



# Annual Course Report

(Communication theory)

## A- Basic Information

- 1 Title and Code **Communication Theory - EC 323**
- 2 Programme(s) on which this course is given EC
- 3 Academic year / Level of programme 3<sup>rd</sup> year / 1<sup>st</sup> semester (2011/2012)
- 4 Units/Weekly hours

Lecture  Tutorial/Practical  Total

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

i- Prof. Moawad I. Desouky

**Course coordinator:** Prof. Moawad I. Desouky

**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
<b>Introductory topics</b>	10	6	4	A1,b1,c1,d1
The Amplitude modulations- demodulation	15	9	6	A1,b1,b5,c1, c12,d1,d3
The Analog modulation	10	6	4	A8,a14,b5,b14,c12,c13,d1, d3,d5
Signal transmission through linear Comm. Channels	15	9	6	A8,a14,b14,b15,c12,c13, d3,d5
The Performance Evaluation of analogue Comm. Systems in the Presence of Noise and interferences.	15	9	6	A14,a17,b14, b15,c13,c17, d5,d9
SUM	65	39	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 Fourier transforms -
- Lack of laboratory devices -
- Algorithms for signal coding and modulation -

**7. Comments from external evaluator(s):**

**8. Course Enhancement:**

- 1- Removal of Fourier analysis
- 2- Reduction of the AM and FM topics to avoid overlapping with other courses.
- 3- Extension of the spectral estimation part
- 4- Devoting a section for communication circuits

**9. Action Plan for Academic Year 2012 – 2013**

Improvement Field	Weak points	Action required	Person Responsible	Completion Date
Assessment Methods				
Quality of Teaching and Learning				
Learning resources	No enough	Several references should be included		2013
Course content	1- Topics like Fourier analysis should be left to mathematics. 2- Topics like AM and FM should be reduced in size because they exist in the communications engineering course in the second year. 3- The spectral estimation topic should be extended. 4- The communication circuits which serve the communication theory	1- Removal of Fourier analysis 2- Reduction of the AM and FM topics to avoid overlapping with other courses. 3- Extension of the spectral estimation part 4- Devoting a section for communication circuits		2013

	should be addressed in detail			
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**Course Coordinator:**

Prof. Moawad I. Desouky

**Authorized by Department Council in :**

**Authorized by Faculty Council in:**

**Head of Department:**

Prof. Saber H. Zainud-Deen

**Date:** / /