



Annual Course Report

(Mobile Communication Systems)

A- Basic Information

- 1 Title and Code Mobile Communication Theory **EC423**
- 2 Programme(s) on which this course is given EC
- 3 Academic year / Level of programme 4th year / 1st Semester (2011/2012)
- 4 Units/Weekly hours

Lecture Tutorial/Practical Total

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

i- Dr. Mona Shokair

Course coordinator: Dr. Mona Shokair

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
Fundamental of Mobile Radio	8	6	2	A1,a3,b1,b4,D1
Cellular Structure- Mobile Radio Network Structure	8	6	2	A3,a4,b1,b6,c3, c4,D1,d3
Channel Allocation Techniques - Mobile Radio Propagation Channels	8	6	2	A4,a8,b6,b8,D6, d9
Diversity and Combining Techniques - System Capacity Analysis	4	3	1	A8,a12,b8,b12, c12,D1,d9
Digital Cellular Mobile Radio - Modulation Techniques	8	6	2	A1,a4,b6,b8,c2, c12,D3,d9
Modulation Techniques - Multiple Access Techniques - Operating Systems	8	6	2	A4,a12,b6,c3, c12,D6
3 rd – Generation Systems	8	6	2	A4,b12,c3,D1
Radio cognitive network safety	4	3	1	A4, B12, C3,D9

Aspects				
SUM	56	42	14	

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 wireless communication systems -
- Lack Of Software Programs -
- Algorithms.....

7. Comments from external evaluator(s):

8. Course Enhancement:

Rather than giving general description of systems, detailed explanation is required.

Continuous modification of this subject to be up to date.

Inclusion of several references

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	Inclusion of several references		2012
Course content	1-Detailed explanation of the topics in the contents is required 2- The system structures and mathematical analysis is required for each of these systems and the difference between them. 3- Study of the different channel characteristics is	1-Rather than giving general description of systems, detailed explanation is required. 2- Continuous modification of this subject to be up to date.		2011

	required.			
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Course Coordinator: Dr. Mona Shokair

Authorized by Department Council in :

Authorized by Faculty Council in:

Head of Department:

Prof.

Date: / /