



**Mansoura University
Faculty of Engineering**

Production and Mechanical Design Engineering Department

**Postgraduate Program Report
M.Sc.: Mechanical Design**



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Postgraduate Program Report
M.Sc.: Mechanical Design

A. BASIC INFORMATION

Program Title	Master: Mechanical Design
Field of the program	Mechanical Design
System applied for the program	Courses (One Year) + Thesis
Department offering the program	Production and Mechanical Design Engineering
Date of curriculum approval	1984

Academic Year / Level	2013/2014
Number of Courses	9 + Technical English Language
Number of Weeks	40
Lecture Hours/Week	20 hrs (2hrs/Course)
Total Hours	80×9
Credit Hours	50×9

B. SPECIALIZED INFORMATION

B.1. Statistics

Element	Number	Percent
Number of student <i>Enrolled</i> in the program	12	
Number of student <i>Completing</i> the program	12	100
Number of students <i>Passed</i> the program	3	25
Number of <i>Excellent</i> graded students	0	0
Number of <i>Very Good</i> graded students	1	8.33
Number of <i>Good</i> graded students	2	16.67
Number of <i>Pass</i> graded students	0	0

Courses' Details

No.	Course	Code	Excel.	V.G.	Good	Pass	Fail
1	Mechanical Vibration	PRE4781	0	0	6	3	1
2	Mechanics of Elasticity and Plasticity	PRE4784	0	1	3	4	2
3	Tribology	PRE4786	1	1	0	3	4
4	Numerical Stress Analysis	PRE4787	1	1	2	1	0
5	Design of Mechanical Systems	PRE4790	1	2	1	1	0
6	Machine Tool Design	PRE4791	1	0	1	2	1
7	Optimum Design of Mechanical Units	PRE4792	0	0	0	3	2
8	Material Technology (2)	PRE4794	0	0	1	2	2
9	Computer Applications	PRE4795	0	2	3	5	1
10	Research Seminar	PRE4796	3	2	2	1	2
11	Technical English Language	—	0	2	4	1	3

Date of Program Report Approval: 7/1/2015

Coordinator: **Prof. Dr. Hassan Ali Soltan**

Department Head: **Prof. Dr. Hassan Ali Soltan**



B.2. Academic Standards

National Academic Reference Standards (NARS) for Engineering

B.3. Standard Measurement Reference for the Program

Questionnaire

B.4. Program Guide

Available

B.5. Periodic Review of the Program

Not available

B.6. Compatibility of the Academic Structure of the Program with Education Target

Moderate

B.7. Regulatory and Administrative Constraints

Constraint	Intensity		
	High	Moderate	Low
Shortage of staff members		*	
Lack of communication with industry	*		
Lack of coordination between the faculty sectors	*		
Ineffective acceptance rules for the students	*		
Bad utilization of the available facilities	*		

B.8. Students' Evaluation of the Program

Global Benefit Value (25%)

Methods of Evaluation

Questionnaire and Interview

Evaluation s' Details:

No practical application is established for the program

No real communication with industries and other societies

Time schedules aren't suitable

Shortage of education facilities while Staffs' load is high

Students' motivation is low

No effective rules for students' selection to evaluate their abilities for joining the program

B.9. Program Enhancement Suggestions

Suggested Enhancement	Necessity		
	High	Moderate	Low
Developing training arrangements with industry	*		
Adding new education facilities	*		
Developing the programs to accommodate market needs	*		
Establishing serious rules for student acceptance	*		
Emphasizing the cooperation between departments	*		
Reconstructing the current program	*		

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B.10. Comments from External Evaluators

Not available

B.11. Students' Suggestions

Suggestion	Implemented?	
	Yes	No
Developing training arrangements with business sectors and industry		*
Reconstructing the current program and adding new courses	*	
Developing the program to accommodate market needs and technology	*	
Actuate the internal training classes and workshops		*

B.12. Cooperation with Industry

Not available

B.13. Quality Management and Development

Follow up (Not enough)

Effectiveness of Internal Auditing System (Not enough)

Observations of the External Auditing System (Not available)

B.14. Program Development Proposals

Area	Description	Completion	Responsible
Program	Reconstruction of current program	Done	Department
External training	Making arrangements with industry	One year	Department
Labs/Workshops	Modernizing the labs and workshops	One year	Management
Library	Adding new books	Done	Department
Other Facilities	Adding additional education facilities	One year	Management
Methods	Modernizing the teaching methods	One year	Lecturers

B.15. Instructors

No.	Name	Position	Courses
1	Prof. Dr. Hassan Ali Soltan	Professor	Technical English Language
2	Dr. Mohamed Samy Algyaar	Associate Professor Emeritus	Mechanical Vibration Design of Mechanical Systems Research Seminar
3	Prof. Dr. Mohamed Ahmed Shabara	Professor Emeritus	Mechanics of Elasticity and Plasticity Research Seminar
4	Prof Dr. Ahmed Mostafa Albahloul	Professor Emeritus	Machine Tool Design Tribology Research Seminar
5	Dr. Noha Foda Ibrahim	Assistant Professor	Optimum Design of Mechanical Units Numerical Stress Analysis Research Seminar
6	Dr. Ahmed Mohamed Galal	Assistant Professor	Computer Applications Research Seminar

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