

Course QA-System

نظام ضبط جودة المساقات

Student Outcomes – Program Level

Have you selected Your Accreditation System - > set of SO

At least, you should define the program SOs.

Considering the Program Core courses only!

Is it possible to give a weight for each CLO/SO? Do you do it?

Is it possible to distribute each weight of each SO on the core courses?

Do you do it?

	SO1	SO2	SO _n
Core course 1				
Core course 2				

Course Assessment

Over all exams/projects/ hws/ etc, do you make sure that each course Learning Outcome **is being properly assessed** by at least one assessment module.

	EXM1/P1	EXAM1/P2	PROJECT
CLO1	1	1		
CLO2		3		
CLO3				1

Feedback

- Do you provide feedback for students per course
- Do you provide progressive feedback per all courses taken so far
- Do you get reports on the average achievement per CLO (is there a template)
- Do you get reports on the average achievement per SO (program level)
 - After completion of a program

Improvement – course level

- Do you analyze the course reports for improvement?
- Do you document these improvements/recommendations for future offering of the course?
- Do teachers consider these recommendations and act on them?

Improvement – program level

- Do you analyze the program SOs for improvement
- Do you document these improvements/recommendations for upcoming batches.
- Do department officials consider these recommendations in their plans.

Auditing

- Internal/External Auditing –
 - random sample checking for a course material

System Importance

▶ Course plan Level

- Define the **C**ourse **L**earning **O**utcomes (**CLOs**).
 - Define the weight of marks for each **CLO**.
 - Choose the proper assessment method to achieve those **CLOs**.
 - Map each **CLO** with the proper **S**tudent **O**utcomes of the whole program.
- ❖ At the end **each course** will contribute in achieving the **Objectives** and **Outcomes** of the whole Program.

System Importance

▶ Assessment methods plan Level

- ▶ **Choose** the proper assessment method (Exams, Projects, etc.) and exam questions that cover the CLOs correctly
 - ▶ **Map** each part of the assessment method or exam questions with the proper CLO or CLOs and distribute the marks on them... *See Note 1.*
 - ▶ **Show** the **mapping** between the questions and CLOs on the Exams or assessment method **sheets**; this gives the students better understanding of the CLOs and Course Plan.
-
- ***Note1:** on **Exams** tab- Choose **Exam Actions** then -**Exam Parts** – then **add the parts** and **map** them with the proper CLOs with weight for each.*

System Importance

▶ Documentation Level

The system gives the ability to upload all assessment methods or exams files.

- ▶ The **Exam sheet** file.
- ▶ The **Exam Solution** or grading criteria file.
- ▶ The **Max of students work** sample file.
- ▶ The **Min of students work** sample file.
- ▶ The **Average of students work** sample file.

System Importance

► Performance Level

After the **Instructors** add all exams and students **marks** of all sections to the system, the system will generate the following:

- The performance of each student per CLO.
- The performance of each student per SO.
- The summary of performance (Average) for all students per CLO.
- The summary of performance (Average) for all students per SO.

System Importance

▶ **Course Assessment Level**

Based on the performance generated by the system; the coordinator has to give his/her feedback on the results to improve the student's performance in next semester:

- ▶ Student Attainment per Course Learning Outcome
 1. The Coordinator adds the indirect assessment of CLOs.
 2. The Course Coordinator adds his/her recommendations to improve the student attainments in the CLOs that does not meet the expectations (DNME).

System Importance

▶ **Course Assessment Level cont.**

The course coordinator adds the following fields:

- ▶ Reflections on Results
 1. Reflections on Previous Semester Recommendations.
 2. Course Strength.
 3. Course Weakness.
- ▶ Planned Improvements for Next Semester

System Design

- ▶ The design **layout** and **field responsibilities** of the course QA system are shown in the following slides.

Home Page

**Jordan University of Science and
Technology**



Course Portfolio

[Syllabus](#) ▾

[Outcomes](#) ▾

[Exams](#)

[Marks](#) ▾

[Performance](#) ▾

[Monitoring](#) ▾

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Responsibilities

- ▶ **Chairman Responsibilities:**
 - Syllabus
 - Outcomes
- ▶ **Course Coordinator Responsibilities:**
 - Exams
 - Performance/ Course Assessment
- ▶ **Course Instructor Responsibilities:**
 - Marks for his/her sections

Chairman Responsibilities

▶ 1- Syllabus:

- Course Description
- References
- Course Topics
- Course TAs

▶ 2- Outcomes

- Students Outcomes/ program level
- Course Learning Outcomes

Syllabus

Jordan University of Science and Technology



Course Portfolio

Syllabus ▾

Outcomes ▾

Exams

Marks ▾

Performance ▾

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- Course Description
- References
- Course Topics
- Course TAs
- Print Syllabus

Outcomes

Jordan University of Science and Technology



Course Portfolio

Syllabus ▾

Outcomes ▾

Exams

Marks ▾

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Learning Outcomes

Course Coordinator Responsibilities

1- Exams:

- **Exams Titles** (Ex: First Exam, Quize1, Quiz2, Assignment1, Final Exam, ...) and weight for each.
- **Exams Actions:**
 - ❑ Exams parts mapped with CLOs & weight for each.
 - ❑ Exams attachments which include:
 - Exam questions
 - Solution/ grading criteria and sheet
 - MAX sample of student work
 - MIN sample of student work
 - Average sample of student work

Exams Example

Syllabus ▾ Outcomes ▾ Exams Marks ▾ Performance ▾ Monitoring ▾

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Exams

Semester

Second Semester 2016-2017 ▾

Course

(CPE351) Microprocessor Systems (1713512) ▾

i Only course coordinators can manage the exams

Exams					
#	Exam Name	Weight	Part Weights	Attachment Count	Actions
1	1st Exam	20	20	5	...
2	2nd Exam	20	20	5	...
3	Final Exam	40	40	5	...
4	Assignments	10	10	5	...
5	Quizzes	10	10	5	...
	Total	100	100		

Exams Actions

Syllabus ▾ Outcomes ▾ Exams Marks ▾ Performance ▾ Monitoring ▾

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Exams

Semester

Course

i Only course coordinators can manage the exams

Exams

#	Exam Name	Weight	Part Weights	Attachment Count	Actions
1	1st Exam	20	20	5	...
2	2nd Exam	20	20	5	View Exam Parts View Attachments
3	Final Exam	40	40	5	...
4	Assignments	10	10	5	...
5	Quizzes	10	10	5	...

Instructor Responsibilities

▶ Marks

The Instructor can import the marks from excel sheet.

Marks Example

Each mark is saved separately once you leave the mark entry field

This icon (✓) will appear next to each successfully saved mark

This icon (⚠️) will appear next to each mark that was not saved successfully. Click on the icon to see the reason.

Save to Excel

#	Student No	Name	exam1 - Basic Syntax and Semantics (10)	exam1 - Truth-Table Code Design (2.5)	exam1 - D_Latch Code Design (2.5)	exam1 - Structure Code design (2.5)	exam1 - Simulation and Tools (2.5)	exam2 - Synthesis Code (10)	exam2 - Design Code (10)	Final - Q1 (6)	Final - Q2 (12)	Final - Q3 (15)	Final - Q4 (7)	Project - ASM(Control & Datapath) (8)	HWs - HW1&HW2 (3)	HWs - HW3&HW4 (3)	HWs - HW5&HW6 (3)	HWs - HW7 (3)
1	20092171074	Ra'Ed Taiseer Mefleh Shatnawi	6	1	1	1	0	5	4	3	4.5	2	2	0	0	0	0	0
2	20110171092	Nesreen Ahmad Amin Al Sadi	6.5	2.5	1	0.5	2.5	8.5	7.5	4	8	7	4	2.5	1	0.75	0.5	0.75
3	20112171062	Dalia Mahmoud Husien Alsayaaheen	6.5	1	1	1	1.5	8	6.5	4	9	8	3.5	3	1	2	0.5	0.5
4	20120171010	Omar Abed Allah Mohammad Hadi Al Shboul	5	2.5	1.5	1.5	2.5	8.5	3.5	4.5	9	6.5	3	5	2.5	1	1.5	2.5
5	20120171021	Boshra Bassam	10	2.5	2	1	2.5	8	8.5	5	7	11.5	6.5	6.5	2.5	3	3	1

Coordinator Responsibilities

2- Performance:

- **Performance:** generated by the system when all marks are added to the system for all sections and exams.
- **Course Assessment:** generated by the system but **some fields** has to be filled by the Course Coordinator which are:
 - ❑ **Student Attainment per Course Learning Outcomes, the following fields:**
 - ❑ Indirect Assessment (%)
 - ❑ Recommendations for Improvement / Changes *for CLOs that has **DNME** rating in the direct assessment*
 - ❑ Reflections on Results.
 - ❑ Planned improvements for next Semester.

Course Assessment / Student Attainment per Course Learning Outcome

Syllabus - Outcomes - Exams - Marks - Performance - Monitoring -

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Performance
Course Assessment

Course Assessment

Semester

Course

Confirmation Status: Unconfirmed

i Only course coordinators can manage the course's Assessment

Student Attainment Per Course Learning Outcome

Student Attainment Per Student Learning Outcome

Reflections on Results

Planned Improvements for Next Semester

#	Short Code	Description	Direct Assessment (%)	Direct Assessment Rating	Indirect Assessment (%)	Indirect Assessment Rating	Recommendations for Improvement / Changes
1	CLO1	Students increase their mathematical proficiency in numbering system and coding methods to represent the arithmetic operation in Verilog Language	74 %	ME	81	ME	
2	CLO2	Students are required to design most of the combinatorial and sequential computer library components and analyze the designs to certain test bench requirements.	63 %	PE	65	PE	

Course Assessment / Reflections on Results

Course Assessment

Semester

Course

Confirmation Status: Unconfirmed

 Only course coordinators can manage the course's Assessment



Student Attainment Per Course
Learning Outcome

Student Attainment Per Student
Learning Outcome

Reflections on Results

Planned Improvements for Next
Semester

Reflections on Previous Semester Recommendations

We change the type of project from ALU arithmetic to more realife arithmetic design problem. More students get involved with project assignment, and the students were able to model the mathematical problem from the physical problem. Then, majority was able to build the design close to the goals.

Course Strengths

The course strength might be summarized on the following pullets:
1- Challenge students with weekly homework to write Verilog-code for given design problem
2- Integrate students learning on previous hardware courses and accomplish complete hardware design problems

Course Assessment / Planned Improvements for Next Semester

Course Assessment

Semester

Second Semester 2016-2017

Course

(CPE433) Advanced Digital Systems Design (1714330)

Confirmation Status: Unconfirmed

Only course coordinators can manage the course's Assessment



Student Attainment Per Course
Learning Outcome

Student Attainment Per Student
Learning Outcome

Reflections on Results

Planned Improvements for Next
Semester

#	Planned Improvements for next semester
<input type="checkbox"/>	Update Course SLOs via the Curriculum Committee
<input type="checkbox"/>	Revise the course sequence, prerequisites, or content via the Curriculum Committee
<input type="checkbox"/>	Revise course content and assessment methods
<input checked="" type="checkbox"/>	Increase use of class discussions and in-class group work
<input checked="" type="checkbox"/>	Develop/increase outside-class opportunities for student dialogue, mentoring, and peer review
<input type="checkbox"/>	Improve grading criteria and guidance on assignments (such as stated goals and rubrics) and provide early continuous feedback
<input checked="" type="checkbox"/>	Create new or revise existing activities/assignments
<input type="checkbox"/>	Update or revise lecture content
<input type="checkbox"/>	Create or expand existing repository (website or hands on) of resources for students (rubrics, activities, news links, book or journal references, online tutorials)
<input type="checkbox"/>	Use new equipment or supplies to modify class activities
<input checked="" type="checkbox"/>	Engage in professional development about best practices for this subject
<input type="checkbox"/>	Improve communication

The End 😊