



Annual Course Report

(Antenna Engineering)

A- Basic Information

- 1 Title and Code **Antennas Engineering EC 424**
- 2 Programme(s) on which this course is given EC
- 3 Academic year / Level of programme 4th year / 1st semester (2012/2013)
- 4 Units/Weekly hours

Lecture Tutorial/Practical Total

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

i- Assisant Prof. Hamdy Abd-Khalik Sharshar

Course coordinator: Assisant Prof. Hamdy Abd-Khalik Sharshar

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

1. Course Teaching

Content Topics	No of hours	lecture	Tutorial/ practical	Achieved ILOS
Linear Antenna- Arrays of Elements	15	9	6	A1,a3,b1,b2,c1,c2,D3
Aperture Antenna	10	6	4	A4,a8,b6,b11,c1,c6,D1
Microstrip Antennas	10	6	4	a8,a20,b2,b6,c2,c7,d3,d7
Smart Antenna	10	6	4	a1,a3,a4,b11,b16,c7,c17,d9
Receiving Antennas	5	3	2	a1,a4,b6,c1,c2,d1,d7
Ground wave Propagation	10	6	4	a1,a8,a20,b6,b11,c1,c2,c17,d1,d7,d9
Space wave Propagation- Sky wave Propagation.	5	3	2	a8,b6,b11,c1,c2,d9
sum	65	39	26	

Topics taught as a percentage of the content specified:

$\geq 90\%$

 $70-90\%$

 $<70\%$

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	<input checked="" type="checkbox"/>
Adequate to some extent	<input type="checkbox"/>
Inadequate	<input type="checkbox"/>

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 advanced mathematics -
-

- Lack of Software Programs -
- Algorithms.....

7. Comments from external evaluator(s):

8. Course Enhancement:

Redistribution of the course time.

Inclusion of up to date topics in the field of antennas.

Inclusion of several references

9. Action Plan for Academic Year 2012– 2013

Improvement Field	Weak points	Action required	Person Responsible	Completion Date
Assessment Methods	Theoretical assessment	There should be a lab exam in this topic	- Faculty - Department	2014
Quality of Teaching and Learning	The topic is theoretical	- An equipped lab is required	- Faculty - Department	2013
Learning resources	Not enough	Inclusion of several references		2012
Course content	1-Very long time is devoted for wire antennas leaving more important topics wit in appropriate coverage 2- Primitive types of antenna arrays only are included in the course 3- Advanced topics of antenna arrays and beamforming are required. 4- Time devoted to aperture antennas is small. 4- New directions in antennas like dielectric resonator antennas must be studied.	1- Redistribution of the course time. 2- Inclusion of up to date topics in the field of antennas.		2011

Course Coordinator: Assisant Prof. Hamdy Abd-Khalik Sharshar

Authorized by Department Council in : / /

Authorized by Faculty Council in: / /

Head of Department:

Prof.

Date: / /