



# Annual Course Report

## (Advanced Communication Systems)

### A- Basic Information

1 Title and Code	Advanced Communication Systems EC428				
2 Programme(s) on which this course is given	EC				
3 Academic year / Level of programme	4 <sup>th</sup> year / 2 <sup>nd</sup> Semester				
4 Units/Weekly hours					
Lecture	<input type="text" value="3"/>	Tutorial/Practical	<input type="text" value="2"/>	Total	<input type="text" value="5"/>

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

i- Assoc. Prof. Dr. Abd El-Naser A. Mohamed

Course coordinator: Assoc. Prof. Dr. Abd El-Naser A. Mohamed

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

Topic	No of hours	Lecture
<ul style="list-style-type: none"> <li>Electromagnetic Waves Spectrum</li> <li>Optical Amplifiers</li> </ul>	3	1
<ul style="list-style-type: none"> <li>Optical Communication Networks</li> <li>DFB Semiconductor Lasers (VCSELs)</li> </ul>	6	2
<ul style="list-style-type: none"> <li>Optical Testing and Measurements</li> <li>Optical Splice and Connectors</li> </ul>	6	2
<ul style="list-style-type: none"> <li>Asynchronous Transfer Mode (ATM)</li> </ul>	6	2
<ul style="list-style-type: none"> <li>Synchronous Optical Network (SONET) and Synchronous Digital Hierarchy (SDH)</li> </ul>	6	2
<ul style="list-style-type: none"> <li>Wireless Optical Communications Networks</li> </ul>	3	1
<ul style="list-style-type: none"> <li>Satellite optical communication systems</li> <li>Optical Submarine systems</li> </ul>	6	2
<ul style="list-style-type: none"> <li>Optical Computers Networks</li> </ul>	6	2
<b>Total sum</b>	<b>42</b>	<b>14</b>

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	<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	-
- Lack of .....	-
- Algorithms.....	-

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

**8. Course Enhancement:**

- 1- Modification of the contents a removal of overlapping.
- 2- Inclusion of up to date topics in wired and wireless communications

### 9. Action Plan for Academic Year 2011 – 2012

Improvement Field	Weak points	Action required	Person Responsible	Completion Date
Assessment Methods	Good		- Faculty - Department	2012
Quality of Teaching and Learning	Good		- Faculty - Department	2012
Learning resources	Not enough	Several references are required		2012
Course content	1- The course is wholly devoted to optics, in spite of being a general communication systems course. 2- Some topics are overlapping with some other topics in the optical communications course like measurements splices and connectors 3- Advanced topics in wireless communications and wired communications must be also addressed	1- Modification of the contents a removal of overlapping. 2- Inclusion of up to date topics in wired and wireless communications		2011

**Course Coordinator: Assoc. Prof. Dr. Abd El-Naser A. Mohamed**

**Authorized by Department Council in :**

**Authorized by Faculty Council in:**

**Head of Department:**

Prof.

**Date: / /**