



Annual Course Report (٢٠١٢-٢٠١٣)

(ENGINEERING PHYSICS ٣)

A- Basic Information

- ١ Title and Code Engineering physics (٣) PM ١٠٣
- ٢ Programme(s) on which this course is given
- ٣ Academic year / Level of programme First Year- 1st Semester
- ٤ Units/Weekly hours
- | | | | | | |
|---------|--------------------------------|--------------------|--------------------------------|-------|--------------------------------|
| Lecture | <input type="text" value="٣"/> | Tutorial/Practical | <input type="text" value="٢"/> | Total | <input type="text" value="٥"/> |
|---------|--------------------------------|--------------------|--------------------------------|-------|--------------------------------|

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

- i- Prof. Mohamed Dawood.
ii- Dr. Ahmed Abo-Arais.

Course coordinator: Prof. Mohamed Dawood..

External evaluators: Prof. Sayed M. Farag

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

<i>Topic</i>	No of hours	Lecture	Tutorial/ Practical
1. <i>Crystal Structure</i>	12	4	4
2. <i>X-rays</i>	3	1	1
3. <i>Optical Properties</i>	6	2	2
4. <i>Quantum Mechanics</i>	12	4	4
5. <i>Band Theory</i>	3	1	1
6. <i>Quantum Theory of solids</i>	6	2	2
7. <i>New Topics</i>			
Total sum	42	14	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.

٣. Student Assessment:

Method of Assessment	Percentage of total
Written examination	٦٠
Midterm exams	٢٤
Oral Examination	٠
Practical/laboratory work	١٦
Other Assignments/class work	٠
Total	١٠٠ %

Members of Examination Committee:

- i- Prof. Mohamed Dawood.
- ii- Dr.Ahmed Abo-Arais.
- Prof. Mohamed Fokaireen.

Role of external evaluator:

- Review examination to cover all objectives of the syllabus.
- Confirming reliability and feasibility of the examination.
- Determining repetition of the questions.

٤. Facilities and Teaching Materials:

Totally adequate	<input type="checkbox"/>
Adequate to some extent	<input checked="" type="checkbox"/>
Inadequate	<input type="checkbox"/>

٥. Administrative Constraints

- Students need extra hours to practice their exercises.
- Insufficient Lab. Technicians.

٦. Student Evaluation of the course: Response of Course Team

- | | |
|---|--|
| - Insufficient background in experimental work. | - An extra exercises and solved problems are added to the practical part of the course |
|---|--|

∇. Comments from external evaluator(s):

- The following topics must be added to the course:
Simple harmonic motion and Waves.

∧. Course Enhancement:

Action Plan for Academic Year ٢٠١٢ – ٢٠١٣:

Improvement Field	Weak points	Action required	Person Responsible	Completion Date
Assessment Methods	Midterm only & Reports	- add quizzes - Research, survey	Lectures	٢٠١٣
Quality of Teaching and Learning	- lack of facilities - Huge number of students	- Increasing data show numbers -Dividing the students into subgroups	Faculty	٢٠١٢
Learning resources	Lack of availability of teaching & learning resources	Increasing number of computers and Labs workshop facilities	- Faculty - Department	٢٠١٤
Course content	١-To be renewed and developed ٢-Adding new topics suggested by the external evaluator.	٢٠% of courses to be reviewed and replaced by new topics Simple harmonic motion and waves topics	١- lectures and department ٢- Faculty and departement.	٢٠١٢

Course Coordinator:
Prof. Mohamed Dawood.

Head of Department:

Prof.Dr. Magdy Kamel