



جامعة المجمعة  
Majmaah University

# Course Report

**College:** College of Engineering  
**Programme:** Power And Machines Track  
**Course :** Senior Design-2 (EE 499)

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-2</b>		Code <b>EE 499</b>		Section		
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>19</b>	Students completing the course?		<b>19</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 (*)
Evaluation and revision of design in EE498	6	6	.....
Prototype construction	18	14	This semester was curtail to 13 weeks
Report writing	6	5	This 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	Assignments, group discussions	96%
1.2	Examine contemporary issues through in depth survey of the project related topics.	Assignment, presentations	100%
1.3	.....	.....	.....
1.4	.....	.....	.....
1.5	.....	.....	.....
1.6	.....	.....	.....
<b>2.0</b>	<b>Cognitive Skills</b>		
2.1	Design the solution for the specific problem initiated in EE498.	Assignments	88%
2.2	Analyze an engineering problem and its global impact by identifying different factors such as technology, economics and society, and their contributions to the problem and solution	Assignments	89%
2.3	Analyze and Design an electronic or software prototype to meet given specifications	Prototype design	79%
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	Group activities	98%
3.2	Engage in life-long learning through research and literature review of the project related topics.	Research aptitude, presentations	98%
3.3	Work in teams to develop solutions and action plans to address local, global and/or international engineering problems.	Group assignments	98%
3.4	.....	.....	.....



List course learning outcomes		List methods of assessment for each LO	Summary analysis of assessment results for each LO
٣,٥	.....	.....	.....
٣,٦	.....	.....	.....
<b>4.0</b>	<b>Communication, Information Technology, Numerical</b>		
<b>4.1</b>	Use the techniques, skills, and modern engineering tools in order to make conceptual and structural design.	Presentations, Prototype design.	79%
<b>4.2</b>	Demonstrate effective communication of technical ideas and concepts through report writing and final presentation	Presentations	100%
٤,٣	.....	.....	.....
٤,٤	.....	.....	.....
٤,٥	.....	.....	.....
٤,٦	.....	.....	.....
<b>5.0</b>	<b>Psychomotor</b>		
<b>5.1</b>	.....	.....	.....
<b>5.2</b>	.....	.....	.....
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.

Results of most of the Students outcomes are above the benchmark of 75%. No further action is recommended.....

.....

.....

.....

.....

#### 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	5.3%	.....
A	3	15.8 %	.....
B+	9	47.3 %	Overall the students perform well but they made some mistakes in the reports that lead to reduction of some marks
B	5	26.3 %	Most of the students fall in B and B+ band. Overall the students perform well but they made some mistakes in the reports that lead to reduction of some marks
C+	1	5.3 %	.....
C	0	0 %	.....
D+	0	0 %	.....
D	0	0%	.....
F	0	0 %	.....
Denied Entry	.....	0 %	.....
In Progress	.....	0 %	.....
Incomplete	.....	0 %	.....
Pass	19	100 %	.....
Fail	0	0 %	.....
Withdrawn	0	0 %	.....

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



- Students are weak in mathematics.
- 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>• Result of the survey was above the benchmark</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> </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	All SD supervisors has filled the SD	This has helped to make SD project



	documents to clearly mention the Steps in SD progress during semester	tasks and their completion status at each step.	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: Dr. Ahmed Bilal Awan
Signature: ..... Date Report Completed: 28/05/2017

**Program Coordinator:**

Name: .....
Signature: ..... Date Received : ...../...../1438 H





## **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

