



جامعة المجمعة  
Majmaah University

# Course Report

**College:** College of Engineering  
**Programme:** Power And Machines Track  
**Course :** Senior Design-1 (EE 498)

Muharram 1437 H



This form compatible with NCAAA Edition

## Course Report

Institution : <b>Majmaah University</b>	Date of CR <b>28/05/2017</b>
College/ Department <b>College of Engineering / Electrical Engineering</b>	

### A Course Identification and General Information

1. Course title: <b>Senior Design-I</b>		Code <b>EE 498</b>		Section <b>1562</b>		
2. Name of course instructor <b>Dr. Ahmed Bilal Awan</b>		Location : <b>College of Engineering</b>				
3. Year and semester to which this report applies: <b>Year 4 / Semester 7 (level 9)</b>						
4. Number of students starting the course?		<b>9</b>	Students completing the course?		<b>9</b>	
5. Course components:						
	Lecture	Tutorial	Laboratory/ Studio	Practical	Other	<b>Total</b>
<b>Contact Hours</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>30</b>
<b>Credit</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>

### B- Course Delivery :

#### 1. Coverage of Planned Program

Topics Covered	Planned Contact Hours	Actual Contact Hours	Reason for Variations (*)
Project statement	2	2	.....
Bibliography	4	4	.....
In-depth survey	4	4	.....
Conceptual and structural design, analysis	8	8	.....
Statistical and cost analyses	4	2	The semester was curtail to 13 weeks
Societal and environmental impact	2	1	The semester was curtail to 13 weeks
Report writing	6	4	The semester was curtail to 13 weeks
.....	.....	.....	.....
.....	.....	.....	.....

(\*) if there is a difference of more than 25% of the hours planned



## 2. Consequences of Non-Coverage of Topics

Topics not Fully Covered (if any)	Effectuated Learning Outcomes	Possible Compensating Action
.....	.....	.....
.....	.....	.....
.....	.....	.....
.....	.....	.....

## 3. Course learning outcome assessment.

List course learning outcomes		List methods of assessment for each LO	Summary analysis of assessment results for each LO
<b>1.0</b>	<b>Knowledge</b>		
1.1	Demonstrate cost effective environmental friendly engineering solution with deep impact on social benefits	.....	100%
1.2	Examine contemporary issues through in depth survey of the project related topics.	.....	100%
1,3	.....	.....	.....
1,4	.....	.....	.....
1,5	.....	.....	.....
1,6	.....	.....	.....
<b>2.0</b>	<b>Cognitive Skills</b>		
2.1	Describe problem statement for Senior Design project.	Standardized exams, quizzes and assignments.	78%
2.2	Formulate engineering problems thorough bibliography of the topic.	Standardized exams, quizzes and assignments.	81.5%
2,3	.....	.....	.....
2,4	.....	.....	.....
2,5	.....	.....	.....
2,6	.....	.....	.....
<b>3.0</b>	<b>Interpersonal Skills &amp; Responsibility</b>		
3.1	Work in multidisciplinary teams by working on interdisciplinary projects	.....	85%
3.2	Engage in life-long learning through in depth survey of the project related topics.	.....	92.5%
3,3	.....	.....	.....
3,4	.....	.....	.....
3,5	.....	.....	.....
3,6	.....	.....	.....
<b>4.0</b>	<b>Communication, Information Technology, Numerical</b>		



List course learning outcomes		List methods of assessment for each LO	Summary analysis of assessment results for each LO
4.1	Use the techniques, skills, and modern engineering tools in order to make conceptual and structural design	Standardized exams, quizzes and assignments.	81%
4.2	Demonstrate effective written and verbal communication skill by righting report and defending project work in final presentation	Standardized exams, quizzes and assignments.	92%
٤,٣	.....	.....	.....
٤,٤	.....	.....	.....
٤,٥	.....	.....	.....
٤,٦	.....	.....	.....
<b>5.0</b>	<b>Psychomotor</b>		
5.1	.....	.....	.....
5.2	.....	.....	.....
٥,٣	.....	.....	.....
٥,٤	.....	.....	.....
٥,٥	.....	.....	.....
٥,٦	.....	.....	.....

**Summarize any actions you recommend for improving teaching strategies as a result of evaluations in table 3 above.**

Student's outcomes are above the benchmark of 75%. No further actions are recommended

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#### 4. Effectiveness of Planned Teaching Strategies for Intended Learning Outcomes set out in the Course Specification

List Teaching Methods set out in Course Specification	Were They Effective?		Difficulties Experienced (if any) in Using the Strategy and Suggested Action to Deal with Those Difficulties.
	No	Yes	
Class room lectures		X	.....
Semester project		X	.....
.....			.....
.....			.....
.....			.....



## C. Results

### 1. Distribution of Grades

Letter Grade	Number of Students	Student Percentage	Analysis of Distribution of Grades
A+	1	11.1%	.....
A	3	33.4 %	Most of the SD students did good work and completed the design phase of the project which lead them to good grades.
B+	2	22.2 %	.....
B	1	11.1 %	.....
C+	1	11.1 %	.....
C	1	11.1 %	Only few students did not participated well in their SD work and in the final defense of phase one.
D+	0	0 %	.....
D	0	0%	.....
F	0	0 %	.....
Denied Entry	.....	0 %	.....
In Progress	.....	0%	.....
Incomplete	.....	0 %	.....
Pass	9	100 %	.....
Fail	0	0 %	.....
Withdrawn	0	0 %	.....

### 2. Analyze special factors (if any) affecting the results

- Students are weak in mathematics. The College and Department should check the level of students in mathematics before admission.
- Some students have English comprehension and communication problems
- Students report writing skills need to be improved at earlier stages of the program



### 3. Variations from planned student assessment processes (if any) .

a. Variations (if any) from planned assessment schedule (see Course Specifications)

Variation	Reason
.....	.....
.....	.....
.....	.....

b. Variations (if any) from planned assessment processes in Domains of Learning

Variation	Reason
.....	.....
.....	.....
.....	.....

### 4. Student Grade Achievement Verification :

Method(s) of Verification	Conclusion
Cross-check of grade validity	Validated
.....	.....
.....	.....

### D. Resources and Facilities

Difficulties in access to resources or facilities (if any)	Consequences of any difficulties experienced for student learning in the course
.....	.....
.....	.....
.....	.....

### E. Administrative Issues

Organizational or administrative difficulties encountered (if any)	Consequences of any difficulties experienced for student learning in the course
Some students register too many credit hours for one semester	Students with high number of credit hours cannot concentrate and give enough time to study individual courses
.....	.....
.....	.....

### F Course Evaluation



### 1 Student evaluation of the course (Attach summary of survey results)

<p>a. List the most important recommendations for improvement and strengths</p> <ul style="list-style-type: none"> <li>• The result of student survey was above the benchmark. No further actions are recommended.</li> <li>• .....</li> <li>• .....</li> <li>• .....</li> </ul>
<p>b. Response of instructor or course team to this evaluation</p> <ul style="list-style-type: none"> <li>• .....</li> <li>• .....</li> <li>• .....</li> <li>• .....</li> </ul>

### 2. Other Evaluation :

<p>a. List the most important recommendations for improvement and strengths</p> <ul style="list-style-type: none"> <li>• .....</li> <li>• .....</li> <li>• .....</li> <li>• .....</li> </ul>
<p>b. Response of instructor or course team to this evaluation :</p> <ul style="list-style-type: none"> <li>• .....</li> <li>• .....</li> <li>• .....</li> <li>• .....</li> </ul>

## G Planning for Improvement

### 1. Progress on actions proposed for improving the course in previous course reports (if any).

Actions recommended from the most recent course report(s)	Actions Taken	Action Results	Action Analysis
a) Improving SD procedures	Introduction of some new documents to clearly mention the Steps in SD progress during semester	All SD supervisors has filled the new forms with SD tasks and their completion status at each step.	This has helped to make SD project progress more transparent.





a) .....	.....	.....	.....
b) .....	.....	.....	.....
c) .....	.....	.....	.....

**2. List what other actions have been taken to improve the course**

<ul style="list-style-type: none"> <li>• .....</li> <li>• .....</li> <li>• .....</li> <li>• .....</li> </ul>
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**3. Action Plan for Next Semester/Year**

Actions Recommended for Further Improvement	Intended Action Points (should be measurable)	Start Date	Completion Date	Person Responsible
a) Improving CLOs of SD course in order to have a better measurement of students outcomes	Re-writing the CLOs	02/02/2017	05/05/2017	Senior Design Committee and EE Department
b) .....	.....	.../.../1437 H	.../.../1437 H	.....
c) .....	.....	.../.../1437 H	.../.../1437 H	.....
d) .....	.....	.../.../1437 H	.../.../1437 H	.....
e) .....	.....	.../.../1437 H	.../.../1437 H	.....

**Course Instructor:**

Name: <b>Dr. Ahmed Bilal Awan</b> Signature: ..... Date Report Completed: <b>28/05/2017</b>
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**Program Coordinator:**

Name: ..... Signature: ..... Date Received : <b>...../...../1438 H</b>
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## **Important Notes:**

- A separate Course Report (CR) should be submitted for every course and for each ( section " Male & Female" or Academic Programme or campus location where the course is taught ) even if the course is taught by the same person
- Each CR is to be completed by the course instructor (Separate reports attached ) and given to the program coordinator At the end of each course
- Course Reports are to discuss by the academic ( Programme ) Department Council

