



Annual Course Report

(Electromagnetic Wave Theory)

A- Basic Information

1. Title and Code Electromagnetic Wave Theory
EC322
2. Programme(s) on which this course is given EC
3. Academic year / Level of programme 3rd year / 1st semester
(2012/2013)
4. Units/Weekly hours

Lecture Tutorial/Practical Total

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

Dr. Mahmoud Gaber Elkholy

Course coordinator: Dr. Mahmoud Gaber Elkholy

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. %

Professional Information

1. Course Teaching

Content Topics	No of hours	Lecture	Tutorial	Achieved ILOS
Vector analysis, electrostatic fields	18	12	6	a1, a4,a23, b2, b3,c2d1
Transmission line at UHF- Plane wave propagation	24	16	8	a3, a4,a20, b5, b11, c6,c7,d7
Rectangular and circular Guides	18	12	6	a3, a4,a23,b2,c6 ,c7,d1, d9
Microstrip Lines	18	12	6	a1, a4, b5,b11,c2,c6 ,d7, d9
sum	78	52	26	

Topics taught as a percentage of the content specified:

≥90 %

70-90 %

<70%

2. 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.

3. 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:

4. Facilities and Teaching Materials:

Totally adequate

Adequate to some extent

Inadequate

5. Administrative Constraints

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

6. Student Evaluation of the course:

Response of Course Team

- | | |
|---|---|
| - Insufficient background in field theory | - |
| - Lack of measurements and waves | - |
| - Algorithms for vector analysis | - |

7. Comments from external evaluator(s):

8. Course Enhancement:

- 1- Modification of the distribution of topics to lectures.
- 2- Inclusion of up to date topics in the field of microwave

9. Action Plan for Academic Year 2012– 2013

Improvement Field	Weak points	Action required	Person Responsible	Completion Date
Assessment Methods	Good	-	- Faculty - Department	2012
Quality of Teaching and Learning	Good	-	- Faculty - Department	2013
Learning resources	- No lab is allowed for this topic.	Establishment of a lab for this subject		2012
Course content	1- The lectures are not properly distributed. 2- Vector analysis is a topic studied in mathematics and doesn't deserve 4 lectures 3- The time allowed for this subject is very large compared to the contents. 4- An important topic like the waveguide and its application is missing	1- Modification of the distribution of topics to lectures. 2- Inclusion of up to date topics in the field of microwave		2013

Course Coordinator: Dr. Mahmoud Gaber Elkholy

Authorized by Department Council in :

Authorized by Faculty Council in:

Head of Department:

Prof. Saber H. Zainud-Deen

Date: /