



Annual Course Report (٢٠١٢-٢٠١٣)

(Production Engineering)

A- Basic Information

- ١ Title and Code Production Engineering PM ٠٠٦
- ٢ Programme(s) on which this course is given
- ٣ Academic year / Level of programme Preparatory
Level (٠) – Semester (٢nd)
- ٤ Units/Weekly hours

Lecture Tutorial/Practical Total

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

i- Prof. Dr. Mustafa Eissa

Course coordinator: Prof. Dr. Mustafa Eissa

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

Topics	No of hours	Lecture/ hours	Tutorial
Course outlines, contents, aims and intended outcomes.	ε	ϣ	ϣ
Engineering materials include ferrous and non-ferrous metals, mechanical properties, and how to change them.	∧	ε	ε
Metal forming, casting, drawing, rolling, extrusion...etc.	∧	ε	ε
Machine tools, Centre lathe, shaper, drilling machine, milling machine, grinding machine, broaching...etc.	∧	ε	ε
Joining of metals, welding, riveting, bonding, fastening, ...etc.	ε	ϣ	ϣ
Nonconventional techniques, ECM, EDM, ECDM, ECG, LBM, EBM, USM, AJM, WJM, AWJM.....etc.	∩ϣ	∧	∧
CNC machines an introduction, dimensioning, programming, G-codes,...etc.	∧	ε	ε
Total sum	οϣ	ϣ∧	ϣ∧

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.

۳. Student Assessment:

Method of Assessment	Percentage of total
Written examination	۶۰
Midterm exams	۱۰
Oral Examination	۲۰
Practical/laboratory work	۰
Other Assignments/class work	۰
Total	۱۰۰ %

Members of Examination Committee:

۱. Prof. Dr. M. Eissa
۲. Prof. Dr. T. Elsayed Taha
۳. Prof. Dr. M.I. Moad

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

۴. Facilities and Teaching Materials:

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

۵. Administrative Constraints

- Students need extra hours in the workshop to practice their exercises.

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

- | | |
|---|---|
| - Insufficient background in material science and physics | - An extra exercises and solved problems are added to the course. |
|---|---|

۷. Comments from external evaluator(s):

No comment.

۸. Course Enhancement:

٩. 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	Lecturer	٢٠١٣
Quality of Teaching and Learning	Huge number of students	Dividing the students into subgroups.	Faculty	٢٠١٢
Learning resources	Lack of availability of teaching & learning resources	Increasing workshop facilities	- Faculty - Department	٢٠١٤
Course content	To be renewed and developed.	٢٠٪ of courses to be reviewed and replaced by new topics	- Lecturers - Department	٢٠١٣

Head of Department:

Prof. Dr. Magdy Kamel