



Annual Course Report (3rd Year Communications Laboratory)

A- Basic Information

- 1 Title and Code 3rd Year Communications
Laboratory **EC326**
- 2 Programme(s) on which this course is given EC
- 3 Academic year / Level of programme 3rd year, 2nd semester
- 4 Units/Weekly hours

Lecture Tutorial/Practical Total

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

i- Dr. Abdel_Majeed Sharshar

Course coordinator: Dr. Abdel_Majeed 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 | Week |
|------------------------------------|-------|
| Amplitude Modulation(AM) | 1 |
| Frequency Modulation (FM) | 2 |
| Pulse Code Modulation (PCM) | 3 |
| Phase Locked Loop (PLL) | 4-5 |
| Microprocessor(MP) | 6-7 |
| Digital Modulation- | 9-10 |
| Oscillators | 11 |
| Filters (Feed Back) | 12-13 |
| Amplifiers. | 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 | <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 modulation systems -
- Lack of devices for digital communications -

7. Comments from external evaluator(s):

8. Course Enhancement:

1-Inclusion of several references

2-Dividing the students into small groups with more than one lab

9. Action Plan for Academic Year 2011 – 2012

| Improvement Field | Weak points | Action required | Person Responsible | Completion Date |
|----------------------------------|--|--|---------------------------|-----------------|
| Assessment Methods | Most of the mark should be on the lab | - Modification of the assessment plan to fit into this criterion. | - Faculty - Department | 2012 |
| Quality of Teaching and Learning | 1-The number of students is huge to make experiments in a single lab. | - Dividing the students into small groups with more than one lab | - Faculty - Department | 2012 |
| Learning resources | No resources | -Inclusion of several references | | 2012 |
| Course content | 1- A single lab for the year is not a good practice. 2- There should be a laboratory for each subject to serve its requirements | Modification of the teaching plan to establish a lab for each subject requiring lab. | | 2012 |

Course Coordinator: Dr. Abdel_Majeed Sharshar

Authorized by Department Council in :

Authorized by Faculty Council in:

Head of Department:

Prof. Saber H. Zainud-Deen

Date: /