



Annual Course Report

(Electronics 1, 2)

A- Basic Information

- 1 Title and Code Electronics EC 121 , EC122
2 Programme(s) on which this course is given EC
3 Academic year / Level of programme 1st Year/1st 2nd Semester(2012/2013)
4 Units/Weekly hours

Lecture Tutorial/Practical Total

5- Names of lecturers contributing to the delivery of the course

i- Prof.Dr.said El-Halfawy

Course coordinator: Prof.Dr.said El-Halfawy

External evaluators:

B- Statistical Information

No. of students attending the course: No. %

No. of students completing the course: No. %

Results:

Passed: No. % Failed: No. %

Grading of successful students:

Excellent: No. % Very Good: No. %

Good: No. % Pass: No. %

C- Professional Information

Content Topics	No of hours	lecture	Tutorial/ practical	Achieved ILOS
The Basic of (BJT) Transistor - Bipolar Junction Transistor Characteristics	10	6	4	A1, A4, B5, B6, C1, C2, C3,D1, D7
Load Lines and dc Bias Circuit - Small Signal Transistor Equivalent Circuit - Single Stage Transistor Amplifier	10	6	4	A1, A4, A8, B6, B7, C2, C3,D7
Metal Semiconductor Contact - Junction Field Effect Transistor JFET	5	3	2	A1, A3, B5, C2, C5,D9
Metals Semiconductor Field Effect Transistor (MESFET)	10	6	4	A1, A8, A15, B6, C1, C5,D7
Metal Oxide Semiconductor Field Effect Transistor (MOSFET) -Biasing Circuits Equivalent Circuits MOSFET	10	6	4	A3, A8, B6, B7, C5, C7
- Field Effect Transistor Amplifier	10	6	4	A3, A15, B5, B6, C2, C3,D1, D9
SUM	65	33	22	

Course Teaching

Content Topics	No of hours	Lecture	Tutorial/ practical	Achieved ILOS
Electron Ballistics	10	6	4	A1, B5, B7, C1,D1, D7
Semiconductor Physics	10	6	4	A3, B5, C5,D1, D9

P-N Junction Diodes - P-N Junction Analysis	15	9	6	A1, A3, B7, C1, C5,D7, D9
Diode Applications	15	9	6	A3, A15, B5, C5,D7
Zener and other two Elements Devices	10	6	4	A1, A15, B5, B7, C1,D9
sum	60	36	12	

Topics taught as a percentage of the content specified:

≥90 % **70-90 %** **<70%**

1. Teaching and Learning Methods:

Lectures:

Practical Training/ Laboratory:

Seminar/Workshop:

Class Activity:

Case Study:

Other Assignments/Homework:

Case Study

Other assignments/homework:
A real world project assigned.

2. Student Assessment:

Method of Assessment	Percentage of total
Written examination	70
Midterm exams	15
Oral Examination	0
Practical/laboratory work	0
Other Assignments/class work	15

Total 100 %

Members of Examination Committee:

Prof.
Prof.
Prof.

Role of external evaluator:

3. Facilities and Teaching Materials:

Totally adequate

Adequate to some extent

Inadequate

4. Administrative Constraints

- Students need extra hours.....
- Insufficient class rooms and halls.
- Insufficient assistant staff members.
- Insufficient Lab. Technicians.

5. Student Evaluation of the course: Response of Course Team

- Insufficient background in -

- Lack of -

- Algorithms..... -

6. Comments from external evaluator(s):

7. Course Enhancement:

- 1- The background part reduced in size
- 2- more examples and exercises given
- 3- Several references added

8. Action Plan for Academic Year 2012 – 2013

Progress on actions identified in the previous year's action plan:

Improvement Field	Weak points	Action required	Person Responsible	Completion Date
Assessment Methods	Good	-	- Faculty - Department	2013
Quality of Teaching and	This subject needs number of experimental	- Arrangement of several laboratories and electronic	- Faculty - Department	2014

Learning	equipments and several laboratories	components.		
Learning resources	Several references are required for this course	-		2014
Course content	Very Good			2012

Course Coordinator: Prof. Dr. said El-Halfawy

Authorized by Department Council in : 21/6/2009

Authorized by Faculty Council in: 5/7/2009

Head of Department:

Date: / /2012