



جامعة المجمعة  
Majmaah University

# Course Report

**College:** Engineering  
**Program:** Electrical  
**Course :** Communication Principles Lab  
EE 323

Muharram 1437 H



This form compatible with NCAAA Edition

## Course Report

Institution :	Majmaah University	Date of CR	29/05/2017
College/ Department	Engineering / Electrical Engineering		

### A Course Identification and General Information

1. Course title: <b>Communication Principles Lab</b>	Code <b>EE 323</b>	Section <b>435</b>				
2. Name of course instructor <b>Dr. Fathi KALLEL</b>	Location : <b>Complex Building</b>					
3. Year and semester to which this report applies: <b>2016/2017-Second Semester</b>						
4. Number of students starting the course?	<b>09</b>	Students completing the course? <span style="border: 1px solid black; text-align: center;"><b>09</b></span>				
5. Course components:						
	Lecture	Tutorial	Laboratory/ Studio	Practical	Other	<b>Total</b>
<b>Contact Hours</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>30</b>
<b>Credit</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>

### B- Course Delivery:

#### 1. Coverage of Planned Program

Topics Covered	Planned Contact Hours	Actual Contact Hours	Reason for Variations (*)
Introduction to Lab (familiarization)	2	2	None
Signals in the time and frequency domain	4	4	None
Amplitude Modulation AM, DSB ,SSB	6	6	None
Amplitude Modulation with suppressed carrier, SSB,DSB generation using an IQ modulator	4	4	None
Frequency Modulation FM, Frequency Modulation generation using an IQ modulator	6	6	None
Phase Modulation	4	0	Early termination of the semester
Implementation, testing mini project of students team work	4	0	Early termination of the semester

(\*) 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)	Effected Learning Outcomes	Possible Compensating Action
Phase Modulation topic is not covered due to the early termination of the semester.	No much effect	-----
.....	.....	.....

## 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>		
<b>1.1</b>	.....	.....	.....
<b>1.2</b>	.....	.....	.....
<b>2.0</b>	<b>Cognitive Skills</b>		
<b>2.1</b>	Design and conduct experiments related to Amplitude Modulation AM, DSB, SSB schemes, as well as to analyze and interpret data.	Final Exam	Average = 63%
<b>2.2</b>	Explain experiments related to Amplitude Modulation with suppressed carrier, SSB, DSB generation using an IQ modulator.		
<b>2.3</b>	Adapt experiments related to Frequency Modulation FM.		
<b>2.4</b>	Examine experiments related to Frequency Modulation generation using an IQ modulator.		
<b>2.5</b>	compose experiments related to Phase Modulation FM.		
<b>2.6</b>	.....		
<b>3.0</b>	<b>Interpersonal Skills &amp; Responsibility</b>		
<b>3.1</b>	.....	.....	.....
<b>4.0</b>	<b>Communication, Information Technology, Numerical</b>		
<b>4.1</b>	An ability to design, build, test and analyze circuits and systems relevant to communications systems.	Final Exam	Average = 85%
<b>4.2</b>	.....		
<b>5.0</b>	<b>Psychomotor</b>		
<b>5.1</b>	.....	.....	.....

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



The assigned teaching strategies are more than enough. Lab demonstration can be removed as a teaching strategy because the Lab related to this course is a separate course with other course specifications.

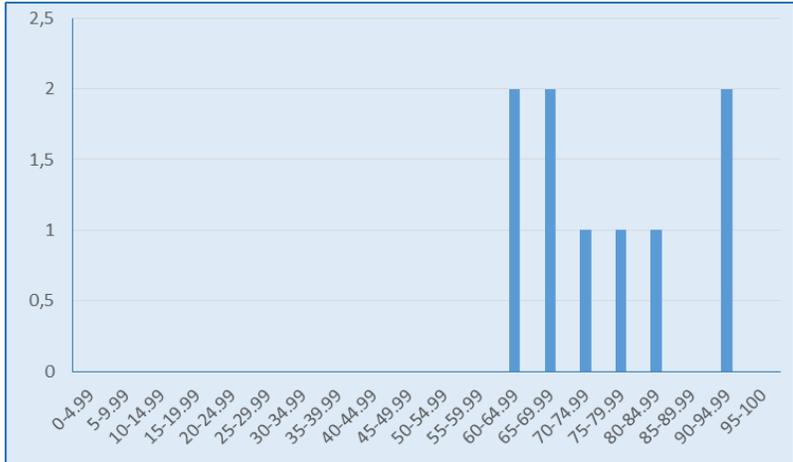
#### 4. Effectiveness of Planned Teaching Strategies for Intended Learning Outcomes set out in the Course Specification

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	
1- Every lab topic is explained in detail with help of circuit diagrams and examples. 2- Examples and applications of machines where necessary. 3- Some simple examples implementation before the actual lab work. 4- Assign individual experiment to every student to check his performance. 5- Teaching Methods are used on board, explain every experiment before implement, Individual and group work.		Yes	.....
1-Understand the Electric al Machines construction and principles. 2-Familiarize with operation and maintenance of these machines and their basic concepts. 3-Use lab equipment and their connections for analysis and measurements. 4-Constructed circuit before the implementation.		Yes	.....



## C. Results

### 1. Distribution of Grades

Letter Grade	Number of Students	Student Percentage	Analysis of Distribution of Grades
A+	0	0%	<p>The results are within the normal distribution. Results are calculated based on the number of students that are attended the final exam (09 students). The following figure illustrates the distribution of grades.</p> 
A	2	22 %	
B+	1	11%	
B	1	11%	
C+	0	0%	
C	1	11%	
D+	2	22%	
D	2	22%	
F	0	0%	
Denied Entry	0	0%	
In Progress	0	0%	
Incomplete	0	0%	
Pass	09	100%	
Fail	0	0%	
Withdrawn	0	0%	

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



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

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

Variation	Reason
Early termination of the semester	Early termination of the semester
None	.....
None	.....

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

Variation	Reason
None	.....
None	.....
None	.....

### 4. Student Grade Achievement Verification:

Method(s) of Verification	Conclusion
All final papers are reviewed by independent reviewer from the department who will double check the sum of the total marks.	Approved
Grades approved by Head of department and the dean of the EC.	Approved

### D. Resources and Facilities

Difficulties in access to resources or facilities (if any)	Consequences of any difficulties experienced for student learning in the course
The classroom was not equipped with operated smart board.	The learning process was not completely effective.
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### E. Administrative Issues

Organizational or administrative difficulties encountered (if any)	Consequences of any difficulties experienced for student learning in the course
None	.....
None	.....
None	.....



## F Course Evaluation

### 1 Student evaluation of the course (Attach summary of survey results) [Will be attached next semester]

<p>a. List the most important recommendations for improvement and strengths</p> <ul style="list-style-type: none"> <li>• Give students more real examples to see how the content relates to them and the world around them.</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:

**SLO evaluation program is used to evaluate the assigned SLO (a, e and k) for the course. The results of evaluation are included in the course file.**

<p>a. List the most important recommendations for improvement and strengths</p> <ul style="list-style-type: none"> <li>• Give students more experiment about designing communication system using different types of modulation/demodulation</li> </ul>
<p>b. Response of instructor or course team to this evaluation:</p> <ul style="list-style-type: none"> <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) Updating the experiments list	IN PROGRESS		.....
b) Preparing Lab experiment pre report.	IN PROGRESS		.....

### 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
c) Updating the experiments list	List of updated experiments	30/09/2017	31/01/2018	UPC
d) Preparing Lab experiment pre report.	Lab manual	30/09/2017	31/01/2018	Instructor
e)				

#### Course Instructor:

Name: Dr. Fathi Kallel

Signature: .....

Date Report Completed: 28/05/2016

#### Program Coordinator:

Name: .....

Signature: .....

Date Received : ...../...../2016



## **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

