	12	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
<input type="checkbox"/>	 ظاهر هشام ظاهر جرار 0147346	7 July 2018, 07:41 PM	7 July 2018, 07:43 PM	2 mins 23 secs	7	1/1	1/1	1/1	0/1	0/1	0/1	0/1	1/1	1/1	1/1	0/1	1/1
<input type="checkbox"/>		9 July 2018, 02:19 PM	9 July 2018, 02:26 PM	7 mins 7 secs	12	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
<input type="checkbox"/>	 سعيد مازن سعيد عشا 0147566	7 July 2018, 07:12 PM	7 July 2018, 07:52 PM	39 mins 59 secs	9	1/1	1/1	1/1	1/1	0/1	0/1	0/1	1/1	1/1	1/1	1/1	1/1
<input type="checkbox"/>		8 July 2018, 03:20 PM	8 July 2018, 03:48 PM	28 mins 48 secs	12	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
<input type="checkbox"/>	 محمود محمد نواف مريسي 0147604	7 July 2018, 07:04 PM	7 July 2018, 07:40 PM	35 mins 47 secs	11	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	0/1	1/1

10. ANALYZING RESULTS



10. ITEM ANALYSIS

Info Results Preview Edit

Overview Regrade Manual grading **Item analysis**

[See all course grades](#)

Attempts: 49

Only one attempt per user allowed on this quiz.

First name : **All** ABCDEFGHIJKLMNOPQRSTUVWXYZ
Surname : **All** ABCDEFGHIJKLMNOPQRSTUVWXYZ

Page: 1 2 (Next)

First name / Surname	Started on	Completed	Time taken	Grade/20	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
----------------------	------------	-----------	------------	----------	----	----	----	----	----	----	----	----	----	-----	-----	-----



Q#	Question text	Answer's text	partial credit	R. Counts	R.%	% Correct Facility	SD	Disc. Index	Disc. Coeff.
(14590)	01 The two types of fluid systems: fluid power and fluid transport : What are the two types of fluid systems?	Fluid power.	(0.00)	0/49	(0%)	100%	0.000	0.91	-999.00
		Fluid transport.	(0.00)	0/49	(0%)				
		Fluid power and fluid transport.	(1.00)	49/49	(100%)				
		Fluid chemical energy.	(0.00)	0/49	(0%)				
(14596)	05 setup for measuring viscosity : The figure shows a setup used to measure the viscosity of a fluid. Answer the following question. If the fluid is replaced with one that has a HIGHER dynamic viscosity, then the required force to achieve the same velocity gradient will become:	Higher.	(1.00)	40/49	(82%)	82%	0.391	0.85	0.34
		No change.	(0.00)	0/49	(0%)				
		Smaller.	(0.00)	8/49	(16%)				
		Depends on the type of fluid (could be higher, the same or smaller).	(0.00)	1/49	(2%)				
	06 power	The force multiplied by the velocity of							

10. ITEM ANALYSIS



11. REGRADING

1. If you later realise that one of your questions is incorrect, you can ask for a regrade.

Info Results Preview Edit

Overview **Regrade** Manual grading Item analysis

See all course grades

Attempts: 49

Only one attempt per user allowed on this quiz.

First name : All ABCDEFGHIJKLMNOPQRSTUVWXYZ
Surname : All ABCDEFGHIJKLMNOPQRSTUVWXYZ

Page: 1 2 (Next)

First name / Surname	Started on	Completed	Time taken	Grade/20	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
	9 June	9 June	42													



12. PROVIDING FEEDBACK TO THE STUDENTS

1. After the quiz, or while it is still open you can provide feedback to students.
2. You can give them the correct answer, what they actually answered (responses) and the score.

Review options 📄

Immediately after the attempt	Later, while the quiz is still open	After the quiz is closed
<input checked="" type="checkbox"/> Responses	<input checked="" type="checkbox"/> Responses	<input checked="" type="checkbox"/> Responses
<input checked="" type="checkbox"/> Answers	<input checked="" type="checkbox"/> Answers	<input checked="" type="checkbox"/> Answers
<input type="checkbox"/> Feedback	<input type="checkbox"/> Feedback	<input type="checkbox"/> Feedback
<input type="checkbox"/> General feedback	<input type="checkbox"/> General feedback	<input type="checkbox"/> General feedback
<input checked="" type="checkbox"/> Scores	<input checked="" type="checkbox"/> Scores	<input checked="" type="checkbox"/> Scores
<input type="checkbox"/> Overall feedback	<input type="checkbox"/> Overall feedback	<input type="checkbox"/> Overall feedback



13. SAVING AND BACKING UP

1. It is a good idea to regularly backup your full course.
2. You can also save the full set of questions (usually in moodle format, .xml).



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THANK YOU FOR YOUR
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