



Annual Course Report

(DIGITAL SIGNAL PROCESSING)

A- Basic Information

- 1 Title and Code DIGITAL SIGNAL PROCESSING EC 324
- 2 Programme(s) on which this course is given EC
- 3 Academic year / Level of programme 3rd year / 2nd Semester (2012/2013)
- 4 Units/Weekly hours
- | | | | | | |
|---------|--------------------------------|--------------------|--------------------------------|-------|--------------------------------|
| Lecture | <input type="text" value="3"/> | Tutorial/Practical | <input type="text" value="3"/> | Total | <input type="text" value="6"/> |
|---------|--------------------------------|--------------------|--------------------------------|-------|--------------------------------|

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
Introduction	6	3	3	a1, b2,b3 C1,d2
Fundamentals of Discrete Time Signals and systems.	12	6	6	a4 , a3, b11, C2,C6, d3
Review study of Analog Filters	6	3	3	a5, b15, C7,d4
Digital Filter Design	12	6	6	a5, B7, C6,D6
Realization of Digital Filter Design ,	18	9	9	A24, B3,b7, C1,D9
Transform Algorithm (DFT , and FFT)	12	6	6	a1, b15, C6,d2,d3
Power Spectrum Estimation	12	6	6	a24, B2, C12,D9
Principle of Digital Image Processing.	6	3	3	a14, B5, C13,D6
SUM	84	42	42	

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 %

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 signal processing -
- Lack of background in software programming -

7. Comments from external evaluator(s):

8. Course Enhancement:

- 1- Removal of all unnecessary and redundant material.
- 2- Inclusion of modern topics in the field of signal processing

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	- This subject required a lab	- Establishment for a lab for this course.	- Faculty - Department	2013
Learning resources	No resources	-Inclusion of several references		2013
Course content	1- some Topics like adaptive filters, Multirate signal processing, and digital image processing should be added in advance	1- Removal of all unnecessary and redundant material. 2- Inclusion of modern topics in the field of signal processing		2014

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: /