



جامعة المجمعة  
Majmaah University

# Course Report

**College:** ENGINEERING  
**Programme** ELECTRICAL  
**Course :** EE212

Muharram 1437 H



This form compatible with NCAAA Edition

## Course Report

Institution :	MAJMAAH UNIVERSITY	Date of CR	22 / 01 / 2017 G.
College/ Department	ENGINEERING / ELECTRICAL		

### A Course Identification and General Information

1. Course title:	BASIC ELECTRONIC DEVICES AND CIRCUITS LAB	Code	EE 212	Section	97	
2. Name of course instructor	TALHA MOAIZ YAZDANI	Location :	YAHYAH CAMPUS			
3. Year and semester to which this report applies:	2016-2017 / FALL SEMESTER					
4. Number of students starting the course?	12	Students completing the course?	11			
5. Course components:						
	Lecture	Tutorial	Laboratory/ Studio	Practical	Other	Total
<b>Contact Hours</b>	.....	.....	32	.....	.....	32
<b>Credit</b>	.....	.....	1	.....	.....	1

### B- Course Delivery :

#### 1. Coverage of Planned Program

Topics Covered	Planned Contact Hours	Actual Contact Hours	Reason for Variations (*)
Introduction to LAB equipments	2	2	.....
I-V characteristics of diode	2	2	.....
Diode Circuits: Half wave rectifier + Full wave rectifier	4	4	.....
Diode Circuits: Zener diode characteristics and voltage stabilization	4	4	.....
Diode Circuits: Clipping and Clamping	2	2	.....
BJT: Input and output characteristics	2	2	.....
BJT-CE: AC-DC Analysis	2	2	.....
BJT-CC: AC-DC Analysis	2	2	.....
BJT-CB: AC-DC Analysis	2	2	.....
FET: characteristics of JFET and dc analysis	3	3	
FET: characteristics of MOSFET and dc	3	3	





analysis			
Revision	2	2	

( \* ) 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
NONE	NONE	NONE

## 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>1.3</b>	.....	.....	.....
<b>1.4</b>	.....	.....	.....
<b>2.0</b>	<b>Cognitive Skills</b>		
<b>2.1</b>	Conduct experiment in order to identify the I_V characteristics of diodes, BJT and FET	Standardized exams ( <i>First Exam</i> <i>Second Exam</i> <i>Final Exam</i> )	86%
<b>2.2</b>	Conduct experiment to analyze the operation of diode based circuits such as rectifier, voltage stabilization, clipping and clamping		
<b>2.3</b>	Conduct experiment to analyze the operation of different BJTs configuration		
<b>2.4</b>	Conduct experiment to analyze the operation of different FETs configuration		
<b>3.0</b>	<b>Interpersonal Skills &amp; Responsibility</b>		
<b>3.1</b>	.....	.....	.....
<b>3.2</b>	.....	.....	.....
<b>3.3</b>	.....	.....	.....
<b>3.4</b>	.....	.....	.....
<b>4.0</b>	<b>Communication, Information Technology, Numerical</b>		
<b>4.1</b>	Distinguish different tools to conduct experiments for diode and transistor	First Exam	61%
<b>4.2</b>		,	
<b>4.3</b>			



List course learning outcomes		List methods of assessment for each LO	Summary analysis of assessment results for each LO
4.4			
5.0	Psychomotor		
5.1	.....	.....	.....
5.2	.....	.....	.....
5.3	.....	.....	.....

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

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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	
Explain and Discuss each topic in detail at the beginning of the lab with the help of diagrams, mathematical expression		Yes	Students in general are not serious about Lab courses. General view is that its only 1-credit. So no need to work hard. During lecture I try to highlight the importance of hands on experience on state of the art equipment's in terms of field work and R&D.
Experimental Demonstration		Yes	
Group work		Yes	
Troubleshooting		Yes	
.....			.....

### C. Results

#### 1. Distribution of Grades

Letter Grade	Number of Students	Student Percentage	Analysis of Distribution of Grades
A+	0	0 %	.....
A	3	0 %	.....



<b>B+</b>	1	8.33 %	Have Potential to perform better
<b>B</b>	1	8.33 %	.....
<b>C+</b>	2	16.66 %	
<b>C</b>	3	24.99 %	Hardworking in nature.
<b>D+</b>	0	0.0 %	
<b>D</b>	1	8.33 %	Good in memorizing things but weak in practical demonstration of work
<b>F</b>	0	..... %	.....
Denied Entry	0	----- %	.....
In Progress	0	0 %	.....
Incomplete	0	0 %	.....
Pass	11	91.67 %	.....
Fail	0	0 %	.....
Withdrawn	1	8.33 %	.....

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

- .....
- Unaware of the importance of LAB work
- .....
- .....

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

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

Variation	Reason
NONE	NONE

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

Variation	Reason
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NONE	NONE
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#### 4. Student Grade Achievement Verification:

Method(s) of Verification	Conclusion
All final papers are reviewed by independent reviewer from the department who double check the sum of total mark	Level of fairness in correction is high

#### D. Resources and Facilities

Difficulties in access to resources or facilities (if any)	Consequences of any difficulties experienced for student learning in the course
It's not a standard lab facility	Lack of professional environment

#### E. Administrative Issues

Organizational or administrative difficulties encountered (if any)	Consequences of any difficulties experienced for student learning in the course
LAB Cleanliness	Students loose interest

#### F Course Evaluation

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

a. List the most important recommendations for improvement and strengths <ul style="list-style-type: none"> <li>No recommendation is made from student</li> </ul>
b. Response of instructor or course team to this evaluation <ul style="list-style-type: none"> <li>Students grade all subsection of survey above 3 which is satisfactory</li> </ul>

##### 2. Other Evaluation:

a. List the most important recommendations for improvement and strengths <ul style="list-style-type: none"> <li>Synchronization between course work and lab work</li> </ul>
b. Response of instructor or course team to this evaluation : <ul style="list-style-type: none"> <li>Agree</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) Remove SLO (a , c)	Done	Standard KPI	Substantial Hands-on experience
b) Updating the Course Description	Done	Theory and lab synchronization	Helpful to deliver quality education
c)	.....	.....	.....
d) .....	.....	.....	.....

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

- Develop a standard LAB Manual
- Student registration should not exceed 12 in each section

### 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) Safety measures	Highlight the problem to LDC. Follow the ISO standard	05/2/2017 G	05/6/2017 G	LDC
b) Repair Multi meter	Highlight the problem to LDC. Need fuses and battery	05/2/2017 G	05/3/2017 G	LDC
c) .....	.....	.../.../1437 H	.../.../1437 H	.....
d) .....	.....	.../.../1437 H	.../.../1437 H	.....
e) .....	.....	.../.../1437 H	.../.../1437 H	.....

#### Course Instructor:

Name: Talha moaiz yazdani

Signature: ..... Date Report Completed: 22/01/2017 G

#### Program Coordinator:

Name: .....



Signature: .....

Date Received : ...../...../1437 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

