

Course report of

Theory of Metal Cutting

Course Code: MDP 371

2019/2020

University: Ain Shams

Faculty: Engineering

A- Basic Information

1- Title and code :

Theory of Metal Cutting

Course Code: MDP 371

2- Program on which the course is given :

B.Sc. Mechanical Engineering (Production)

3- Year/Level of program :

Third Year / level 4 /

1- Units: hrs.

(i) Lecture :

2

(ii) Tutorial :

2

(iii) Total :

4

2- Names of lecturers contributing to delivery of the course :

i -

Prof. Dr. M.A. El- Hakim

ii -

iii -

Course coordinator:

Prof. Dr. M.A. El- Hakim

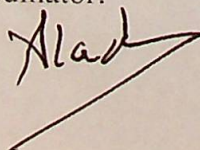
External evaluator:

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Course Coordinator:

Prof. Dr. M.A. El- Hakim

Signature:



B- Statistical Information

No. of students attending the course: 52

		Number	Percentage (%)
Students completing the course		52	100 %
Results	Passed	49	94.2
	Failed	3	5.8
Grading Of successful students	Excellent	9	17.3
	Very Good	18	34.6
	Good	12	23.1
	Pass	10	19.2

C- Professional Information

1-- Course Teaching:

Topic	No. of Hours	Lecturer
- Basic Concepts & Definitions	2	M. A. El Hakim
- Cutting Tool Materials	2	
- Tool Geometry	2	M. A. El Hakim
- Chip Formation	2	
- Mechanics of Metal Cutting	2	M. A. El Hakim
- Cutting Forces & Power Consumption	2	
- Cutting Temperature	2	M. A. El Hakim
- Cutting Fluids	1	
- Tool Failure - Tool Life	2	M. A. El Hakim
- Chatter, Causes & Factors	2	
- Surface Quality	2	M. A. El Hakim
- M/Cg Economy	2	
- Optimum M/Cg Variables & Machinability	2	M. A. El Hakim
	1	

Topics Taught as a percentage of the content specified

☒ >90%

☐ 70 - 90%

☐ <70%

Reasons in detail for not teaching any topic

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Course Coordinator: Prof. Dr. M.A.el Hakim

Signature:

Alad

Teaching Methods Lectures

Seminar/Workshop:

Class Activity: (Tutorials)

☒
☐
☒

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:
...Research on a CD-video on Metal Removal N/A

2- Student assessment:

Method of assessment	Percentage of total
Written examination	70 %
Oral examination	0 %
Practical/laboratory work	0 %
Other assignments/class work	30 %

Members of examination committee

i – Prof. Dr. M.A. El- Hakim

Role of external evaluator

N/A.....

3- Facilities and teaching materials:

Totally adequate

☒

Adequate to some extent

☐

Inadequate

☐

List any inadequacies

4- Administrative constraints:

List any difficulties encountered
No difficulties

5- Student evaluation of the course:

Response of Course Team

List any criticisms

...No criticism.....

Course Coordinator:

Prof. Dr. M.A. El- Hakim

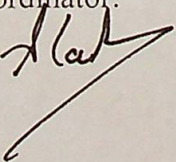
Signature:

El-Hakim

6- Comments from external evaluator(s): Response of course team

.....N/A.....
.....
.....

Course Coordinator:

Signature: 

Prof. Dr. M.A. El- Hakim