Manufacturing Engineering and Production Technology B.Sc.

Program Report

2012-2013

Content

1. General	5
1.1. Basic Information	5
1.2. Staff Members	5
1.3. External evaluation of program	5
2. Professional Information	5
2.1. Statistic	5
2.2. Academic Standards	9
2.2.1. Achievement of program intended learning outcomes, ILO's	10
2.3. Achievement of program aims	16
2.4. Assessment methods	16
2.5 Student achievement	16
2.6 Quality of teaching and learning	17
2.7 Effectiveness of student support systems	18
2.8 Learning resources	18
2.9 Quality management	19
3. Proposals for program development	20
4.Progress of previous year's action plan	21
5. Action plan	21
Appendix 1: Annual Course Reports	23

Manufacturing Engineering and Production Technology PROGRAM REPORT

November 2013

1. General

1.1 Basic Information

- 1- Program title: Manufacturing Engineering and Production Technology.
- 2- Program type: Single.
- 3- Department offering the program: Manufacturing Engineering and Production Technology.
- 4- Co-coordinator: Dr. Abdelmagid A. Abdalla
- 5- Year of operation: 2002-2003

1.2 External Evaluators:

- Prof. Dr Tawfik Tawfik M. El-Midani: Professor of Production Engineering, Production Engineering and Mechanical Design Department, Faculty of Engineering, Mansoura University.
- Prof. Dr. Mohamed Abdel Mohsen Sayed Mahdy: Head of Design and Production Department, Faculty of Engineering, Ain Shams University.

Comments of external evaluator and other stakeholders

a) Comments of stakeholders:

- 1) The department, as a part of the modern academy for engineering and technology has been established according to the decree no. 2003 dated 25/10/2000 and modified by the ministerial decree no. 296 dated 5/3/2002.
- 2) The major area for students studying in the department is manufacturing engineering and Production technology. But other major can be easily added as most of the needed subjects and most of the needed laboratories, as well as the needed teaching staff already exist.
- 3) Advanced and modern manufacturing methods are included in the curricula of the department.
- 4) Other important aspects of the educational system are totally regarded, that includes; implementation methods and techniques, full awareness of technical systems and computer related use.
- 5) Development of research skills and team work through the preparation of project research documents, third year and fifth year projects, and gathering data from similar projects.

b) Comments of external evaluator

As the external evaluators reports were performed for the relevant program last year, and as these reports are valid for five years, so, the comments of external evaluators will not be repeated in this report.

1) First Evaluator

Refer to previous report (2010/2011)

2) Second Evaluator

Refer to previous report (2010/2011)

2. Professional Information

2.1 Statistics

- 1-No. of students starting the program at 2009-2010: 110 (students accepted in the Academy the academic year 2008-2009 were 1309 students with a ratio 8.4 %
- 2-Ratio of students` attending the program in 2012-2013 to those of accepted in the Academy the academic year 2008-2009: 92/1309 = 7.03 %
- 3-No. and percentage of students passing in each year for the students graduated in 2013

Table (1): No. and percentage of students passing in each year/level/semester

		<i>-</i>	3 3	
Yea	ar	Number of students	No of passing Students	Percentage of passing students
Second	2009-2010	110	79	71.8 %
Third	2010-2011	98	82	83.66 %
Fourth	2011-2012	95	80	84.2 %
Fifth	2012-2013	92	81	88.04 %

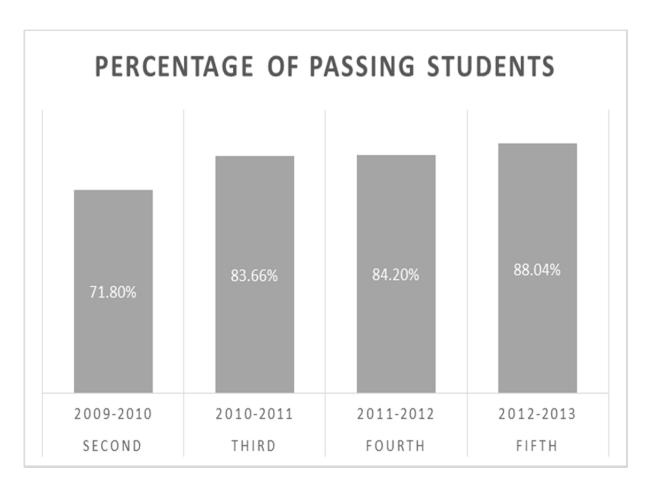


Figure (1): Ratio of students (graduated in 2013) passing in each year/level/semester

4-No. of students completing the program and as a percentage of those who started: 92 / 110 = 83.63%

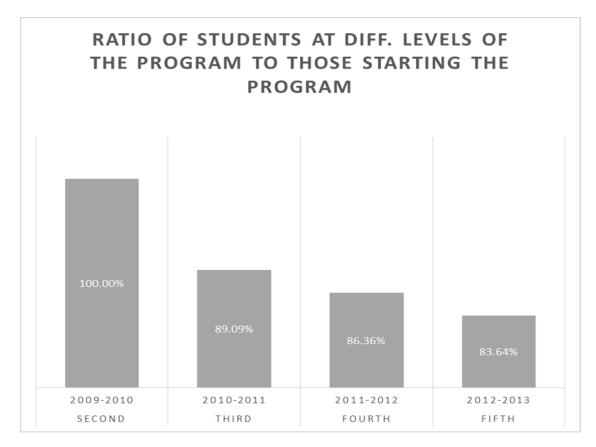


Figure (2): No. of students completing the program and as a percentage of those who started 5-Grading: No. and percentage in each grade

Table (2): No. and percentage of students passing in each grade

Year	No. of Students	Excellent	V. good	Good	Suff.	Failed
2 nd year 2009-2010	110	4	13	14	48	31
%	100%	3.6 %	11.8 %	12.7 %	43.6 %	28.2 %
3 rd year 2010-2011	98	12	16	12	42	16
%	100%	12.2 %	16.3 %	12.2 %	42.9 %	16.3 %
4 th year 2011-2012	95	9	11	20	40	15
%	100%	9.47 %	11.6 %	21.05 %	42.1 %	15.8 %
5 th year 2012-2013	92	15	16	21	29	11
%	100%	16.3 %	17.39 %	22.82 %	31.52 %	11.95 %

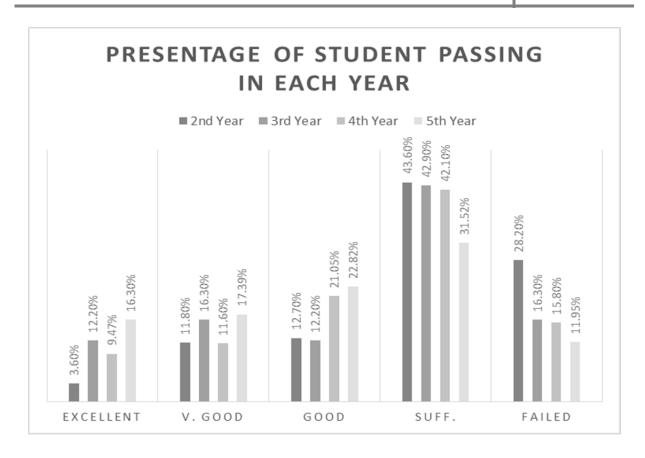


Figure (3): No. and percentage of students passing in each grade

Academic year	Number	Percentage
students joining the program on Sept 2012	92	100%
students completing the program at May 2013	60	65.2%
students completing the program at Nov 2013	21	22.8%
Total Number of students completing the program at 2013	Not	
	available	

Table (3): No. and percentage of students passing in each grade -5th year

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Year		Exc	cellent	V	good	(Good	Su	fficient	fa	ailed
	i cai	No.	%	No.	%	No.	%	No.	%	No.	%
	5 th year 2012- 2013 (92 students)	15	16.3%	16	17.4%	21	22.83%	29	31.53%	11	11.9%

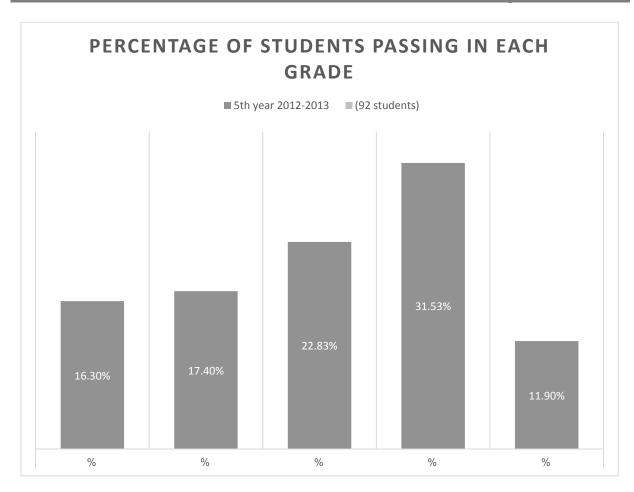


Figure (4): No. and percentage of students passing in each grade 5th year

6-First destinations of graduates:

i. Proceeded to appropriate employment %	Not available
ii Proceeded to other employment %	Not available
iii Undertaken postgraduate study %	Not available
iv. Engaged in other types of activity %	Not available
v. Unknown first destination %	Not available

2.2 Academic Standards

2.2.1 Achievement of program intended learning outcomes, ILO's:

2nd year Manufacturing Eng. & Prod. Technology

Code	Course Name	Knowledge & Understanding	Intellectual Skills	Practical & Professional Skills	General &Transferable Skills
		Α	В	С	D
A060	Civil Engineering Technology	5, 7, 11, 18	2	1, 7, 16	3
B200	English Language III	2, 9, 10		12	3
B211	Mathematics III	1, 5	1, 2, 3, 7	1, 7	1
E210	Computer Programing I	2, 5, 12, 14, 16, 17	1, 2, 3, 4, 8, 11, 13	1, 2, 5, 7, 16	3, 4, 9
M201	Fluid Mechanics	1, 2, 3, 4, 5, 8, 10, 12, 13, 16, 18	1, 2, 3, 4, 7, 8, 12, 13, 14, 16, 17	1, 2, 3, 4, 5, 6, 8, 12, 13, 16, 17, 18	1, 2, 3, 5, 8
M250	Engineering Skills I	2, 3, 6, 10, 13, 18	3, 6, 7, 8, 9	2, 4, 10, 13	1, 3, 4, 9
M251	Mechanics of Machines I	1, 2, 13	2, 3, 4, 5, 17	1, 11	1, 2, 3, 5
M261	Strength of Materials	3, 4, 5, 10, 13, 18	2, 6, 7, 13, 14, 17	5, 12, 15, 17	2, 7
B202	History of Science & Technology	5, 7, 8, 9, 11	2, 7, 9	4, 10	2, 3, 6, 9
B212	Mathematics IV	1, 5	1, 2, 3, 7	1, 7	1
E213	Computer programing II	2, 5, 12, 14, 16, 17	1, 2, 3, 4, 8, 11, 13	1, 2, 5, 7, 16	3, 4, 9
M222	Thermodynamics	1, 2, 3, 4, 5, 8, 10, 12, 13, 18	1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17	1, 2, 3, 4, 5, 6, 8, 12, 13, 16, 18	1, 2, 3, 5, 8
M252	Mechanics of Machines II	1, 4, 5, 12, 13, 18	2, 3, 12, 13, 15, 17	1, 2, 5, 11	2, 6, 8, 9
M253	Engineering Skills II	2, 3, 6, 10, 13, 18	3, 6, 7, 8, 9	2, 4, 10, 13	1, 3, 4, 9
M262	Material Technology I	1, 3, 4, 8, 10, 12, 13, 17, 18	1, 5, 13, 17	1, 4, 11, 12, 15, 17	7, 9
M271	Principles of Manufacturing	3, 8, 13, 14	4, 9, 18	5, 8, 11, 12, 15	1, 8, 9

3rd year Manufacturing Eng. & Prod. Technology

Code	Course Name	Knowledge & Understanding	Intellectual Skills	Practical & Professional Skills	General &Transfera ble Skills
		A	В	С	D
B300	English Language IV	2, 9, 10		12	3
B311'	Mathematics V	1, 5	1, 2, 3, 7	1, 7	1
E030	Electrical & Electronic Circuits	1, 3, 5, 8, 12, 14, 16, 18	1, 2, 4, 7, 11, 16	1, 2, 5, 7, 16	3, 7
M310a	Computer Application I	1, 4, 12, 15, 18	1, 2, 3, 4, 13, 16, 17	1, 3, 5, 7, 13, 16, 17, 19	6
M331	Thermo-Fluid Machinery	4, 5, 8, 10, 17, 18	2, 3, 4, 5, 12, 13, 14, 17, 18	1, 2, 3, 5, 12, 13, 16, 17, 18	1, 3, 5, 7, 9
M351	Mechanics of Machines III	1, 4, 5, 12, 13, 18	2, 3, 12, 13, 15, 17	1, 2, 5, 12	2, 6, 8, 9
M360	Industrial Psychology	9, 11, 19	3, 5, 9	2, 4, 8	1, 2, 6, 9
M363	Manufacturing Technology I	1, 3, 4, 8, 12, 13, 14, 18	1, 4, 12, 13, 17, 18	3, 8, 9, 10, 11, 12, 15, 17, 19	1, 3, 6, 9
E050	Electrical Power Systems	1, 3, 5, 8, 12, 14, 16, 18	1, 2, 4, 7, 11, 16	1, 2, 5, 7, 16	3, 7
M310b	Computer Application II	3, 4, 8, 10, 15	1, 2, 9, 18	1, 5, 12, 13, 14, 17, 19	1, 3, 6, 7, 9
M312	Industrial Management	2, 5, 7, 9, 11, 13, 19	4, 9, 10	8, 9	1, 3, 6
M352	Measuring Instruments & Instrumentation	5, 10	6, 11, 14	5, 11, 15, 16, 17	2, 8
M364	Manufacturing Technology II	3, 4, 8, 13, 14, 18	2, 9, 12, 13, 18	1, 2, 5, 12, 15, 18, 19	1, 3, 6, 7, 9
M371	Machine Design I	3, 4, 5, 13, 14, 18, 19	1, 2, 3, 6, 13, 16, 17, 18	1, 3, 6, 12, 13	3, 5, 7, 9
M399	Project I	1, 2, 4, 5, 8, 10, 12, 13, 14, 17, 18, 19	1, 2, 3, 7, 9, 13, 17	1, 2, 4, 5, 7, 12, 13, 14, 16, 17, 19	1, 3, 4, 6, 8, 9

4th year Manufacturing Eng. & Prod. Technology

Code	Course Name	Knowledge & Understanding	Intellectual Skills	Practical & Professional Skills	General &Transfera ble Skills
		Α	В	С	D
B411	Mathematics VI	1, 5	1, 2, 3, 7	1, 7	1
M454	Production Management	1, 7, 8, 10, 19	1, 2, 9, 10, 13	1, 6, 9, 12, 17	1, 3, 6, 7, 9
M461	System Dynamics	1, 5, 12, 19	1,2,7,11,13,14,15,16	1, 5, 6, 7, 16, 17	1, 2, 7, 9
M471	Machine Design II	3, 4, 5, 13, 14, 18, 19	1, 2,3,6,13,16, 17, 18	1, 3, 6, 12, 13	3, 5, 7, 9
M481	Manufacturing Technology III	3, 4, 5, 8, 12, 13, 15	2, 4, 9, 10, 12, 15, 18	8, 11, 13, 14, 19	8, 9
E051	Signal Processing	1, 3, 5, 8, 12, 14, 16, 18	1, 2, 4, 7, 11, 16	1, 2, 5, 7, 16	3, 7
M462	Material Technology II	1, 3, 4, 8, 10, 12, 13, 17, 18	1, 5, 13, 17	1, 4, 11, 12, 15, 17	7, 9
M472	Computer Aided Design (C A D)	1, 2, 4, 8, 12, 13, 14 15, 17, 18	1, 2, 3, 5, 6, 8, 11, 13, 15, 16	1, 2, 3, 4, 6, 7, 11, 13, 14	1, 4, 6, 7, 9
M474	Machine Tool Design	3, 4, 5, 10, 13, 18	2, 7, 9, 14, 17, 18	1, 3, 5, 15, 18	2, 5, 7
M482	Automatic Control	1, 4, 13, 18	1, 5, 11, 13, 17	1, 3, 5, 7, 16, 17	3, 9

5th year Manufacturing Eng. & Prod. Technology

Code	Course Name	Knowledge & Understanding	Intellectual Skills	Practical & Professional Skills	General &Transferabl e Skills
		А	В	С	D
M552	Operations Research	1, 5, 7, 12	1, 2, 4, 8, 9, 13	1, 7, 9, 11	1, 2, 6
M561	Engineering Economy	1, 2, 5, 11	1, 2, 3, 4, 9,12,13, 15	1, 6, 7, 12	1, 2, 8
M571	Computer Aided Manufacturing (C A M)	2, 3, 5, 8, 10, 13, 15	2, 8, 12, 13, 18	1, 5, 6, 12, 14, 15, 17, 18	1, 3, 6, 7, 9
M573	Automation	4,6,8,13,15,16,18, 19	1, 2, 6, 9, 10, 12, 18	1, 3, 6, 14, 17	1, 3, 6, 7, 9
M578	Hydraulic Power Systems	1, 3, 8, 10	1, 2, 5, 8, 13, 14	1, 3, 5, 8, 11, 12, 16	1, 3, 7, 9
M580a	Elective I	4, 5, 6, 7, 12, 13, 19	1, 2, 3, 6, 7, 10, 11, 12, 15, 18	1, 2, 7, 8, 11, 19	1, 3, 5, 6, 9
M598	Report	10, 11	4	2, 4, 12, 13	6, 9
B512	Laws & Regulations for Engineering	6, 7, 9	10	9, 10, 11	3, 7
B572	Pollution & Society	6, 7, 8		8, 10	1, 9
M574	Quality Control	1, 6, 8, 13, 14	1, 2, 11, 14	1, 7, 10, 12, 17	1, 3, 6, 7, 9
M576	Computer Integrated Manufacturing (C I M)	1, 4, 6, 14, 15, 16, 19	1, 8, 9, 10, 12, 18	2, 5, 6, 14, 17, 19	1, 3, 6, 7, 9
M580a	Elective II	1, 4, 8, 10, 12, 14, 16	1, 2, 5,6,11,12,13, 16	1, 2, 3, 7, 8, 12, 17	1, 2, 4, 5, 7
M581	Advanced Manufacturing Methods	1, 3, 8, 13, 14	2, 3, 9, 12, 17, 18	1, 2, 6, 8, 14, 17, 19	1, 3, 6, 7
M599	Project II	1, 2, 4, 5, 8, 10, 12, 13, 14, 17, 18, 19	1, 2, 3, 7, 9, 13, 17	1, 2, 4, 5, 7, 12, 13, 14, 16, 17, 19	1, 3, 4, 6, 8, 9

Regarding the previous table we observe the achievement of program intended learning outcomes to be covered by all courses taught:

Comments of external evaluator and other stakeholders

1- Basic Information

a) Comments of stakeholders:

- 1) Full knowledge of relevant scientific methods of the design process of mechanical systems is emphasized.
- 2) A very strong interest in new trends and advanced methods of production which help in manufacturing of precise products of mechanical systems as well as other classical manufacturing means.
- 3) Ergonomics and human needs as a user of space and his comfort is a priority.
- 4) Other important aspects of the educational system is totally regarded, that includes; implementation methods and techniques, computer related use.
- 5) Full knowledge of design process are taught, to provide methods of applying functional, environmental, social and economic aspects of design.
- 6) Development of research skills and team work through the execution of projects during third and fifth years.

b) Comments of external evaluator

1) First Evaluator

Refer to previous report (2010/2011)

2) Second Evaluator

Refer to previous report (2010/2011)

2- Professional Information

a) Comments of stakeholders:

The academy is applying a real advanced teaching system, based upon maintaining balance between theoretical fundamentals and practical application, emphasizing coherence and integration among the study, development requirements of products and generally industry, and technological means (classical and/or advanced).

The teaching system is based upon advanced teaching techniques using illustrations and experimental models to clarify the relation between different parameters associated in a certain phenomenon. Manual drawing skills are first developed to help student acquire presentation skills. The academy also develops design skills using computer programs packages starting with Auto Cad up to the very sophisticated levels of 3- D programs.

b) Comments of external evaluator

1) First Evaluator

Refer to previous report (2010/2011)

2) Second Evaluator

Refer to previous report (2010/2011)

3- Regulation & Evaluation

a) Comments of stakeholders:

- 1) The highest failure rate in the department is in the second year which is the first student's year in studying manufacturing engineering and production technology, this indicates that insertion of student into the department is not an easy process.
- 2) Students of the fifth year received the highest proportions of grade "Excellent" and this is likely to point out the high academic quality of the graduate that is why most of graduates have an excellent chance to work in a closely related work to their discipline.
- 3) There should be an orientation courses for first year student after finishing their academic year to properly guide students to their specialization. Also, student choice of different department should be constrained according to some qualifying courses.

b) Comments of external evaluator

1) First Evaluator

Refer to previous report (2010/2011)

2) Second Evaluator

Refer to previous report (2010/2011)

4- Program Courses

a) Comments of stakeholders:

Program courses were very well prepared. Courses specifications include listing of lecture notes, in addition to reference books and recommended references.

The data of some references should be updated and be in the standard form according to the formal form used in course specification.

Minor topics should be changed and repetitions of the same topic in different courses should be resolved.

b) Comments of external evaluator

1) First Evaluator

Refer to previous report (2010/2011)

2) Second Evaluator

Refer to previous report (2010/2011)

5- Overall Evaluator Opinion & Free Comments

a) Comments of stakeholders:

None

b) Comments of external evaluator

1) First Evaluator

Refer to previous report (2010/2011)

2) Second Evaluator

Refer to previous report (2010/2011)

2.3 Achievement of program aims

Reviewing the achieved program aims covered by the achievement of the different educational aims in the courses, which vary from one course to another according to the course nature, It has been noticed fully achievement of program aims which are:

- 1- Providing practical professionally-supervised summer training programs.
- 2- Applying and developing advanced teaching methods.
- 3- Considering and implementation of continual development of taught curricula.
- 4- Maintaining balance between theoretical fundamentals and practical application.
- 5- Emphasizing coherence and integration between theoretical and applied courses and the needs of manufacturing engineering and production technology in general and specifically the advanced and new trends.
- 6- Broadening the scope of taught courses, enriching their content by studying some case studies and experiences and preparing seminars.
- 7- Engaging students of third and fifth years in realistic research work through their projects that give a good reflection of student ability to grasp knowledge and different skills from different courses.

2.4 Assessment methods

- The department evaluates the students using various methods such as final exam, midterm exam, oral exams, weekly or biweekly assignments, quizzes, practical exam, seminars, and researches, according to the course structure and assessment methods mentioned in courses specifications.
- The assessment methods must cover the intended learning outcomes mentioned in the course specification. The teaching staff and the head of the department are keen on revising the examinations sheets to be sure that they cover at least 80 % of the course content.
- The final grade awarded to student in a course is usually based on the grades for both final exam and semester work and for some courses, the evaluation of practical and/or oral exam is also included

2.5 Student achievement

Graduated Students achievement through the program

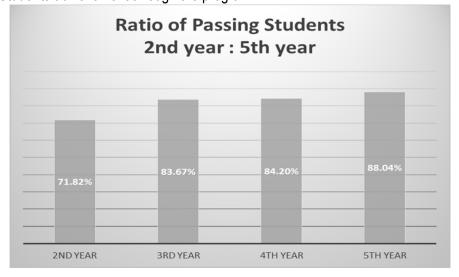


Figure (5): Graduated Students achievement through the program

After reviewing the results of students finishing the program in 2009-2010 regarding their achievements in each grade level throw different years, we can observe the increase in passing ratio for the same students each year.

Comments of external evaluator and other stakeholders on statistics from Section B:

a- Comments of stakeholders:

- Students are coping well with the learning system and, methods implemented at the academy. They
 became familiar to hard work, libraries, books, periodicals, as well as, to computer use and internet.
 They present very well seminars, able to work in groups; each member of the group is executing his task
 efficiently.
- The applied system implies discipline and help student form hard work habit. Libraries, field and research work help developing analytical skills. Seminars help developing presentation skills.

b- Comments of external evaluators :

1- First Evaluator

Refer to previous report (2010/2011)

2- Second Evaluator

Refer to previous report (2010/2011)

2.6 Quality of teaching and learning

Comments of external evaluator and other stakeholders including students

a- Comments of stakeholders

- The Academy adopt methods of teaching and learning based on traditional patterns of education courses that meet the goals and targets that are taught in accordance with the approved list.
- The formation of a committee of faculty members to study the distribution of subjects on the staff members in accordance with the teaching specialty to ensure the quality of teaching and learning.
- The diversity in summer training programs according to the variables and labor market needs and requirements of the parties outside the academy.
- The development of strategies and announcements of the Department through regular monthly meetings with faculty members and teaching assistants to develop and discuss the plan of action and put forward solutions to problems that are reviewed.
- Some of the decisions are being taken corrective actions to keep high performance of the teaching process in the department as the results of self-evaluation.
- Ongoing work of the internal audit and continuous assessment tasks.

b- Comments of external evaluators :

1- First Evaluator

Refer to previous report (2010/2011)

Second Evaluator

Refer to previous report (2010/2011)

2.7 Effectiveness of student support systems

Commentary on both academic and pastoral/personal support for all students

The department is interested in the students' support through the following:

- Students of the same level are divided into classes; each includes at most 30 students that have exercise for each course in a special class and period. However inside the laboratories the class is divided into groups; each includes no more than 6 students; to carry out the assigned experiment under the supervision of specialized engineers.
- Motivate outstanding students to participate in seminars, cultural activities, and attending scientific conferences. Also, they got additional marks according to the extent of their activities.
- Each level of students has a faculty member as a counselor that helps in solving students' problems (educational, social, economic, etc...) and follow-up the complaints and to respond in a specific period.
- The counselor held a periodic meeting with students to build a good relation and help in solving their problems.
- There is a schedule of final revision for the studied courses at the end of each semester to assist low and middle caliber students.
- Students are helped in the case of special circumstances such as cases of disease, the death
 of a parent, injuries during an incident, by taking into account the circumstances of each case in
 providing the requirements of this year, especially in materials that rely on semester marks and
 attendance.
- Encourage students to manage, and organize cultural activities.
- Establishing a database for students and save all the data and grades of the year in electronic archive for each student

2.8 Learning resources

- A. Number and ratio of faculty members and their assistants to students
- Staff members and the assistants (Appendix 1 Program Specification)
- Percentage of staff members to students: 1:25
- Percentage of staff assistants to students: 1:15
- B. Matching of faculty members' specialization to program needs.
- All the Staff members are Qualified and they are adapted with the program requirements. (C.V. for all staff members are included in Appendix 1 - Program Specification)
- C. Availability and adequacy of program handbook
- The program specification is explained to the students attending the program through interviews with the students, in addition there are lecture notes for most of the courses available to the students.
- D. Adequacy of library facilities.
- The academy scientific library is annually refurbished with the books needed for enriching the specialty according to the budget.
- E. Adequacy of laboratories
- The department has 18 laboratories serving different courses taught in the department.

- A computer laboratory consists of 60 computers is specified to the department to help in teaching 6 courses.
- The department is going to buy a virtual lab. That can help for teaching the lab for a lot of courses

F. Adequacy of computer facilities

- Labs are in need of increase of the instruments to cope with the increasing number of students attending the program and to build virtual labs that help in teaching different courses in the dept.
- Renovation of the design software packages periodically.

G. Adequacy of field/practical training resources

• The department is keen on the compatibility of the summer training programs with the program specification and the requirements of the labor market. Care to provide opportunities for all students of the department with the diversity of training sites.

H. Adequacy of any other program needs None

2.9 Quality management

A. Availability of regular evaluation and revision system for the program

There is a unit for Quality Assurance in the department began its course of action by doing self-assessment to the department at the end of the academic year 2009/2010, in order to identify and develop the strength points and to identify and treat the weak points (SWOT). The views of all interested parties (faculty members, their assistants, students, the administrative bodies, representatives of civil society, and stakeholders) in the courses and the educational process have been explored, and sample of students has been taken (10%) of the total number of students of the college. As for the faculty members they were asked all and for the administrative apparatus the sample (30%) of the total number has been analyzed. The results of the poll were statistically analyzed then a view of these results was discussed with the College Board to take decisions on further development.

The results of self-evaluation and quality management Reflection of the results of self-evaluation of the department performance on quality management

Work is already underway to make some decisions for correcting the overall performance of the department in light of the results of self-evaluation Examples of such decisions:

- The work of the internal audit and continuous assessment with identified tasks.
- Work is permanently and continuously to develop the capacity of faculty members.
- The department is interested in students and alumni, and follows up their proceeding in the labor market, to improve the outcomes and competitive position within the community.

Strengthening activities for Quality Management

It was possible to identify some areas for future promotion and development in the light of the results of self-evaluation of the performance of the department and of these areas.

Strengthening the quality management in the department through:

- The continued development of the courses objectives with global trends.
- Developing the skills of the administrative apparatus in the use of technology.
- Prepare an annual plan for periodic maintenance of institutional facilities.

• Preparation of a 3 year plane to hire staff members and assistances to modify the their ratios to the number of students.

B. Effectiveness of the system

The quality management system is effective since there are:

- Quality management regulations.
- Enforcing and application of the quality measures for all aspects of the teaching process.
- Feedback for the program evaluation.
- Corrective actions for program flaws.
- Recording and listing all these activities in annual course reports and in the program report

C. Effectiveness of Faculty and University laws and regulations for progression and completion

There is a quality section in the department which is a subordinate from the quality center of the Academy. Its role is not only monitoring and assuring the implementation of the quality measures in the department but also to plane, manage, and help in execution of quality measures of the academy.

D. Effectiveness of program external evaluation system:

I- External evaluators

The department program is evaluated by two qualified external evaluators.

II- Students

The program courses, the teaching methods and the assessment methods are evaluated by the students each semester by questionnaires handed to a sample of students for each course. As for the fifth year students they fill in addition to the courses questionnaires another one concerned with the program questionnaire to evaluate the whole program.

III- Other stakeholders

At the end of the academic year there is an annual meeting for the stakeholders and representatives of the civil community for the reconnaissance of their evaluation to the academic year.

E. Faculty response to student and external evaluations

All the external evaluator's comments were taken in consideration and are stated with the department response in the "Program Specification".

There is an action plan set to be implemented in the following academic year.

3. Proposals for program development

A. Program structure (units/credit-hours)

The credit hours system has been approved by the ministry of high education and will be applied starting the academic year 2012/2013.

B. Courses, deletions, additions, and modifications

The course coordinator can modify some of the contents of the curriculum without changing the major goals of the course which is approved by the academy and the ministry of high education . This change is done by reference to the department council.

C. Staff development requirements

According to the plane, two staff members and two assistants have been appointed in the department during the academic year 2011/2012. The department has a plan to increase the number of staff within the next 3 years to reach the ratio 1:25 for the staff to students, and the ratio of 1:15 for the staff assistants to students.

4. Progress of previous year's action plan

Action Identified	Person Responsible	Progress of action
Preparation of the program specification for the credit hour system and reviewing it.	The department and the Administration of the Academy	Done
Specialized training courses for all staff and teaching assistants	Training Sector of the Academy	Two training courses have been held: 1- Use of Technology in teaching (10-11/11/2013) 2- Different methods of examinations and student evaluation(12-14/11/2013)
Complete the shortage in educational staff. (According to the plane one Staff member and 2 teaching assistants).	Administration of the Academy	Two staff members and Also two Assistants (one of them has to be in military service for one year) have been added to the department

5. Action plan

Action required	Person Responsible	Completion Date
Choice of external reviewers to review the program specifications for credit hour system.	The department and the Administration of the Academy	Academic year 2013-2014
Specialized training courses for all staff and teaching assistants	Training Sector of the Academy	During Midterms of 2013/ 2014 semesters
Complete the shortage in educational staff. (According to the plane one Staff member and 2 teaching assistants).	Administration of the Academy	Academic year 2013-2014
Holding the third scientific conference of the academy	Administration of the academy	After finishing the graduation projects.
Scientific conference of the department	The department	Two conferences, one in each semester
Preparation of a plane for developing the department and its laboratories for the next 4 years.	The department	At the beginning of 2013/2014

Program Coordinator Dr. Abdelmagid A. Abdalla

Signature:

Appendix 1

Annual Course Report

2012-2013

1st year Basic Science

	Code	Name
1	B101	English Language I
2	B111	Mathematics I
3	B121	Mechanics I
4	B131	Physics I
5	B141	Chemistry
6	E111	Introduction to Computer I
7	M150	Engineering Drawing & Projection I
8	M160	Production Engineering I
9	B102	English Language II
10	B112	Mathematics II
11	B122	Mechanics II
12	B132	Physics II
13	B142	Descriptive Geometry
14	E112	Introduction to Computer II
15	M151	Engineering Drawing & Projection II
16	M161	Production Engineering II

Annual Course Report (Academic Year 2008-2009)

1- Title and code: B101: English Language (1)

2- Program(s) on which this course is given: Computer and Tech. English

3- Year/Level of program: First year / 1st Semester

4- Unit hours Lectures --- Tutorial 2 hrs Total 2 hrs

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

Abdel-Hamid Mohammed El-Khoreby

Course coordinator: Abdel-Hamid Mohammed El-Khoreby

External evaluator Non

B- Statistical Information

No. of students attending the course: No. 1309 % 100 No. of students completing the course: No. 1245 % 95.11

Results:

	No.	%	Grading of successful students:		
Passed	1110	89.16		No.	%
Failed	135	10.84	Excellent	109	8.03
			Very Good	150	12.04
			Good	240	19.28
			Pass	620	49.80

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
• Engineering – what is it all about?	6	1
Alfred Nobel	10	bdel El- by
• The infinitive and the -ing form	2	Abde id El-
Subject verb agreement	8	rof. Dr. Ab Hamid E Khoreib
• Revision	4	of. H
Total hours	30	P.

Topics taught as a percentage of the content specified:

>90 % 🗸 70-90 % - <70% 100%

Reasons in detail for not teaching any topic Non

If any topics were taught which are not specified, give reasons in detail Non

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory: Non

Seminar/Workshop: Non

Class activity: A monthly discussion of what is given in the previous weeks.

Case Study: Non

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

Non

3- Student assessment: Through Quizzes, mid term Exams and attendance reports

Method of assessment Percentage of total: 30%

Written examination 70 %

Oral examination ---
Other assignments/class work 10 %

Mid-Term Exam 20 %

Total 100 %

Members of examination committee Prof. Dr. Abdel-Hamid Mohammed El-Khoreby

Prof. Dr. Hassan Awad

Role of external evaluator Non

4- Facilities and teaching materials: Dictionaries, Tape recorders....etc

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Non

5- Administrative constraints

List any difficulties encountered

> Non

6- Student evaluation of the course:

List any criticisms Response of course team

Non Non

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

Non Non

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2009 - 2010

Actions required Completion date Person responsible

Non

Course coordinator: Abdel-Hamid Mohammed El-Khoreby

Signature:

Date:

Annual Course Report (Academic Year 2008-2009)

A- Basic Information

- 1- Title and code: Math. I, Differential Calculus and Modern Algebra (B111)
- 2- Program(s) on which this course is given: Basic Science
- 3- Year/Level of program: 1st Year (General) 1st Semester
- 4- Unit hours Lectures 4 hrs Tutorial 2 hrs Practical -hr Total 6 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr. M. El-Maddah, Prof Dr. O. Elgayar, Prof Dr. Aly Essway,

A. Prof. Dr. M. Khalifa

Course coordinator A. Prof. Dr. M. Khalifa

External evaluator

B- Statistical Information

No. of students attending the course: No.1309 % 100
No. of students completing the course: No.1246 % 95.2

Results:

	No.	%	Grading of successful students:		
Passed	982	78.8		No.	%
Failed	264	21.2	Excellent	208	16.7
			Very Good	144	11.5
			Good	168	13.5
			Pass	462	37.1

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
Function limit continuity	6	1
Derivatives	8	. O . \\ \frac{1}{2} \
Inverse function and trigonometric function	6	dah dah Or yar yar vay
Exponealial and Logarithmic function	6	. Dr lad of [of [of [of E
Hyperpolic and inverse hyperbolic functions	7	Prof. Dr. M. Maddah , Prof Dr. O Elgayar, Prof Dr. Al Essway,
Application of differential calculus	12	<u> </u>
Sets	6	
Elements of Mathematical logic	10	Σ̈́_
Relation	8	of. Dr. l Khalifa
Mappings	9	Prof. Dr. Khalifa
Algebraic structure – Groups - Rings Fields	12	Prc
and applications		
Total	90	

Topics taught as	s a percentage of	the content s	pecified:	
>90 %	100	70-90 %		<70%

Reasons in detail for not teaching any topic Non

If any topics were taught which are not specified, give reasons in detail Non

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and computer supported learning

Practical training/ laboratory:
Seminar/Workshop:
None

Class activity: Numerical exercises

Case Study: Selected case studies

Other assignments/homework: By-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

Non

3- Student assessment:

Method of assessment Percentage of total

Written examination 70 %

Oral examination ---
Practical/laboratory work %

Other assignments/class work 10 %

Mid-Term Exam 20%

Total 100 %

Members of examination committeeProf. Dr. M. Elmaddah
A.Prof. Dr. M. Khalifa

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

.....

List any inadequacies

None

5- Administrative constraints

List any difficulties encountered

Limitation of number of data show in the principal building

6- Student evaluation of the course: Response of course team List any criticisms

1. Problems with the teaching

New teacher assistant will be engaged the next academic year.

assistant in exercises
2. A proposal to extend the subject and lecture it in two successive semesters

The actual content and number of lecturing hours are convenient now, considering the re-determined graduate profile

7- Comments from external evaluator(s): Response of course team
None None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2008 – 2009

Actions required Completion date Person responsible
None Aug. 2009 A.Prof. Dr. M. Khalifa

Course coordinator: A.Prof. Dr. M. Khalifa

Signature:

Date: Aug. 2008

Annual Course Report (Academic Year 2008-2009)

A- Basic Information

Title and code: B121: Mechanics (I)

2- Program(s) on which this course is given: General

3- Year/Level of program: First year / First term

4- Unit hours Lectures 2 hrs Tutorial 1hrs Practical Ohr Total 3hrs

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

Prof. Dr. Hassan Awad

Prof. Dr. Mahmoud El-Maddah

Course coordinator: Prof. Dr. Hassan Awad

External evaluator: Non

B- Statistical Information

No. of students attending the course: No. 1309 % 100 No. of students completing the course: No. 1239 % 94.65

Results:

	No.	%	Grading of successful students:		
Passed	818	66.02		No.	%
Failed	421	33.98	Excellent	15	1.21
			Very Good	50	4.04
			Good	176	14.21
			Pass	577	46.57

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
Basic Concepts of statics	,	
Resultant of concurrent forces in plane	2	
Representation of force vector in space	2	
Resultant of concurrent forces in space	2	ah
Equilibrium of a particle (in plane and in space)	4	nd add
Different types of support in plane	4	. Awad EI-Maddah
Distributed leads	2	
Equilibrium of rigid body in plane	4	Prof. Dr. Hassan Awad Prof. Dr. Mahmoud El-Mac
Different types of supports in space	4	
Equilibrium of rigid body in space	4	
Special cases of two, three and four force members	2	Prof. . Dr. N
Graphical solution of mechanisms	2	P of.
 Analysis of Trusses by the method of joints and by the method of sections. 	6	Pr
Final Revision	2	
Total hours	30	

Topics taught as a percentage of the co	ontent specified:
> 90 % 100 70 -96	0 %
Reasons in detail for not teaching any	topic —
If any topics were taught which are no	t specified, give reasons in detail
2- Teaching and learning methods:	
Lectures: Practical training/ laboratory: Seminar/Workshop: Class activity: Case Study: Other assignments/homework: If teaching and learning methods were	e used other than those specified, list and give reasons:
3- Student assessment:	
Method of assessment	Percentage of total
Written examination Oral examination	70 %
Practical/laboratory work	
Other assignments/class work	15 %
Mid-Term Exam	15 %
Total	100 %
Members of examination committee	Prof. Dr. Hassan Awad Prof. Dr. Mahmoud El-Maddah
Role of external evaluator	Non
4- Facilities and teaching materials:	
Totally adequate	Yes
Adequate to some extent	100%
Inadequate	
List any inadequacies	Non
5- Administrative constraints	
List any difficulties encountered ➤ New assistants needs more pre	eparation
6- Student evaluation of the course: List any criticisms	Response of course team
•	New assistants attend lectures and all exercises are Supervised by professors
7- Comments from external evaluator(s): Non	Response of course team Non
8- Course enhancement:	
Progress on actions identified in the prev Action State whether or not completed a	

9- Action plan for academic year 2009– 2010

Actions required

Completion date

Person responsible

Preparation of the course by new assistants

Nov.2009

Prof. Dr. Mahmoud El-

Maddah

Course coordinator: Prof. Dr. Hassan Awad

Signature:

Date: Nov.2009

Annual Course Report (Academic Year 2008-2009)

A- Basic Information

1- Title and code: B131 Physics 1

2- Program(s) on which this course is given: General 3- Year/Level of program: 1 st. year, 1 st. term.

4- Unit hours Lectures 4 hrs Tutorial 0 - Practical 2hr Total 6 hrs

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

Prof. Dr. M. El-Tawab Kamal.

Prof. Dr. Abo Elyazeed Badawy Abo Elyazeed. Course coordinator: Dr. M. El Tawab Kamal.

External evaluator : Non

B- Statistical Information

No. of students attending the course: No. 1309 % 100

No. of students completing the course: No. 1241 % 94.81

Results:

	No.	% Grading of successful stude			ents:	
Passed	973	80.02		No.	%	
Failed	248	19.98	Excellent	38	3.06	
			Very Good	85	6.85	
			Good	193	15.55	
			Pacc	677	5/1 55	

C- Professional Information

1- Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
Units and dimensions	4		2
Properties of matter	4		2
Gravitation	4		2
Gravitation, Heat and the First law of thermodynamics	4		2
Heat and the First law of thermodynamics, The Kinetic theory of gases	4		2
 The Kinetic theory of gases, Entropy and the second law of thermodynamics 	4		2
 Entropy and the second law of thermodynamics, Simple, Free damped, Forced Oscillations and circular motion 	4		2
Simple, damped, and Forced Oscillations	4		2
Simple, damped, and Forced Oscillations Wave Motion,	4		2
Wave Motion	4		2
Transverse Mechanical Waves	4		2
Longitudinal Mechanical waves and sound waves	4		2
Longitudinal Mechanical Waves and Sound waves	4		2
Longitudinal mechanical waves and sound waves	4		2
Ultrasonic Waves	4		2
Total hours	60		30

>90 % 70-90 % $\sqrt{}$	ent specified:
Reasons in detail for not teaching any topic: Permitted hours is not enough. If any topics were taught which are not specified, give reasons in detail	
2- Teaching and learning methods:	
Lectures: Classical lecturing using the vertical measurements. Seminar/Workshop: Non Class activity: YES Case Study: Selected case studies Other assignments/homework: weekly as	
If teaching and learning methods were used other than those specified, list and give reasons: Non	
3- Student assessment:	
Method of assessment	Percentage of total
Written examination Oral examination Practical/laboratory work Other assignments/class work Mid-Term Exam	60 % 20 % 10 % 10 %
Total	100 %
Members of examination committee	Dr. M. El Tawab Kamal.
Role of external evaluator	Non
4- Facilities and teaching materials:	
Totally adequate Adequate to some extent Inadequate List any inadequacies:	Yes 100% Non
5- Administrative constraints	
 List any difficulties encountered Limitation of number of data show in the principal building Limitation of number of operating experiments in the laboratory 	
6- Student evaluation of the course: List any criticisms	Response of course team
 Laboratory exercises are insufficient Problems with the teaching assistant in exercises A proposal to extend the 	This insufficiency is due to occasional defect in some experiments. More experiments will be added next year New teacher assistant will be engaged the next academic year. The actual content and number of lecturing hours are

30 **Program report** 2012-2013

profile

convenient now, considering the re-determined graduate

successive semesters

subject and lecture it in two

2012-2013

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

Non Non

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2009-2010

Actions required Completion date Person responsible

1. Provide more data show apparatuses Nov.2009 Prof. Dr M. El Tawab Kamal

2. Put more experiments in function in the lab.

Course coordinator: Prof. Dr M. El Tawab Kamal

Signature:

Date: Nov.2009

-	_	•		
Λ_{-}	Ra	212	Intor	mation
Α-	Das	אוכ	ши	IIIauvii

- 1- Title and code: Chemistry, B141
- 2- Program(s) on which this course is given: Basic Science Courses
- 3- Year/Level of program: First year, First Semester
- **4- Unit hours** Lectures 2hrs Tutorial 1hrs Practical 1hr Total 4 hrs
- 5- Names of lecturers contributing to the delivery of the course

Course coordinator Prof. Dr.: Shaban Ragab Gouda

External evaluator Non

B- Statistical Information

No. of students attending the course: No. 1309 No. of students completing the course: No. 1244

Results:

	No.	%	Grading of succes	sful student	:s:
Passed	1071	86.09		No.	%
Failed	173	13.91	Excellent	273	21.95
			Very Good	213	17.12
			Good	188	15.11
			Pass	397	31.91

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
Gas laws and gas liquifaction	6	
 Liquid state, Refrigeration & heat pump. 	5	_
Electrochemistry & Metallic corrosion.	5	Gouda
Solutions & Antifreezes.	5	Go
Thermo chemistry & Fuels & solar heat.	5	ج. ج.
Water Treatment & Desalination.	5	r. S
Polymers and Industry	6	f. Dr
Fuels and combustion	5	Prof.
Chemistry and Tech. of petroleum	6	_
Total hours	48	

>90		70-90 %		< 70 %		. 41
course.	detail for not teaching	g any topic :	Snortage in 1	eaching not	ars avallable foi	tne
If any topic	s were taught which a Non	re not spec	ified, give re	asons in det	ail	
2 Tooching one						
2- reaching and	l learning methods:					
Lectures:	Classical lecturing using	ng the white	e board , proj	ectors and [Data show	
Practical tra	aining/laboratory:	Practical	training and	experimenta	al measuremen	ts in Lab
Seminar/W	orkshop: Non					

2012-2013 **Program report**

Class activity: Numerical exercises;

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

100%

Non

3- Student assessment:

Method of assessment Percentage of total

Written examination

Oral examination
Practical/laboratory work
Other assignments/class work

Mid-Term Exam

Total 100 %

Members of examination committee Prof. Dr. S. R. Gouda Prof. Dr. A. M. Abu Talab

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered Non

6- Student evaluation of the course:

List any criticisms Response of course team

* A proposal to extend the subject and lecture in two

successive semesters

The actual content and number of lecturing hours are convenient now, considering the re-determined graduate

60 %

20 %

profile

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

Non Non

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2009- 2010

Actions required Completion date Person responsible

Provide more data show apparatuses Nov. 2009 Prof. Dr. S. R. Gouda

Course coordinator: Prof. Dr. S. R. Gouda

Signature: Date: Nov. 2009

A- Basic Information

- 1- Title and code: Introduction to Computer I, E111
- 2- Program(s) on which this course is given: 1st year General
- 3- Year/Level of program: 1st year-1st semester
- 4- Unit hours Lectures 2 hrs Tutorial 0 hrs Practical 2 hr Total 4 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr. Said A. Gawish

Course coordinator Prof. Dr. Said A. Gawish

External evaluator

B- Statistical Information

No. of students attending the course:

No. 1309

No. of students completing the course:

No. 1246

% 95.1

Results:

	No.	%	Grading of succes	sful students	S :
Passed	1141	89.6	-	No.	%
Failed	114	10.3	Excellent	137	10.9
			Very Good	182	14.6
			Good	228	18.2
			Pass	594	47 6

C- Professional Information

1 - Course teaching

Course teaching		
Topic Actually taught	No. of hours	Lecturer
Historical overview	2	
Mathematical topics	8	
Transfer functions, definition and case studies	10	
Block diagrams; conventions, block diagram algebra and reduction of block diagrams.	4	
Signal flow graphs; definition, conventions and Mason's formula	2	
Time domain analysis		
Transient response of proportional, integrating and first order elements.	4	Ę
Transient response of second order elements. Effect of location of roots of characteristic equation on the transient response	10	Prof.Dr Said Gawish
System identification based of the transient response.	21	aid (
Frequency response		i. Si
Frequency response; Polar plot and Bode plots.	6	of.D
System identification based of the transient and frequency responses.	4	<u> </u>
Accuracy of feedback systems; steady state error.	4	
Stability of feedback systems; Routh-Herwitz and Nyquest stability criteria.	5	
Root locus analysis	2	
Compensation of control systems	4	
Text editing	6	
Total hours	90	

	Topics taught as a percentage of the content >90 % √ 70-90 %	specified: <70%
	Reasons in detail for not teaching any topic If any topics were taught which are not speci	
2-	Teaching and learning methods:	
	Lectures: Using white board and computer Practical training/ laboratory: Computer labs Seminar/Workshop: None Class activity: Numerical exercises, computer Case Study: None Other assignments/homework: 2 Home	<u> </u>
	If teaching and learning methods were used on None	other than those specified, list and give reasons:
3-	Student assessment:	
	Method of assessment Written examination Oral examination Practical/laboratory work Other assignments/class work Mid-Term Exam Total	Percentage of total 60 % None 20 % 10 % 10 % 100 %
	Members of examination committee	Dr. Said A. Gawish Dr. Adel Khedr
	Role of external evaluator	None
4-	Facilities and teaching materials:	
	Totally adequate Adequate to some extent Inadequate List any inadequacies	Yes
5-	Administrative constraints	
	List any difficulties encountered Introducing a sound system in compute	er labs
6-	Student evaluation of the course: List any criticisms	Response of course team
	 The theoretical part is to much The student must learn how to read, this is do Some computer language must be tough 	one in second year
7-	Comments from external evaluator(s):	Response of course team
	None	-
8-	Course enhancement:	
	Progress on actions identified in the previous year Action State whether or not completed and give re	•

9- Action plan for academic year 2009-2010

Actions required Completion date Person responsible

1. Provide a sound system in computer labs

Course coordinator:

Prof. Dr. Said A.Gawish

Signature:

Date: 9 / 2008

Δ_	Racic	Infor	mation

- 1- Title and code: Engineering Drawing & Projection, M150
- 2- Program(s) on which this course is given: 1st year General
- 3- Year/Level of program: 1st year, 1st semester.
- 4- Unit hours

Lectures 1 hrs Tutorial 4 hrs Practical Total 5 hrs

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

Prof. Dr. Mamdouh Saber

Course coordinator

External evaluator None

B- Statistical Information

No. of students attending the course: No. 1309 % 100 No. of students completing the course: No. 1237 % 94.4.

Results:

	No.	%	Grading of succes	sful students	S :
Passed	1031	83.3	_	No.	%
Failed	206	16.7	Excellent	45	3.6
			Very Good	103	8.32
			Good	203	16.64
			Pass	680	55

C- Professional Information

1 - Course teaching

<u> </u>			
Topic Actually taught	Lecture hours	Practical hours	Lecturer
Drawing Instrument ,Drw sheets ,Scale ,Folding ,Lettering	2		_
Alphabet of line ;Geom,Construction	2		sayed
Theory of orthographic projection Proj. of Point; line ;true shape	2		
Projection of geometric solids	2		Saber
Development	2		
Cutting geometric solids with planes and its developed surfaces.	2		Mamdouh
Intersection of surfaces of geometric solids	2		
Multiview Drawing .	2		D.
Revision Problem	2		Prof.
Total hours	18] —

Topics taught as a percentage	age of the content specified:		
>90 % √	70-90 %	<70%	

Reasons in detail for not teaching any topic

Actual no. of teaching weeks for 1st term was 12 weeks in addition to a midterm exam week If any topics were taught which are not specified, give reasons in detail Non

2- Teaching and learning methods:

Lectures: Using white board and OHB Black board

Modern Academy for Engineering & Technology Manufacturing Engineering & Production Technology Dept.

2012-2013

Practical training/ laboratory: None

Seminar/Workshop: Non

Class activity: Drawing of several problem weekly using traditional method and free hand sketches

Case Study: selected cases

Other assignments/homework: weekly

If teaching and learning methods were used other than those specified, list and give reasons:

Non

3- Student assessment:

Method of assessment Percentage of total

Written examination 60 %
Oral examination Non

Practical/laboratory work

Other assignments/class work

Mid-Term Exam

20 %

Total 100 %

Members of examination committee Prof. Dr. Mamdouh Saber

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

Yes

....

List any inadequacies

5- Administrative constraints

List any difficulties encountered

- Limitation of no. of data show in principal building.
- Drawing haul aren't equipped with loudspeakers.
- Admission of students by the ministry of education in delay during the first term

6- Student evaluation of the course: Response of course team

List any criticisms

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

NONE

8- Course enhancement:

Progress on actions identified in the previous year's action plan: NO COMMENT
Action State whether or not completed and give reasons for any non-completion
Non

9- Action plan for academic year 2009 – 2010

Actions required Completion date Person responsible

. NONE

Course coordinator: Prof. Dr Mamdouh Saber

Signature:

Date: 9/2009

A- Basic Information

1- Title and code: M160: Production Engineering (1)

2- Program(s) on which this course is given: Manufacturing Eng. & Production Technology.

3- Year/Level of program: 1st year / 1st term

4- Unit hours: Lectures 1 hrs Tutorial -- Practical 4 hrs Total 5 hrs

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

Prof. Dr. M. Merdan Prof. Dr. A. Kohail

Course coordinator: Prof. Dr. M. Merdan

External evaluator: None

B- Statistical Information

No. of students attending the course: 1309
No. of students completing the course: 1242

Results:

	No.	%	Grading of succes	stul stud	lents:
Passed	1053	84.80		No.	%
Failed	189	15.20	Excellent	136	11.00
			Very Good	187	15,10
			Good	242	19.50
			Pass	488	39.30

C- Professional Information

1 - Course teaching

Торіс	Lecture hours	Tutorial hours	Practical Hours
Lecture Part: Every other week	14	12	44
Role of production engineer, production system, and types of	2		
industries.			
Classification and properties of Engineering materials	2		
Mechanical testing of engineering materials; tensile, impact tests,	5	4	4
hardness, and fatigue tests.			
Manufacturing processes classification. Casting processes; definition,	5		
advantages, and types. Sand casting process; different elements,			
advantages and limitations, types and properties of sand, and			
procedure of sand casting. Pattern design; allowances, sand			
moulding, and gating system. Die casting (gravity and pressure types),			
Centrifugal casting (horizontal and vertical axis), and investment			
casting.			
Practical Part:			
Casting Shop			4
Locksmith shop			4
Measurement and Ex Shop			4
Welding shop			4

Total	14	12	44
Practical Exams		8	
Forging shop			4
Sheet metal shop			4
Wood working shop			4
Grinding shop			4
Milling shop			4
Drilling and shaping shop			4
Turning shop			4

Milling shop				4
Grinding shop				4
Wood working shop				4
Sheet metal shop				4
Forging shop				4
Practical Exams			8	
Total		14	12	44
 Topics taught as a percentage of 				
	90 % <70%			
 Reasons in detail for not teaching 				
If any topics were taught which a	re not specified, give reasons	s in detail		
2- Teaching and learning methods:				
	using the white heard			
	using the white board			
 Practical training/ laboratory 				
	/orkshop			
Class activity:				
Solving problems concerning	the determination of materia	al ultimate :	stress, yield	stress,
% elongation, % reduction, an	. •			
Calculation of hardness numb	ers; HBN, HVN, HRC, and HRB	}		
Case Study: None				
 Other assignments/homework 	k: One assignment repor	t at the end	of the term	
 If teaching and learning meth 				
reasons: None		•	,	•
3- Student assessment:				
Method of assessment		Percentag	e of total	
Written examination) %	
Oral examination		<u></u>		
 Practical/laboratory work 				
 Other assignments/class wor 	k	40) %	
Mid-Term Exam		10	, ,,,	
Total		10	00 %	
Members of examination committee	ee Prof. Dr. M. Merdan ar	_		
Role of external evaluator		ne	ii itorian	
4- Facilities and teaching materials:				
 Totally adequate 	Yes			
 Adequate to some extent 	103			
 Inadequate 				
 List any inadequacies 	None			
List arry madequaties	None			
5- Administrative constraints				
List any difficulties encountered	None			
6- Student evaluation of the course:	D			
List any criticisms	Response of course team			

و ع 2012-2013 **Program report**

Modern Academy for Engineering & Technology Manufacturing Engineering & Production Technology Dept.

2012-2013

None None

7- Comments from external evaluator(s):

Response of course team

None

8- Course enhancement:

- Progress on actions identified in the previous year's action plan: None
- Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2008 - 2009

Actions required Completion date Person responsible

Preparation of new materials and cutting tools required for carrying out the practical work in

each shop

Course coordinator: Prof. Dr. M. Merdan

Signature: M. Merdan Date: 23 / 3 /2009

A- Basic Information

- 1- Title and code: B102: English Language (2)
- 2- Program(s) on which this course is given: Computer and Tech. English
- **3- Year/Level of program:** First year / 2nd Semester
- **4- Unit hours** Lectures hrs Tutorial 2 hrs Total 2 hrs
- 5- Names of lecturers contributing to the delivery of the course

Abdel-Hamid Mohammed El-Khoreby

Course coordinator: Abdel-Hamid Mohammed El-Khoreby

External evaluator Non

B- Statistical Information

No. of students attending the course: No. 1309
No. of students completing the course: No. 1213
% 92.66

Results:

	No. %		Grading of succes	sful student	s:
Passed	1108	91.34		No.	%
Failed	105	8.65	Excellent	148	12.20
			Very Good	202	16.65
			Good	252	20.77
			Pass	507	41.79

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
A symphony in Concrete	8	1
Electricity	10	.bdel El- iby
Subjects – verbs and objects	4	Abdoid El-
The verb BE	4	Dr. am hor
Revision	4	rof. Dr. Ak Hamid E Khoreib
Total hours	30	Pr

Topics taught as a percentage of the content specified:

Reasons in detail for not teaching any topic Non

If any topics were taught which are not specified, give reasons in detail Non

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/laboratory: Non
Seminar/Workshop: Non

Class activity: A monthly discussion of what is given in the previous weeks.

Case Study: Non

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons: Non

3- Student assessment: Through Quizzes, oral participation in class mid term Exams and attendance reports

Method of assessment Percentage of total: 30%

Written examination 70 %

Oral examination ---Other assignments/class work 10 %

Mid-Term Exam 20 %

Total 100 %

Members of examination committee Abdel-Hamid Mohammed El-Khoreby

Role of external evaluator Non

4- Facilities and teaching materials: Dictionaries, Tape recorders....etc

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered

> Non

Non

6- Student evaluation of the course: Response of course team

List any criticisms

Non Non

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

Non Non

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2009 – 2010

Actions required Completion date Person responsible

Non

Course coordinator: Abdel-Hamid Mohammed El-Khoreby

Signature: Date:

_	_	•				
Δ-	หล	SIC	Info	rm	ลtเก	n

- 1- Title and code: Math. II, Calculus of Integration Liner Algebra and Analytic Geometry (B112)
- 2- Program(s) on which this course is given: Basic Science
- 3- Year/Level of program: 1st Year (General) 2nd Semester
- 4- Unit hours: Lectures 4 hrs Tutorial 2 hrs Practical hr Total 6 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr. Ossama Elgayar, Prof Dr. Aly Essway, A. Prof. Dr. M. Khalifa

Course coordinator A. Prof. Dr. M. Khalifa

External evaluator

B- Statistical Information

No. of students attending the course: No. 1309 % 100
No. of students completing the course: No. 1213 % 92.7

Results:

	No. %		Grading of succes	sful student	ts:
Passed	866	71.4		No.	%
Failed	347	28.6	Excellent	134	11
			Very Good	114	9.4
			Good	128	10.6
			Pass	490	40.4

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
Integration (Definite and indefinite)	10	
Techniques of integration	16	
Applications of definite integrals	10	on
Infinite series with applications	9	Khalifa
Matrices	10	
Vectors in R ² and R ⁿ	6	Ξ̈́
Real vector Spaces	6	Dr.
Geometry in three dimensions	6	Prof.
Polar Coordinates	4	
Complex numbers	5	Ą
The Conic sections	8	
Total hours	90	

Topics taught as a percentage of the content specified:						
>90 %	100	70-90 %	<70%			

Reasons in detail for not teaching any topic None

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and computer supported learning

Practical training/ laboratory:

Seminar/Workshop: None

Class activity: Numerical exercises

Case Study: Selected case studies

Other assignments/homework: By-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment Percentage of total

Written examination 70 %

Oral examination ---
Practical/laboratory work %

Other assignments/class work 10 %

Mid-Term Exam 20%

Total 100 %

Members of examination committee Prof. Dr. Ossama Elgayar, A.Prof. Dr. M. Khalifa

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

Yes

List any inadequacies

None

5- Administrative constraints

List any difficulties encountered

- Limitation of number of data show in the principal building
- Limitation of number of operating experiments in the laboratory

6- Student evaluation of the course:

List any criticisms Response of course team

1. Problems with the teaching assistant in exercises New teacher assistant will be engaged the next academic year.

2. A proposal to extend the subject and lecture it in two successive semesters

The actual content and number of lecturing hours are convenient now, considering the re-determined graduate profile

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

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None **Action State whether or not completed and give reasons for any None-completion**None

9- Action plan for academic year 2008 – 2009

Actions required Completion date Person responsible
None Aug. 2009 A.Prof. Dr. M. Khalifa

Course coordinator: A.Prof. Dr. M. Khalifa

Signature:

Date: Aug. 2008

A- Basic Information

1- Title and code: B122: Mechancis (II)

2- Program(s) on which this course is given: General

3- Year/Level of program: First year / second term

4- Unit hours Lectures 2 hrs Tutorial 2hrs Practical Ohr Total 4 hrs

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

Prof. Dr. Hassan Awad

Prof. Dr. Mahmoud El-Maddah

Course coordinator: Prof. Dr. Mahmoud El-Maddah

External evaluator: Non

B- Statistical Information

No. of students attending the course: No. 1309 % 100 No. of students completing the course: No. 1210 % 92.44

Results:

	No.	%	Grading of success	itul students:	
Passed	821	67.85		No.	%
Failed	389	32.15	Excellent	22	1.82
			Very Good	50	4.13
			Good	107	8.84
			Pass	642	53.06

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer		
Kinematics of particles	4			
Rectilinear Motion	4			
Graphical solution	2			
Curvilinear Motion Cartesian coordinates	2	-		
Motion of projectiles	2	da		
Tangential and Normal components	2	vad Mac		
Radial and Transverse Components	2	Av I		
Kinetics of Particles Force and Acceleration method in different	4	sar		
Systems of Coordinates	4	Prof. Dr. Hassan Awad Prof. Dr. Mahmoud El-Maddah		
Kinetics of Particles	4			
Work and energy methed		. N		
 potential energy, Conservation of energy 	Pro			
Principle of impulse and momentum	4	rof		
A- Space mechanics	2	<u> </u>		
B- Impact	2			
C- Final Revision	2			
Total hours	30			

Topics taught as a percentage of the conte	
>90 % 100 70-90 %	
Reasons in detail for not teaching any top	
If any topics were taught which are not sp	ecined, give reasons in detail
2- Teaching and learning methods:	
Lectures: Classical lecturing using the wh	nite board and computer supported learning
Practical training/ laboratory: Non	
Seminar/Workshop: Non	
Class activity: Numerical exercises; solution	on of problems .
Case Study: Selected case studies	
Other assignments/homework: Bi-wee	ekly assignments
If teaching and learning methods were u Non	sed other than those specified, list and give reasons:
3- Student assessment:	
Method of assessment	Percentage of total
Written examination	70 %
Oral examination	
Practical/laboratory work	
Other assignments/class work	[15 %]
Mid-Term Exam	15 %
Total	100 %
Members of examination committee	Prof. Dr. Hassan Awad Prof. Dr. Mahmoud El-Maddah
Role of external evaluator	Non
4- Facilities and teaching materials:	
Totally adequate	Yes
Adequate to some extent	100%
Inadequate	
List any inadequacies	Non
5- Administrative constraints	
List any difficulties encountered ➤ New assistants needs more prepar	ation
6- Student evaluation of the course:	
List any criticisms	Response of course team
New assistants make some mistakes in solution of problems	New assistants attend lectures and all exercises are Supervised by professors
7- Comments from external evaluator(s):	Response of course team
Non	Non

ο^Ψ Program report 2012-2013

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None
Action State whether or not completed and give reasons for any non-completion
Non

9- Action plan for academic year 2009 – 2010

Actions required Completion date Person responsible
Preparation of the course by new assistants Nov. 2009 Prof. Dr. Mahmoud El-Maddah

Course coordinator: Prof. Dr. Mahmoud El- Maddah

Signature:

Date: Nov. 2009

A- Basic Information

1- Title and code: B132Physics II (Electricity, Magnetisms, Optics)

2- Program(s) on which this course is given: General

3- Year/Level of program: 1st Year, 2nd term

4- Unit hours Lectures 4 hrs Tutorial 0 hrs Practical 2hr Total 6hrs

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

Prof. Dr. Mohamed El Twab Kamal Prof. Dr. Abo El Yazeed B. Abo El Yazeed

Course coordinator Prof.. Dr. Mohamed El Twab Kamal

External evaluator : Non

B- Statistical Information

No. of students attending the course: No. 1309 % 100

No. of students completing the course: No. 1204 % 91.98

Results:

	No. % Gradii		Grading of succes	g of successful students:		
Passed	928	77.08		No.	%	
Failed	276	22.92	Excellent	91	7.56	
			Very Good	77	6.40	
			Good	184	15.28	
			Pass	576	47.84	

C- Professional Information

1 - Course teaching

Topic	Lecture hours	Lecture
Charge and Matter, The Electric Field, Gauss' law	4	
Gauss's law, Electric Potential	4	
Gauss's law applications	4	
Capacitors and Dielectric	4	
Current and Resistance, Electromotive force and	4	
Circuits		ab
The Magnetic Field, Ampere's Law	4	Tawab
Ampere's law, Inductance	4] [
Magnetic Properties of matter	4	Ξ
Magnetic Properties of matter, Electromagnetic Waves	4	<u>ا</u> .
Electromagnetic Waves	4	Prof. I
Electromagnetic Waves, Physical Optics, Polarization of light	4	P P
Polarization of light	4	1
Interference of light	4	
Interference of light, Diffraction of ligh	4	
Diffraction of light, Some applications	4	
Total hours	60	1

Topics taught as a percentage of the content speci	ified:
>90 % √ 70-90 %	<70%
Reasons in detail for not teaching any topic The no	_
If any topics were taught which are not specified,	give reasons in detail No
2- Teaching and learning methods:	
Lectures: Classical lecturing using the white boar	d and computer supported learning
laboratory: Experimental measurements in Lab	
Seminar/Workshop: Non	
Class activity: Yes	
Case Study: Take Home Exam	
Other assignments/homework: weekly assignr	
If teaching and learning methods were used other Non	er than those specified, list and give reasons:
3- Student assessment:	
Method of assessment	Percentage of total
Written examination Oral examination	60 %
laboratory work	20 %
Other assignments/class work	10 %
Mid-Term Exam	10 %
Total	100 %
. • • • • • • • • • • • • • • • • • • •	
Members of examination committee	Permanent staff of Physic and Assistants
Role of external evaluator Non	
4- Facilities and teaching materials:	
Totally adequate	Yes
Adequate to some extent	100%
Inadequate	
List any inadequacies	Non
5- Administrative constraints	
List any difficulties encountered	

- ➤ Limitation of number of data show in the principal building
- ➤ Limitation of number of operating experiments in the laboratory

6- Student evaluation of the course: List any criticisms

 Laboratory exercises are 	This insufficiency is due to occasional defect in some
insufficient	experiments. More experiments will be added next year
2. Problems with the teaching	New teacher assistant will be engaged the next academic
assistant in exercises	year.
3. A proposal to extend the	The actual content and number of lecturing hours are
subject and lecture it in two	convenient now, considering the re-determined graduate
successive semesters	profile

Response of course team

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

Non Non

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion

Non

9- Action plan for academic year 2009-2010

Actions required Completion date Person responsible

1. Provide more data show apparatuses Nov.2009 Prof. Dr M. El Tawab Kamal

2. Put more experiments in function in the lab.

Course coordinator: Prof. Dr M. El Tawab Kamal

Signature:

Date: Nov.2009

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Λ_	ĸз	CIC	Int	nr	ma	tion
_	LO	IJI.		OI.	Ha	LIVII

- 1- Title and code: Introduction to Computer II, E112
- 2- Program(s) on which this course is given: 1st year General
- 3- Year/Level of program: 1st year, 2 nd semester.
- 4- Unit hours Lectures 2 hrs Tutorial 0 hrs Practical 2 hr Total 4 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr. Said A. Gawish

Course coordinator Prof. Dr. Said A. Gawish

External evaluator

B- Statistical Information

No. of students attending the course: No. 1309 % 100 No. of students completing the course: No. 1219 % 93.1

Results:

No. <u>%</u>		Grading of successful students:			
Passed	1169	95.8	· ·	No.	%
Failed	50	4.1	Excellent	226	18.5
		<u>—</u>	Very Good	231	18.9
			Good	228	18.7
			Pass	484	39.7

C- Professional Information

1 - Course teaching

Topic Actually taught	Lecture hours	Practical hours	Lecturer
Information technology	2		
Communications	2		
Files and databases	2		ls.
Computer languages (HLL, LLL)	6		Gawish
Compilers	2		
Operating system (types and functions)	4		Said
Application software (Word Processing)	2	4	آ. ص
Application software (Spread Sheets)	4	10	Prof.
Application software (Files and Databases)	2	6	P.
Writing programs in HLL	4	10	
Total hours	30	30	

Topics taught as a percentage of the content specified:							
>90 %		70-90 %		<70%			
Reasons in detail	I for	not teaching any topic	Shortage of time				
If any topics wer	e tau	ight which are not speci	fied, give reasons	s in detail N	on		

2- Teaching and learning methods:

Lectures: Using white board and computer Practical training/ laboratory: Computer labs

Seminar/Workshop: Non

Class activity: Numerical exercises, computer applications

Case Study: Non

Other assignments/homework: 2 Homework

If teaching and learning methods were used other than those specified, list and give reasons:

Non

3- Student assessment:

Method of assessment Percentage of total

Written examination 60 %

Oral examination Non

Practical/laboratory work 20 %

Other assignments/class work 10 %

Mid-Term Exam 100 %

Members of examination committee Dr. Said A. Gawish

Dr. Adel Khedr Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered

Introducing a sound system in computer labs

6- Student evaluation of the course:

List any criticisms Response of course team

1. The theoretical part is too much. This is an introductory course.

2. Some computer language must be tought. This is done in second year.

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

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2009 - 2010

Actions required Completion date Person responsible

1. Provide a sound system in computer labs

Course coordinator: Prof. Dr Said A. Gawish

Signature:

Date: 9/2009

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Δ_	Rasic	Inform	nation

- 1- Title and code: Engineering Drawing & Projection II, M151
- 2- Program(s) on which this course is given: 1st year General
- 3- Year/Level of program: 1st year-2nd semester
- 4- Unit hours Lectures 1 hrs Tutorial 4 hrs Practical Total 5 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr. Mamdouh Saber ELsayed

Course coordinator External evaluator: Non

B- Statistical Information

No. of students attending the course: No. 1308 % 100 No. of students completing the course: No. 1209 % 92.4.

Results:

	No.	%	% Grading of successful stude		
Passed	878	72.6	· ·	No.	%
Failed	331	27.4	Excellent	28	2.3
			Very Good	59	4.9
			Good	104	8.6
			Pass	687	56.8

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
Importance of drawing section	2	Ш
Basic type of section :full section ;Imgitidinal; Cross section	2	
Off-set; aligned sections	2	Saber
Half-section: Revolved &Removed ; Auxiliary section	2	d Y
Conventional particle in ED	2	.Mamdouh Syed
Drawing of steel sections	2	Mar
Steel constructions	2	_ ا
Revision problem	2	Prof.Dr
Total hours	18	₫.

	Topics taught as a percentage of the content specified: >90 %		10					
		, , ,	· ·	specified		,]	
	addition to a	n midterm exam v	veek		•		^{2nd} term w None	as 12 weeks i
2-	Teaching and	d learning metho	ods:					
	Lectures:	Using white bo	ard / OHP					

Lectures: Using white board / OHP Practical training/ laboratory: Non Seminar/Workshop: None

Class activity: Drawing of several problem weekly using traditional methods and free hand sketch

Case Study: selected cases

Other assignments/homework: weekly

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment Percentage of total

Written examination
Oral examination
None
Practical/laboratory work
Other assignments/class work
Mid-Term Exam

60 %
None
None
20 %

Total 100 %

Members of examination committee Prof .Dr . Mamdouh Saber

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes

.....

None

5- Administrative constraints

List any difficulties encountered

> Drawing haul aren't equipped with loudspeaker

6- Student evaluation of the course: Response of course team

List any criticisms

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

None -

8- Course enhancement:

Progress on actions identified in the previous year's action plan: NO comment

Action State whether or not completed and give reasons for any none-completion

None

9- Action plan for academic year 2009-2010

Actions required Completion date Person responsible

1. None

Course coordinator: Prof. Dr. Mamdouh Saber

Signature:

Date: 9 / 2009

A- Basic Information

1- Title and code: M161: Production Engineering (2)

2- Program(s) on which this course is given: Manufacturing Eng. & Production Technology

3- Year/Level of program: 1st year / 1st term

4- Unit hours: Lectures 1 hrs Tutorial -- Practical 4 hrs Total 5hrs

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

Prof. Dr. M. Merdan Prof. Dr. A. Kohail

Course coordinator: Prof. Dr. M. Merdan

External evaluator: None

B- Statistical Information

No. of students attending the course: 1309
No. of students completing the course: 1213

Results:

	No.	%	Grading of succes	sstul students:		
Passed	1024	84.40		No.	%	
Failed	189	15.60	Excellent	59	4.90	
			Very Good	118	9.70	
			Good	202	16.70	
			Pass	645	53.20	

C- Professional Information

1 - Course teaching

Торіс	Lecture hours	Tutorial hours	Practical Hours
Lecture Part: Every other week	14	16	40
Metal forming processes; Hot and Cold Forming; Forging, Rolling, Extrusion, and Drawing processes	3		
Machining Processes; Traditional and Non-traditional.	1		
Turning Process; Basic concepts, main and secondary motions, machine tools used, cutting tools types and clamping, workpiece clamping and different turning operations performed, attainable accuracy and surface finish.	4		
Basic concepts of Drilling, Boring,. Production of accurate holes.	2		
Basic concepts of Shaping, and Milling processes	1		
Basic concepts of surface and cylindrical grindings	1		
Introduction into quality management and quality control	2	4	
Practical Part: Revision on the basic concepts, solution of some selective associated questions in turn of each shop. Beside, the student is applying the gained knowledge in carrying out a specially designed product in each one of these shops			
Casting Shop			4

Locksmith shop			4
Measurement and Ex. shop			4
Welding shop			4
Turning shop			4
Drilling and shaping shop			4
Milling shop			4
Grinding shop			4
Wood working shop			4
Sheet metal shop			4
Forging shop			4
Break-Even analysis and calculation of machining time		4	
Practical Exams		8	
Total	14	16	40

illing and shaping shop				4
lling shop			4	
inding shop				4
ood working shop				4
eet metal shop				4
rging shop				4
eak-Even analysis and calculation of machining t	ime		4	
actical Exams			8	
Total		14	16	40
 Topics taught as a percentage of the composition of the c	<70% topic of specified, give reasons g the white board None	in detail		
	of Break-even analysis	and Calcula	ntion of ma	chining
time	or break even analysis	arra Carcare		CB
Case Study: None				
 Other assignments/homework: 	One assignment repor	t at the 12 th	¹ week	
 If teaching and learning methods versions: 				ive
3- Student assessment:				
 Method of assessment Written examination Oral examination Practical/laboratory work Other assignments/class work Mid-Term Exam Total 			e of total) % 0 %	
Members of examination committee	Prof. Dr. M. Merdan an	d Prof. Dr. /	A. Kohail	

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate Yes

Adequate to some extent

Inadequate

List any inadequacies None

Prof. Dr. B. Sarangawy

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

List any criticisms Response of course team

None None

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

> None None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2008 - 2009

Actions required Completion date Person responsible Oct. 2008

Preparation of new materials and cutting tools required for carrying out the practical work in each

shop

Course coordinator: Prof. Dr. M. Merdan

Signature:

Date: 23/3 /2009

2012-2013 **Program report**

2nd year Manufacturing Eng. & Production Tech.

NO.	Code	Course
1	A060	Civil Engineering Technology
2	B200	English Language III
3	B211	Mathematics III
4	E210	Computer Programming I
5	M201	Fluid Mechanics
6	M250	Engineering Skills I
7	M251	Mechanics of Machines I
8	M261	Strength of Materials
9	B202	History of Science & Technology
10	B212	Mathematics IV
11	E213	Computer Programming II
12	M222	Thermodynamics
13	M252	Mechanics of Machines II
14	M253	Engineering Skills II
15	M262	Materials Technology I
16	M271	Principles of Manufacturing

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1- 7	Title and co	de: <i>A060: Ci</i>	vil Engineeri	ng Technology				
2- P	rogram(s) c	n which this	course is giv	en: Mechanical E	Engineering			
3- Y	'ear/Level o	f program: Se	cond Year, 19	t semester	-			
4- L	Init hours	Lectures 2 h	rs Tutorial	2hrs Practic	al T	otal 4 hrs		
5- N	lames of led	cturers contrib	outing to the	delivery of the o	course			
			Prof. Dr. Adha	•				
	Course	coordinator P	rof. Dr. Adhar	n ELAlfy				
	Externa	al evaluator		·				
B- Statist	ical Infor	mation						
No.	of students	attending the	e course:	No. 110	100%			
		completing t		No. 104	94.5%			
	sults:	, , , , , , , , , , , , , , , , , , ,		· <u> </u>				
		No.	%		Grading o	f successful st	udents:	
Pa	ssed	100	96.1		· ·		No.	%
Fai	iled	4	3.9		Excellent		13	13%
					Very Good	b	28	28%
					Good		18	18%
					Pass		41	41%
C- Profes	sional Inf	formation						

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Introduction	4	
Fundamentals of surveying	4	
Measurement of areas from maps and measurement of angles	4	
leveling	4	
Computation of volumes	4	
Soil mechanics	4	
Highway and airports engineering	4	
Railway engineering	4	
Environmental engineering	4	
Building construction	4	
Foundations	4	
Building materials	4	
Quantities and specifications	4	
Isolating layers	4	
General revision	4	
Total hours	60	

Topics taught	as a percent	age of the content	specified:			
>90 %	100	70-90 %		<70%		
Reasons in detail for not teaching any topic Non						
If any topics were taught which are not specified, give reasons in detail Non						

2- Teaching and learning	g methods:	
Lectures: Classical Practical training/ la	al lecturing using the white boratory: non	board and data show
Seminar/Workshop: Class activity: exe Researches:	ercises, , quizes, problems	
Other assignments/	homework: weekly	assignments
If teaching and learn	ning methods were used o	other than those specified, list and give reasons:
3- Student assessment:		
Method of assessme	ent	Percentage of total
Final examination Oral examination Practical/laboratory Assignments/class v		60 % 20% % 10%
Mid-Term Exam Total		10 % 100 %
Members of examinati Role of external eva	on committee Prof. Dr. Ac luator	lham ELAlfy Non
4- Facilities and teaching	g materials:	
Totally adequate Adequate to some e Inadequate List any inadequacie		yes Non
5- Administrative constr	aints	
List any difficulties (encountered	
6- Student evaluation of	the course:	Response of course team
7- Comments from exter	nal evaluator(s):	Response of course team
8- Course enhancement	:	
	identified in the previous or not completed and gi	year's action plan: ve reasons for any non-completionNon
9- Action plan for acade	mic year 2010 – 2011	Non
Course coordinator: Date:	Prof. Dr. Adham ELAlfy S 29/8/2010	Signature:

•	_	•		•		
Λ_	ĸз	CIC	Int	nr	ma	tion
_	LO	IJI.		OI.	Ha	LIVII

1-	Title a	and	code:	B200:	Fnglish	Language	(3)
_		ulla	couc.	0200.	LIISIIJII	Lunguage	191

2- Program(s) on which this course is given: Manufacturing Eng. & Production Technology.

3- Year/Level of program: 2nd year / 1st Semester

4- Unit hours Lectures --- Tutorial 2 hrs Total 2 hrs

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

Abdel-Hamid Mohammed El-Khoreby

Course coordinator: Abdel-Hamid Mohammed El-Khoreby

External evaluator Non

B- Statistical Information

No. of students attending the course: No. 722 % 100 No. of students completing the course: No. 672 % 93

Results:

	No. %		Grading of successful students:		:s:
Passed	650	96.73		No.	%
Failed	22	3.27	Excellent	168	25
			Very Good	129	19.19
			Good	125	18.60
			Pacc	228	33 93

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
Isaac Newton	6	
Making a talkie film	6	- eiby
Three Attitudes towards life	6	Abdel -Khore
Plural Nouns	4	Ab I-Kh
Regular & Irregular Verbs	6	Dr. d E
Revision	2	²rof. ⊣ami
Total hours	30	P J

Topics taught as a percentage of the content specified:

Reasons in detail for not teaching any topic Non

If any topics were taught which are not specified, give reasons in detail Non

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory:
Seminar/Workshop:
Non

Class activity: A monthly discussion of what is given in the previous weeks.

Non

Case Study: Non

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

Non

3- Student assessment: Through Quizzes, oral participation in class

mid-term Exams and attendance reports

Method of assessment Percentage of total: 30% Written examination 70 %

Oral examination ---Other assignments/class work 10 %
Mid-Term Exam 20 %

Total 100 %

Members of examination committee Prof. Dr. Abdel-Hamid Mohammed El-Khoreby

Prof. Dr Hassan Awad

Role of external evaluator Non

4- Facilities and teaching materials: Dictionaries, Tape recorders....etc

Totally adequate .Ye
Adequate to some extent
Inadequate

List any inadequacies

Non

5- Administrative constraints

List any difficulties encountered

Non

6- Student evaluation of the course:

List any criticisms Response of course team

Non Non

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

Non Non

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2009 - 2010

Actions required Completion date Person responsible

Non

Course coordinator: Abdel-Hamid Mohammed El-Khoreby

Signature:

Date: Nov.2010

A- Basic Information

- 1- Title and code: Math. III. Ordinary Differential Equations and Advanced Calculus(1), B211
- 2- Program(s) on which this course is given: Basic Science
- **3- Year/Level of program:** 2nd year, (Elect. Mech.) 1st Term
- **4- Unit hours** Lectures 4 hrs Tutorial 2 hrs Practical hr Total 6 hrs
- 5- Names of lecturers contributing to the delivery of the course

Course coordinator Prof. Dr. Osama El Gyar

Prof. Dr. Aly Essawi

External evaluator

B- Statistical Information

% 100 No. of students attending the course: No. 722

No. of students completing the course: No. 637

Results: Electr.

	No. %		Grading of successful students:		
Passed	485	76.1		No.	%
Failed	152	23.9	Excellent	56	8.8
			Very Good	50	7.8
			Good	68	10.7
			Pass	311	48.8

C- Professional Information

1 - Course teaching

Topic	Lecture hours	Tutorial hours	Lecturer
Classification of Differential equations	4	2	
First order Differential Equation	4	2	
Separable and homogeneous Differential equations	4	2	
Exact and linear Equations	4	2	Ē
N th order D.E with constant coefficients	4	2	Gayar
Variation of parameters-Undetermined coefficients	4	2	Ű
Euler's Equation-Reduction of order	4	2	ᇳ
Linear systems of ordinary differential equations	4	2	Ossama
Partial derivatives- directional derivative	6	2	sai
Total derivatives-directional derivative	6	2	õ
Tangent planes and normal lines	4	2	Ör.
Maxima and minima of function of two variables	4	2	Δ
Lagrange's multipliers	4	2	
Series solution of O.D.E.	4	4	
Total hours	60	30	

2012-2013 **Program report**

Top	oics taught as a percentage of	the content specified:		
	>90 %	<70%		
	asons in detail for not teaching			
If a	ny topics were taught which a	re not specified, give reasons in detail		
2- Teac	hing and learning methods:			
Lec	tures: Classical lecturing usi	ng the white board, projectors and data show		
Pra	ctical training/ laborator <u>y:</u>	None		
	ninar/Workshop: None	4		
	Class activity: Numerical exercises; solution of problems			
	Case Study: Selected case studies			
Otr	ner assignments/homework:	Bi-weekly assignments		
If teaching and learning methods were used other than those specified, list and give reasons: None				
3- Stud	ent assessment:			
Me	thod of assessment	Percentage of total		
	itten examination Il examination	70 %		
	ctical/laboratory work	 %		
	ner assignments/class work	10 %		
	Mid-Term Exam			
Tot		100 %		
Me	mbers of examination commi	•		
Pol	e of external evaluator	Prof Dr. Aly M. Essawi None		
		Notic		
4- Facil	ities and teaching materials:			
Tot	ally adequate	Yes		
	equate to some extent	<u></u>		
	dequate	<u></u>		
List	List any inadequacies			
	None			
	inistrative constraints any difficulties encountered None			
6- Stud	ent evaluation of the course:			
0 0000	List any criticisms	Response of course team		
1-	Problems with the teaching assistant in exercises	New teacher assistant will be engaged the next academic year.		
2-	A proposal to extend the subject and lecture it in two successive semesters	The actual content and number of lecturing hours are convenient now, considering the re-determined graduate profile		

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

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None **Action State whether or not completed and give reasons for any None-completion**None

9- Action plan for academic year 2009 - 2010

Actions required Completion date Person responsible

None Prof. Dr. Osama El Gyar

Course coordinator: Prof. Dr. Osama El Gyar

Prof. Dr. Aly M. Essawi

Signature:

Date: Nov.2010

Annual Course Report (Academic Year 2009-2010)

Λ	Rag	CIC	Into	rmation
_	1)(1.	311.	11111	1 1 1 1611 11 71 1

- 1- Title and code: E210: Computer Programming I
- 2- Program(s) on which this course is given: 2nd year Electrical Dept., Mech. Dept.
- 3- Year/Level of program: 2nd year
- 4- Unit hours Lectures 2 hrs Tutorial 0 hrs Practical 2 hr Total 4 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr. Adel Khedr

Course coordinator Prof. Dr. Adel Khedr

External evaluator

B- Statistical Information

No. of students attending the course: No. 110 % ...100.

No. of students completing the course: No. 103 % 93.6

Results:

	No.	%	Grading of successful students:			
Passed	93	90.3	_	No.	%	
Failed	10	9.7	Excellent	6	5.8	
			Very Good	16	15.5	
			,	16	15.5	
			Good	55	53.3	
			Pass			

C- Professional Information

1 - Course teaching

Topic Actually taught	Lecture hours	Practical hours	Lecturer
Steps for solving problems by comp. programs	2		
Program documentation and flow charts	2		
Structured programming and structure charts	6		<u>-</u>
Pascal language program parts	2	2	heri
Input / Output in Pascal	2	4	S I S
Data types and declaration	2	4	Prof. Dr. Adel El Sherif Dr. Adel Khedr
Operators and precedence	2	6	. Ac
Selection constructs in Pascal language	4	2	٦. ٢.
Loops in Pascal language	4	4	rof
Arrays in Pascal language	2	2	
Procedures and Functions in Pascal language	2	2	
Total hours	30	26	

Topics taught as a percentage of the content specified:								
>90 %		70-90 %		<70%				
Reasons in detail for not teaching any topic Shortage of time								
If any topics were taught which are not specified, give reasons in detail Non								

2- Teaching and learning methods:

Lectures: Using white board and computer Practical training/ laboratory: Computer labs

Seminar/Workshop: Non

Class activity: Numerical exercises, computer applications

Case Study: Non

Other assignments/homework: 2 Homework

If teaching and learning methods were used other than those specified, list and give reasons:

Nor

3- Student assessment:

Method of assessment Percentage of total

Written examination 60 %

Oral examination Non

Practical/laboratory work 20 %

Other assignments/class work 10 %

Mid-Term Exam 10 %

Total 100 %

Members of examination committee Dr. Adel Khedr Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered

> Introducing a sound system in computer labs

6- Student evaluation of the course:

List any criticisms Response of course team

1. The theoretical part is to much

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

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 200X - 200Y

Actions required Completion date Person responsible

1. Provide a sound system in computer labs

Course coordinator: Prof. Dr. Adel Kheder

Signature: Prof. Dr Said A.Gawish

Date:

Annual Course Report 2009/2010

Δ- Ι	Kac	ור	Int∩	rmation

- 1- Title and code: (M201) Fluid Mechanics
- 2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
- 3- Year/Level of program: Second Year Man. Eng. & Prod. Tech.
- 4- Unit hours Lectures 4 hrs Tutorial 1 hr Practical 1 hr Total 6 hrs
- 5- Names of lecturers contributing to the delivery of the course

Dr. Abdelmagid A. Abdalla

Course coordinator Dr. Abdelmagid A. Abdalla

External evaluator: None

B- Statistical Information

No. of students attending the course:			No. <u>100</u>	% <u>100</u>		
No. of stude	nts complet	ting the course:	No. 100	% 100		
Results:	No.	%		Grading of succes	sful students:	•
Passed	83	83		-	No.	%
Failed	17	17		Excellent	6	6
				Very Good	9	9
				Good	12	12
				Pass	56	56

C- Professional Information

1 - Course teaching

Tonio Actually tought	No	. of hou	Lecturer	
Topic Actually taught	L	Т	Р	
Introduction Definition of fluids, dimensions and units, fluid properties.	4	2	2	
Fluid statics Pressure at a point, pressure field, pressure measurement, hydrostatic forces acting on plane and curved surfaces, buoyancy, floatation, and stability.	10	2	2	lla
Fluid kinematics Velocity field, acceleration field, Reynolds's transport theorem.	12	2		. Abda
Conservation laws Conservation of mass- continuity equation, conservation of linear momentum.	6	2	2	Dr. Abdelmagid A. Abdalla
Similitude, dimensional analysis, and modeling Dimensional analysis, Buckingham Pi theorem, determination of Pi terms by inspection, Common dimensionless groups in fluid mechanics, modeling and similitude.	12	2	2	Dr. Abde
Viscous Flow in Pipes General characteristics of pipe flow, fully developed laminar flow, fully developed turbulent flow, dimensional analysis of pipe flow.	4	2	4	
Total hours	48	12	12	

l opics tau	ght as	a	percentage of	the con	tent specified:	
>9	0 %		70-90 %	80	<70%	Г.,

Reasons in detail for not teaching any topic The term actually was 12 weeks as during the last three weeks practical exams and revisions were carried out.

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory: Experimental measurements in fluid lab

Seminar/Workshop: None

Class activity: Numerical exercises

Case Study: None

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment Percentage of total

Written examination
Oral examination
---Practical/laboratory work
Other assignments/class work& Quizzes
Mid-Term Exam

60 %
---20 %
10 %

Total 100 %

Members of examination committee Dr. Abdelmagid A. Abdalla Dr. Metwally H. Metwally

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes

.....

Non

5- Administrative constraints

List any difficulties encountered

- > Only two hydraulic benches were working, so, only two experiments were working at the same time.
- > No teaching assistant.

6- Student evaluation of the course:

NO.	List any criticisms	Response of course team			
1	Insufficient exercises hours.	This insufficiency is due to the determined exercise hours of			
	the course. During lecture hours, it will be considered, the				
		increase of the solved examples.			
2	No teaching assistant	Next year there will be a teaching assistant			

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

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

> The numbers of solved examples have been increased during lecture periods.

> A teaching assistant will be available next year.

➤ A hydraulic bench has been manufactured and tested through student's projects. Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2010 - 2011

NO.	Actions required	Completion date	Person responsible
1	Increase the number of solved examples	Sept 2010	Dr. Abdelmagid A.
	during the lecture		Abdalla
2	A hydraulic bench is added to the lab	Sept 2010	
3	A teaching assistant will be available next year	Sept 2010	

Course coordinator: Dr. Abdelmagid A. Abdalla

Signature:

Date: 17/10/2010

Annual Course Report 2009/2010

A- Basic Information

1-	Title	and	code:	(M250)	Engineer	ing Skills	ı
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2- Program(s) on which this course is given: *Manufacturing Engineering & Production Tech.*

3-	Year/Lev	el of n	rogram:	I nd	Year	Mechai	nicai

4- Unit hours Lectures 2 hrs Tutorial 4 hrs Practical - Total 6 hrs

5- Names of lecturers contributing to the delivery of the course *Prof. Dr. Mamdouh Saber Elsayed*

Or

Course coordinator External evaluator: None

B- Statistical Information

No. of students attending the course: No. 112 % 100

No. of students completing the course: No. 92 % 82.14

Results:

	No.	%	% Grading of successful students:			
Passed	75	81.5	_	No.	%	
Failed	17	18.5	Excellent	4	4.35	
			Very Good	4	4.35	
			Good	13	14.1	
			Pass	54	58.7	

C- Professional Information

1 - Course teaching

Topic Actually taught		of hou	ırs	Lecturer
Topic Actually laught	L	Т	Р	Lecturei
Engineering Materials	2	4		
Limits &Fits	2	4		
Machining Marks	2	4		ъ
Assembly Drawings	2	4		say
Mechanical Joints	2	4		Ĕ
Threaded Joints	2	4		per
Locking of Threaded Joints	2	4		Prof. Dr. Mamdouh Saber Elsayed
Vices Clamps (Ass.& Det . drw)	2	4		lout
Lathe Tool Pos	2	4		amc
Key Joints	2	4		Ž.
Pin joints	2	4		Ţ.
Couplings (Ass.&Det . drw)	2	4		Pro
Pulley Assembly	2	4		
Belt Tightener	2	4		
Total hours	30	60		

Topics taught a	s a perc	entage of the content sp	ecified:		
>90 %	100	70-90 %		<70%	
Reasons in detail for not teaching any topic:					

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using white board and OHP

Practical training/ laboratory: Teaching aids and life components and assembly

Seminar/Workshop: None

Class activity: Weekly exercise of assembly and details drawing; Quizes

Case Study: Selected case studies

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Method of assessment Percentage of total

Written examination 70 %

Oral examination ---
Practical/laboratory work

Other assignments/class work & activities 20 %

Mid-Term Exam 10 %

Total 100 %

Members of examination committee Prof. Dr. Mamdouh Saber

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes

.....

Non

5- Administrative constraints

List any difficulties encountered

1- Limitation of number of data show in the principal building

6- Student evaluation of the course:

List any criticisms Response of course team

Non

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

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2010 - 2011

Actions required Completion date Person responsible

New solving problems More teaching aids

Course coordinator: Prof . Dr. Mamdouh Saber

Signature:

Date: 9/2010

Annual Course Report 2009 - 2010

A- Basic Information

1-	Title and code:	M 251:	Mechanics	of	f Machines ((1)
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2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology

3- Year/Level of program: third year

4- Unit hours Lectures 2 hrs Tutorial 2hrs Practical - Total 4 hrs

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

Prof. Dr. Ahmed Sarhan

Course coordinator Prof. Dr. Ahmed Sarhan

External evaluator Non

B- Statistical Information

No. of students attending the course:	No.	112	% 100 % 92
No. of students completing the course:	No.	103	% 92

Results:

	No.	%	Grading of successful students:		
Passed	92	89.3		No.	%
Failed	11	10.7	Excellent	10	9.7
			Very Good	14	13.6
			Good	12	11.7
			Pass	56	54.4

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Moment of inertia	8	
System of particles	24	
Kinematics of rigid bodies	10	.
Plane motion of rigid bodies: force & acceleration	24	Prof. Sarhan
Plane motion of rigid bodies: Energy & momentum	26	Jaillali
• Cams	8	
Total hours	60	

	Total hours	60					
Topics taught as a percentage of the content specified: >90 % 100 70-90 %							
	If any topics were taught which are not specified, give reasons in detail Non						
2- Teaching and learning methods:							
Lectures:	Classical lecturing using the white board						
Practical training/ laboratory: No							
Seminar/Workshop: Non							

Class activity: Numerical exercises;

Case Study: Selected case studies

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give

reasons: Non

3- Student assessment:

Method of assessment Percentage of total

Written examination 70%
Oral examination ---Practical/laboratory work ---Other assignments/class work 10%
Mid-Term Exam 20%
Total 100 %

Members of examination committee Dr. Ahmed Sarhan

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes

.....

Non

5- Administrative constraints

List any difficulties encountered

> no

6- Student evaluation of the course:

List any criticisms Response of course team

1. More time is requested More problems will be given

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

Non

8- Course enhancement:

Progress on actions identified in the previous year's action plan: yes

Action State whether or not completed and give reasons for any non-completion

Non

9- Action plan for academic year 2009 - 2010

Actions required Completion date Person responsible

Course coordinator: Prof. Dr Ahmed Sarhan

Signature:

Date: 25/10/2010

Annual Course Report Academic year 2009-2010

A- Basic Information

- **1- Title and code:** (M261) Strength of Material
- 2- Program(s) on which this course is given: Manufacturing Eng. and Production Yechnology.
- 3- Year/Level of program: Second Year/First Semester
- **4- Unit hours** Lectures 2 hrs Practical 2 hr Total 4 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr. Ahmed El-Sanabary

Course coordinator Prof. Dr. Ahmed El-Sanabary

External evaluator

B- Statistical Information

No. of students attending the course: No. 101 % 100 No. of students completing the course: No. 101 % 100

Results:

	No.	%	Grading of succes	ccessful students:		
Passed	78	77.23		No.	%	
Failed	23	22.77	Excellent	2	1.98	
			Very Good	5	4.95	
			Good	10	9.9	
			Pass	61	60.4	

C- Professional Information

1 - Course teaching

	Topic		Practical	Lecturer
		hours	Hours	
1	Simple Trusses	2	2	
2	Stress and strain	2	2	
3	Tensile test	2	2	
4	Thin wall Pressure Vessel	2	2	>
5	Torsion of circular shafts	2	2	ELSanabary
6	Springs Stresses	2	2	ane
7	Temperature stresses	2	2	ELS
8	Strain energy due to stresses	2	2	
9	Shear & Bending Moment Diagrams	2	2	Dr. Ahmed
10	Shear & Bending Moment Diagrams	2	2	A
11	Centroid &Second moment of area	2	2	. Dr
12	Shear & Bending stresses	2	2	Prof.
13	Compound stress	2	2	۵
14	Deflection of beams	2	2	
15	Testing of Materials	2	2	
Tota	l hours	30	30	

Topics taught as a percentage of the	e content specified:			
> 90 % 100 7 0	O-90 %			
Reasons in detail for not teaching a	ny topicNon			
If any topics were taught which are	not specified, give reasons in detail Non			
2- Teaching and learning methods:				
Lectures: Classical lecturing using	the white board & Computer supported learning			
Practical training/ laboratory:	Practical training and experimental measurements in Lab			
Seminar/Workshop: Non				
Class activity: Numerical exercises;				
Case Study: Selected case stu	ıdies			
Other assignments/homework:	Bi-weekly assignments			
If teaching and learning methods were used other than those specified, list and give reasons: Non				
3- Student assessment:				
Method of assessment	Percentage of total			
Written examination	66.7 %			
Oral examination				
Practical/laboratory work	<u>13.3 %</u>			
Other assignments/class work	10 %			
Mid-Term Exam	10 %			
Total	100 %			
Members of examination committe	e Dr. Bakkar El-Sarnagawy			
Role of external evaluator	Non			
4- Facilities and teaching materials:				
Totally adequate	Yes			
Adequate to some extent	<u></u>			
Inadequate				
List any inadequacies: Non	_			
5- Administrative constraints				
List any difficulties encountered Non				
6- Student evaluation of the course:				
List any criticisms	Response of course team			
(a) Non	•			
7- Comments from external evaluator(s): Response of course team			
Non	Non			

A^Ψ Program report 2012-2013

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required Planned Completion date Accomplishment

Non Non Non

Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2009 – 2010

Actions required Completion date Person responsible

Non Non Non

Course coordinator: Prof. Dr Ahmed El-Sanabary

Signature:

Date: 1/10/2010

Annual Course Report (Academic Year 2009-2010)

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Δ_	Raci	r Int	0rm	ation

- 1- Title and code: History of Science & Technology, B202
- 2- Program(s) on which this course is given: Com. Eng. & Inf. Tech. Dept.

 ${\bf Electronic\ Eng\ \&\ Comm.\ Tech.\ Dept.}$

Man. Eng. & Prod. Tech. Dept

- 3- Year/Level of program:2nd year, Second Semester
- **4- Unit hours** Lectures 2hrs Tutorial Practical Total 2 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr.: Shaban Ragab Gouda

Course coordinator Prof. Dr.: Shaban Ragab Gouda

External evaluator Non

B- Statistical Information

No. of students attending the course: No. 722 % 100%

No. of students completing the course: No. 661 %

Results:

	No. % Grading of successfu			sful student	ul students:		
Passed	655	99.09		No.	%		
Failed	6	0.91	Excellent	246	37.2		
			Very Good	162	24.51		
			Good	117	17.70		
			Pass	130	19 67		

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
 * العلم والهندسه والتكنولوجيا 	2	
 * الهندسه والبحث العلمي – منظومه البحث العلمي 	4	
 * عناصر ومتطلبات البحث العلمي 	2	G.
 * الهندسه و خريطه البحث العلمي – مراحل البحث العلمي 	2	Gouda
 * تاريخ الهندسه والتكنولوجيا في مختلف العصور 	4	9
 * نقل النكنولوجيا 	2	<u>ج</u>
* نشاطات العمل الهندسي ومسئوليه المهندس	2	r. S.
* التعليم الهندسي	2	
 * نقابه المهندسين المصريه – جمعيه المهندسين المصريه 	4	Prof. Dr.
 * تطور اوجه النشاط الهندسي والتكنولوجي 	4	ш.
* اشهر علماء الهندسه والتكنولوجيا	2	
Total hours	30	

Topics taught as a percentage of the content specified:					
>90 %	100	70-90 %	-	<70%	_

Reasons in detail for not teaching any topic . Non

If any topics were taught which are not specified, give reasons in detail

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board, projectors and Data show

None

Practical training/ laboratory: None Seminar/Workshop: None Class activity: None Case Study: None Other assignments/homework: None If teaching and learning methods were used other than those specified, list and give reasons: 3- Student assessment: Method of assessment Percentage of total Written examination 70 % **Oral examination** None **Practical/laboratory work** None 10% Other assignments/class work **Mid-Term Exam** 20 % **Total** 100 % Members of examination committee Prof. Dr. S. R. Gouda Role of external evaluator None 4- Facilities and teaching materials: **Totally adequate** Adequate to some extent Inadequate List any inadequacies Non 5- Administrative constraints List any difficulties encountered None 6- Student evaluation of the course: List any criticisms Response of course team None None

7- Comments from external evaluator(s):

uator(s): Response of course team

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion

9- Action plan for academic year 2009 – 2010

Actions required Completion date Person responsible

Non Non

Course coordinator: Prof. Dr. S. R. Gouda

Signature: Date: Nov.2010

Annual Course Report (Academic Year 2009-2010)

A- Basic Information

- 1- Title and code: Math. IV, Laplace Transform and Advanced Calculus (2), B212
- 2- Program(s) on which this course is given: Basic Science
- **3- Year/Level of program:** 2nd year, (Elect, Mech.) 2nd Term
- 4- Unit hours Lectures 4 hrs Tutorial 2 hrs Practical hr Total 6 hrs
- 5- Names of lecturers contributing to the delivery of the course

Course coordinator Prof. Dr. Osama El Gyar Prof. Dr. Aly Essawi

External evaluator

B- Statistical Information

No. of students attending the course: No. 722 % 100 No. of students completing the course: No. 604

Results: Electr.

No. %			Grading of successful students:		
Passed	437	72.4		No.	%
Failed	167	27.6	Excellent	51	8.4
			Very Good	34	5.6
			Good	71	11.8
			Pass	281	46.5

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
Laplace transform	6	
First shift property-Second shift property	6	
Differentiation of Laplace transform	6	
Integration of laplace transform	6	
Solving D.E using laplace transform	6	/ar i
Laplace transform of the derivative	6	Prof. Dr. Osama El Gyar Prof. Dr. Aly Essawi
Laplace transform of the Integral	6	ia E Ess
The Gamma and Beta function	6	sam Aly
Line integral and application	6	. o. Dr.
Double integral and application	6	. Dr
Multiple integral and application	6	rof. Pr
Surface and volume Integral	6	Ь
Legendre and Bessel functions	6	
Cylindrical and spherical polar coordinates	6	
Final Revison	6	
Total hours	90	

Topics	taught as a	percentage	of the	content	specified:
OPICS	tuugiit us u	percentage	OI CIIC	COLLECTIO	specifica.

>90 % 🚺 70-90 % 🔲 <70% ...

Reasons in detail for not teaching any topic
If any topics were taught which are not specified, give reasons in detail

2- Teach	ing and	learning	methods
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Lectures: Classical lecturing using the white board, projectors and data show

Practical training/ laboratory: None

Seminar/Workshop: None

Class activity: Numerical exercises; solution of problems

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment Percentage of total

Written examination 70 %

Oral examination ---
Practical/laboratory work 9

Other assignments/class work 10 %

Mid-Term Exam 200

Total 100 %

Members of examination committee Prof. Dr. Osama El Gyar

Prof Dr. Aly M. Essawi

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

Ye

....

List any inadequacies

None

5- Administrative constraints

List any difficulties encountered

None

6- Student evaluation of the course:

List any criticisms Response of course team

1. Problems with the teaching New teacher assistant will be engaged the next academic assistant in exercises year.

2. A proposal to extend the subject and lecture it in two successive semesters

The actual content and number of lecturing hours are convenient now, considering the re-determined graduate profile

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

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None **Action State whether or not completed and give reasons for any None-completion**None

9- Action plan for academic year 2009 – 2010

Actions required Completion date
None

Prof. Dr. Osama El Gyar

Person responsible

Course coordinator: Prof. Dr. Osama El Gyar

Prof. Dr. Aly M. Essawi

Signature:

Date: Nov. 2010

Annual Course Report 2009/2010

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Λ-	ഥവാ		11 11 ()	HIII	ислі

- 1- Title and code: (E213) Computer Programming II
- 2- Program(s) on which this course is given: 2nd year Electrical Dept., Mech. Dept.
- 3- Year/Level of program: 2nd year
- Lectures 2 hrs Tutorial 0 hrs Practical 2 hr Total 4 hrs 4- Unit hours
- 5- Names of lecturers contributing to the delivery of the course

Course coordinator Prof. Dr. Adel kuder

External evaluator

B- Statistical Information

No. of students attending the course: No. 110 No. of students completing the course:

Results:

			Grading of successful studer		
Passed			_	No.	%
Failed	Failed 4 4.1	Excellent	10	10.3	
			Very Good	14	14.4
			Good	13	13.4
			Pass	56	57.7

C- Professional Information

1 - Course teaching

Topics Actually Taught	Lecture	Practical	Lecturer
Topics Actually Taught	hours	hours	
 Concepts of structured programming 	2		
Program structure in C++	2		
 Data types and declaration in C++ 	2		
 Input / Output in C++ and i/o stream class 	2	4	
I/O manipulation	2	4	
Operators and precedence in C++	6	4	sh h
Decision (selection) constructs in C++	4	2	awi
Loops in C++	4	4	d G Ga
Arrays in C++	2	2	Said Gawish
Functions in C++	2	2	Dr. S
Calling functions (by value, by reference)	2	4	Prof. Dr. Prof.Dr S
Total hours	30	26	

>90 Reasons in	ht as a percentage of the second seco	70-90 % ing any topic	Shortage of tim		
, ,	learning methods:	•	neu, give reaso	iis iii detaiiiv	NOI1
Lectures:	Using white board a	and computer			

Practical training/ laboratory: Computer labs

Seminar/Workshop: Non

Class activity: Numerical exercises, computer applications

Case Study: Non

Other assignments/homework: 2 Homework

If teaching and learning methods were used other than those specified, list and give reasons:

Non

3- Student assessment:

Method of assessment Percentage of total

Written examination 60 %

Oral examination Non

Practical/laboratory work 20 %

Other assignments/class work 10 %

Mid-Term Exam 10 %

Total 100 %

Members of examination committee Dr. Said A. Gawish Dr. Adel Khedr

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate
Adequate to some extent
Inadequate

Yes
.....

List any inadequacies

5- Administrative constraints

List any difficulties encountered

Introducing a sound system in computer labs

6- Student evaluation of the course:

List any criticisms Response of course team

1. The theoretical part is to much

2. The student must learn how to read, this is done in second year

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

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 200X - 200Y

Actions required Completion date Person responsible

1. Provide a sound system in computer labs

Course coordinator: Prof. Dr. Adel kuder

Signature: Prof. Dr Said A.Gawish

Date:

Annual Course Report 2009/2010

A- Basic Information

- 1- Title and code: (M222) Thermodynamics
- 2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
- **3- Year/Level of program:** Second Year Man. Eng. & Prod. Tech.
- 4- Unit hours Lectures 4 hrs Tutorial 1 hrs Practical 1 hrs Total 6 hrs
- 5- Names of lecturers contributing to the delivery of the course

Dr. Abdelmagid A. Abdalla,

Course coordinator Dr. Abdelmagid A. Abdalla

External evaluator: None

B- Statistical Information

No. of students attending the course: No. 99 % 100
No. of students completing the course: No. 99 % 100
Results:

	No. % Grading of successful stu			sful student	ts:
Passed	89	89.9		No.	%
Failed	10	10.1	Excellent	11	11.1
			Very Good	12	12.1
			Good	9	9.1
			Pass	57	57.6

C- Professional Information

1 - Course teaching

Tauta Astrollista colta		of ho	Lecturer	
Topic Actually taught	L	Т	Р	
Introduction Importance of thermodynamics, some applications Mechanisms of heat transfer.	4	-	-	
 Concepts and definitions System, boundary, surroundings. Closed, open, and isolated systems. Kinetic, potential, and internal energy. State of a system, process, cycle, reversible, and irreversible processes, and thermodynamic work. 	12	4	2	Or. Abdelmagid A. Abdalla,
 Properties of a pure substance Definition, phase diagram of water (p-v), (T-v), Tables of steam. Equation of state, and compressibility factor, specific heats (C_P & C_V). 			2	Dr. Abdelmag
• First law of thermodynamics Statement of the first law for cycle & process. Different forms for a control mass & control volume. Special cases (SSSF, USUF). Enthalpy	12	4	2	

 Second law of thermodynamics 	8	2	2				
Heat engine and heat pump, Kelvin–Plank and Clausius							
statements. Reversibility and factors affecting it, Carnot cycle							
and its efficiency, Thermodynamic temperature scales.							
	4	2	2				
• Entropy	4						
Definition, Clausius inequality, entropy of a pure substance,							
entropy change in a process.	F2	16	10				
Total hours	52	16	10				
Topics taught as a percentage of the content specified:							
>90 % 70-90 % 87 <70%							
Reasons in detail for not teaching any topic The term actually was 13	week	s as d	uring 1	the last			
two weeks practical exams and revisions were carried out.							
If any topics were taught which are not specified, give reasons in det	ail	Non	e				
• Total Control of the control of							
2- Teaching and learning methods:							
Lectures: Classical lecturing using the white board							
Practical training/ laboratory: Experimental measurements in La	ab						
Seminar/Workshop: None							
Class activity: Numerical exercises							
Case Study: None							
Other assignments/homework: Bi-weekly assignments							
If teaching and learning methods were used other than those spec	ifiad	lict o	مط هند	o rosconci			
None	illeu,	iist ai	iu giv	e reasons.			
None							
3- Student assessment:							
Method of assessment Percenta	ge of	total					
-	0 %						
-	0 %						
The state of the s	10 %						
	0 %						
Total 1	00 %						
Members of examination committee Dr. Abdelmagid A. A	Abdall	a					
Dr. Metwally H. Metwally							
Role of external evaluator None							
4 Facilities and to add a subject to the							
4- Facilities and teaching materials:							

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

None

5- Administrative constraints

List any difficulties encountered

> Inadequate budget for securing the consumables of the thermodynamics laboratory.

6- Student evaluation of the course:

NO.	List any criticisms	Response of course team
1	Encouragement of student to	This will be considered in the academic year
	prepare reports about general	2010/2011.
	topics in the subject	
2	Time table for office hours.	Although all the free periods are considered as office
		hours, but this criticism will be considered in the
		academic year 2010/2011.

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

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan (2009/2010):

- ➤ The numbers of solved examples during the lecture have been increased.
- > Consumable items in the lab as capillary tubes, heaters, etc have been supplied.

Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2010-2011

	Actions required	Completion date	Person responsible
1-	Encouragement of student to	Feb 2011	Dr. Abdelmagid
	prepare reports about general topics		
	in the subject		
2-	Time table for office hours.	Oct 2010	Dr. Abdelmagid

Course coordinator: Dr. Abdelmagid A. Abdalla

Signature:

Date: 17/10/2010

Annual Course Report Academic Year 2009-2010

A- Basic Information

- 1- Title and code: (M252) Mechanics of Machines
- 2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
- **3- Year/Level of program:** second Year, 2nd Semester
- **4- Unit hours** Leures 2 hrs Tutorial 2 hrs Practical 0 hr Total 4 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr. Gaafar A. Hussein

Course coordinator Prof. Dr. Gaafar A. Hussein

External evaluator: None

B- Statistical Information

No. of students attending the course: No. 112 % 100 No. of students completing the course: No. 99 % 88.4

Results:

	No.	%	Grading of success	Grading of successful students:			
Passed	95	95.96		No.	%		
Failed	4	4.04	Excellent	19	19.2		
			Very Good	19	19.2		
			Good	20	20.2		
			Pass	37	37.4		

C- Professional Information

1 - Course teaching

Case Study:

Topic Actually taught	No. of hours	Lecturer
Kinematics of motion	8	_
Velocity in mechanisms	8	aafar in
Gears and gear trains	20	. Ga ssei
Gyroscopic couple and processional motion	12	J H
Inertia forces in reciprocating parts	8	rof. A.
Total hours	56	P

lotal nours	56					
Topics taught as a percentage of the content specified: >90 % 100 70-90 %						
If any topics were taught which are not specified, give reasons in detail None						
2- Teaching and learning methods:						
Lectures: Classical lecturing using the white board and computer s	upported learnin	g				
Practical training/ laboratory: None						
Seminar/Workshop: None						
Class activity: Numerical exercises; solution of problems,						
Demonstrations by data show.						

Program report 2012-2013

Selected case studies

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give

reasons: None

3- Student assessment:

Method of assessment Percentage of total

Written examination 70%
Oral examination ---Practical/laboratory work 0 %
Other assignments/class work 15 %
Mid-Term Exam 15 %

Total 100 %

Members of examination committee Dr. Gaafar A. Hussein Dr. Abdelmegeed abdella

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent
Inadequate

Yes

List any inadequacies None

5- Administrative constraints

List any difficulties encountered

> Limitation of number of data show in the principal building

Limitation of number of operating experiments in the laboratory

6- Student evaluation of the course:

List any criticisms Response of course team

A proposal to extend the subject in two successive convenient now, considering the pre-determined graduate profile

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

None None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2010 – 2011

Actions required Completion date Person responsible
None None None

Course coordinator: Prof. Dr Gaafar A. Hussein

Signature:

Date: 1/8/2010

35

44

Annual Course Report 2009/2010

ΛΙ	2 2	cic	Info	rm	ation

A- Basic Inform	ation					
2- Program(3- Year/Levo 4- Unit hour	s) on which el of prograr s Lecture	m: 2 nd Year Mecha s 2 hrs Tutoria ontributing to the	ve n : <i>Manufactu</i> <i>anical</i> I <mark>4 hrs Prac</mark>		_	
	urse coordina					
Ext	ernal evaluat	or: None				
B- Statistical Inf	ormation					
No. of stude	ents attendir	ng the course:	No. 112	% 100		
		ting the course:	No. 80	% 71.5		
	No.	%		Grading of succes	sful students	S:
Passed	63	79		Ü	No.	%
Failed	17	21		Excellent	6	7.5
				Very Good	15	18.75
				Good	7	8.75

Pass

C- Professional Information

1 - Course teaching

Topic Actually taught		of hou	Lecturer	
		Т	Р	Lecturei
Engineering Materials	2		4	
Limits &Fits	2		4	
Machining Marks	2		4	pa
Assembly Drawings	2		4	say
Mechanical Joints	2		4	Ë
Threaded Joints	2		4	ber
Locking of Threaded Joints	2		4	Prof. Dr. Mamdouh Saber Elsayed
Vices Clamps (Ass.& Det . drw)	2		4	lout
Lathe Tool Pos	2		4	amc
Key Joints	2		4	Ĭ.
Pin joints	2		4	f. Dr
Couplings (Ass.&Det . drw)	2		4	Proj
Pulley Assembly	2		4	
Belt Tightener	2		4	
Total hours	28		56	

To	pics taught as	a percentage of	the content s	pecified:	-	
	>90 %	100	70-90 %		<70%	
Re	easons in detai	il for not teaching	any topic:			

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using white board and OHP

Practical training/ laboratory: Teaching aids and life components

Seminar/Workshop: None

Class activity: Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment Percentage of total

Written examination
Oral examination
Practical/laboratory work
Other assignments/class work & activities

Mid-Term Exam

Total
Members of examination committee

Prof . Dr. Mamdouh Saber

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate
Adequate to some extent

Inadequate

List any inadequacies

Yes Non

5- Administrative constraints

List any difficulties encountered

Limitation of number of data show in the principal building

6- Student evaluation of the course:

List any criticisms Response of course team

(Eng – Skills (1) & (2) in one final exam.

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

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2010 - 2011

Actions required Completion date Person responsible

New solving problems More teaching aids

Course coordinator: Prof. Dr. Mamdouh Saber

Signature:

Date: 9/2010

Annual Course Report 2009/2010

A- Basic Information

1- Title and code: (M262) Material Technology I

2- Program(s) on which this course is given: Production Engineering and manufacturing Technology BSc Program

3- Year/Level of program: Second Year/Second Semester

4- Teaching hours

Total 4 hrs Lectures 2 hrs Tutorial 1 hrs Practical 1 hr 5- Names of lecturers contributing to the delivery of the course: Prof. Dr. Bakkar Elsarngawy

6- Course coordinator: Prof. Dr. Bakkar Elsarngawy

7- External evaluator: Non

B- Statistical Information

1- No. of students attending the course: 100 No. 110 % 2- No. of students completing the course: 100 90.9 % No.

3- Results:

	No.	%
Passed	95	95
Failed	5	5

Grading of successful students:					
Grade No. %					
Excellent	23	24.2			
Very Good	19	20.0			
Good	20	20.0			
Pass	33	21.1			

C- Professional Information

1 - Course teaching

Topic	Tota	l hours		Lecturer
Торіс	Plan.	Actual		
Crystal Structure of Metals	2		2	
Miller's indices	2	2		
Solidification of Metals	2		2	
Binary Equilibrium Diagrams	2	2		
Iron-Carbon system	2		2	oro
Steels and microstructure	2	2		. ·· D
Cast iron and microstructure	2		2	Prof. Dr. Bakkar Elsarngawy
Heat treatment of steels	2	2		ak k
Copper and its alloys	2		2	er E
Alluminum and its alloys	2	2		ilsa
Strengthening Mechanisms	2		2	rnga
Lead and tin alloys (Babbits)	2	2		wy
Polymers and uses	2		2	
• Ceramics and composite materials 2 2				
Revision	2	1	1	
Total hours	30	15	15	

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70% Reasons in detail for not teaching any topic: Non

If any topics were taught which are not specified, give reasons in detail:

99 2012-2013 **Program report**

Modern Academy for Engineering & Technology Manufacturing Engineering & Production Technology Dept.

2012-2013

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a4	b1 to b5	c1 to c3	d1 to d3

2- Teaching and learning methods:

Lectures: Lecture, discussions, tutorials, problem solving

Practical training/ laboratory: Practical Training and experimental measurements in Lab

Seminar/Workshop: Non

Class activity Numerical exercises; solution of problems by computer and data show.

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments and reports

If teaching and learning methods were used other than those specified, give reasons:

Non

3- Student assessment:

Method of assessment	Points	%
Written examination	60	66.7
Oral examination	Non	Non
Practical/laboratory work	20	13.3
Other assignments/class work	10	10
Mid-Term Exam	10	10
Total	100	100

Members of examination committee: Dr. M. Bakkar Elsarngawy and Dr. -----

Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies:

5- Administrative constraints (List any difficulties encountered)

➤ Non

6- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	Non	

Non

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	

8- Written Exam Evaluation

➤ Non

9- Course enhancement:

Progress on actions identified in the previous year's action plan. State whether or not completed and give reaso for any non-completion:

Actions required	Planned Completion date	Accomplishment
(a) Non		

9- Action plan for academic year 2010 - 2011

Actions required	Completion date	Person responsible
1. Non	Non	Prof. Dr. Bakkar
		Elsarngawy

Course coordinator: Prof. Dr Bakkar Elsarngawy

Signature:

Date: November, 2010

Annual Course Report 2009/2010

A- Basic Information

1- Title and code: M271: Principles of Manufacturing

2- Program(s) on which this course is given: Manufacture

3- Year/Level of program: 2nd year Manufacturing Technology / 2nd term
4- Unit hours Lectures 2 hrs Tutorial 2hrs Practical 0 hrs Total

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

Prof. Dr. M. Merdan

Course coordinator: Prof. Dr. M. Merdan

External evaluator: None

B- Statistical Information

No. of students attending the course: 112 No. of students completing the course: 98

Results:

No. %			Grading of success	ful stude	ents:
Passed	80	81.63		No.	%
Failed	18	18.37	Excellent	2	2.00
			Very Good	7	7.10
			Good	5	5.10
			Pass	66	67.30

1 - Course teaching

Topic	Lecture hours	Tutorial hours	Practica I hours	lecturer
Introduction; Definition of technology, production system, manufacturing processes and elements of machining system	2	2		
Machining Deviations; reasons, types, dimensional deviation and ISO system of tolerances, definitions and denotations of geometric deviations, standardization and measurement of surface roughness.	6	6		1. Merdan
Concepts of machining operations; Turning, Drilling and boring, Accurate holes, Milling, Shaping, and Grinding. Concepts include; definition and main and secondary motions, tools and workpiece clamping, machine tool used, performed operations and associated tools and conditions, attainable accuracy and surface finish.	20	20		Prof. Dr. M. Merdan
General final revision	2	2		
Total	30	30		

•	Topics taught as a percentage of the content specified:			
	>90 % 100	70-90 %	<70%	

- Reasons in detail for not teaching any topic
- If any topics were taught which are not specified, give reasons in detail

2- Teaching and learning methods:

•	Lectures:	Classical lecturing using the white board

Practical training/ laboratory: Yes

1.1 2012-2013 **Program report**

Seminar/Workshop: None

Class activity: Solution of problems

Case Study: None

Other assignments/homework: Assignment report each 4 weeks

If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment:

Method of assessment

Written examination

Oral examination

Practical/laboratory work

Other assignments/class work

Mid-Term Exam

Total

Prof. Dr. M. Merdan

Percentage of total

70 %

None

Members of examination committee Role of external evaluator

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

List any criticisms Response of course team

None manufacturing technology (2) has been adjusted according to the last year required

modifications

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

None None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: the course is modified as stated, and the above mentioned inadequate topics are shifted to the manufacturing technology (2) of the 3rd year.

Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2008 – 2009

Actions required Completion date Person responsible

Course modification in coordination with 2009 / 2010 Dr. M. Merdan manufacturing technology II Dr. A. Kohail

Course coordinator: Prof. Dr. M. Merdan

Signature: M. Merdan Date: 23/10/2010

3rd year Manufacturing Eng. & Production Tech.

NO.	Code	Course	
1	B300	English Lang IV	
2	B311	Mathematics V	
3	E030	Electrical & Electronic Circuits	
4	M310a	Computer Applications I	
5	M331	Thermo-Fluid Machinery	
6	M351	Mechanics of Machines III	
7	M360	Industrial Psychology	
8	M363	Manufacturing Technology I	
9	E050	Electrical Power Systems	
10	M310b	Computer Applications II	
11	M312	Industrial Management	
12	M352	Measuring Instruments & Instrumentation	
13	M364	Manufacturing Technology II	
14	M371	Machine Design I	
15	M399	Project1	

Annual Course Report (Academic Year 2010-2011)

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1-	Title	and	code:	B300:	English	Language	ΊV	١
	1111	ana	couc.	D 300.	LIIGIIJII	Language	(i v	

2- Program(s) on which this course is given: Information systems & Production Engineering

3- Year/Level of program: 3rd year / 1st Semester

4- Unit hours Lectures --- Tutorial 2 hrs Total 2 hrs

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

Abdel-Hamid Mohammed El-Khoreby

Course coordinator: Abdel-Hamid Mohammed El-Khoreby

External evaluator Non

B- Statistical Information

No. of students attending the course: No. 556 % 100 No. of students completing the course: No. 535

Results:

	No.	%	Grading of succes	sful student	s:
Passed	461	86.17		No.	%
Failed	74	13.83	Excellent	42	7.9
			Very Good	80	14.95
			Good	88	16.44
			Pass	251	46.92

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer		
• Murder	10	1		
A false Charge	2	del '-		
• Interviewing Preparation	10	Aboring E		
Writing a C.V / Resumé	4	Dr. A amid horei		
• Revision	4	of. H		
Total hours	30	Pr		

Topics taught as a percentage of the content specified:

Reasons in detail for not teaching any topic Non

If any topics were taught which are not specified, give reasons in detail Non

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory:
Seminar/Workshop:
Non

Class activity: A monthly discussion of what is given in the previous weeks.

Non

Case Study: Non

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment: Through Quizzes, oral participation in class

mid term Exams and attendance reports

Method of assessment Percentage of total: 30%

Written examination 70 %

Oral examination ---Other assignments/class work 10 %

Mid-Term Exam 20 %
Total 100 9

Members of examination committee Prof. Dr. Abdel-Hamid Mohammed El-Khoreby

Prof. Dr Hassan Awad

Role of external evaluator Non

4- Facilities and teaching materials: Dictionaries, Tape recorders....etc

Totally adequate .Yes. Adequate to some extent

Inadequate
List any inadequacies Non

5- Administrative constraints

List any difficulties encountered

Non

6- Student evaluation of the course: Response of course team

List any criticisms

Non Non

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

Non Non

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2010-2011

Actions required Completion date Person responsible

Non

Course coordinator: Abdel-Hamid Mohammed El-Khoreby

Signature:

Date: Nov.2011

Annual Course Report 2010-2011

A- Basic Information

- 1- Title and code: Math. V`, Complex Analysis, Partial Differential Equations, B311
- 2- Program(s) on which this course is given: Basic Science
- **3- Year/Level of program:** 3rd year, 1st Term, Mech.
- 4- Unit hours Lectures 2 hrs Tutorial 2 hrs Practical hr Total 4 hrs
- 5- Names of lecturers contributing to the delivery of the course

Course coordinator Prof. Dr. Osama El Gyar

Prof. Dr. Aly Essawi

External evaluator

B- Statistical Information

No. of students attending the course: No. 98 % 100

No. of students completing the course: No. 93

Results: Mech.

	No.	%	Grading of succes	sful student	is:
Passed	78	83.9		No.	%
Failed	15	16.1	Excellent	9	9.7
			Very Good	9	9.7
			Good	13	14
			Pass	47	50.5

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
Complex numbers	2	
Cauchy, Riemann, theorem	3	
Analytic functions	4	
Conformal mapping	4	
Integration of complex functions	6	
Taylor series	2	
Laurent series	2	
Residues, poles	4	
Integration by reside theorem, application	3	
Definition of P.D.E , solution	4	
Classification and types	2	
Solution of linear P.D.E with constant clefts.	4	
CaNoneical and standard forms	4	
Solutions of bawdry value problems	4	
Heat flaw and steady state heat distribution	4	
Vibration of astringe	4	
Vibration of membrance	4	
Total hours	60	

Topics taught as a percentage of the o	content specified:
>90 % √ 70-90 %	<70%
Reasons in detail for not teaching any	topic
If any topics were taught which are no	ot specified, give reasons in detail
2- Teaching and learning methods:	
Lectures: Classical lecturing using th	e white board, projectors and data show
Practical training/ laboratory:	one
Seminar/Workshop:	one
Class activity: Numerical exercises; sol	·
Case Study: Selected case studi	es
Other assignments/homework: Bi	-weekly assignments
If teaching and learning methods we None	re used other than those specified, list and give reasons:
3- Student assessment:	
Method of assessment	Percentage of total
Written examination	70 %
Oral examination	
Practical/laboratory work	%
Other assignments/class work	<u>10 %</u>
Mid-Term Exam	20 %
Total	100 %
Members of examination committee	Prof. Dr. Osama El Gyar
	Prof Dr. Aly M. Essawi
Role of external evaluator	None
4- Facilities and teaching materials:	
Totally adequate	Yes
Adequate to some extent	
Inadequate	
List any inadequacies	_
None	
5- Administrative constraints	
List any difficulties encountered	
None	
6- Student evaluation of the course:	
List any criticisms	Response of course team
1- Problems with the teaching	New teacher assistant will be engaged the next academic
assistant in exercises	year.

Program report 2012-2013

profile

2- A proposal to extend the subject

semesters

and lecture it in two successive

The actual content and number of lecturing hours are

convenient now, considering the re-determined graduate

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

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None **Action State whether or not completed and give reasons for any None-completion**None

9- Action plan for academic year 2010 - 2011

Actions required Completion date Person responsible

Course coordinator: Prof. Dr. Osama El Gyar

Prof. Dr. Aly M. Essawi

Signature:

Date: Nov. 2011

A- Basic Information

- 1- Title and code: Electrical & Electronic Circuits, E030
- 2- Program(s) on which this course is given: Production Engineering and manufacturing Technology
- 3- Year/Level of program: Third Year
- 4- Unit hours Lectures 3 hrs Tutorial 2 hrs Practical 1 hr Total 6 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr. Ir. Mostafa Sayed AFIFI

Course coordinator Prof. Dr. Ir. Mostafa Sayed AFIFI

External evaluator

B- Statistical Information

No. of students attending the course: No. 98 % 100 No. of students completing the course: No. 97 % 99

Results:

	No.	%	% Grading of successful students		
Passed	97	100	_	No.	%
Failed	0	0	Excellent	8	8.2
			Very Good	12	12.4
			Good	19	19.6
			Pass	58	59.8

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
Introduction: Needs for electric circuits and fluid flow analogy	4	
Electric Circuits, Currents and Potentials	6	
 Power, Energy and basic Units and Dimensions 	4	
Kirchhoff's Current and Voltage conservation of energy, resistances and		
conductance.	4]
 Resistance physical parameters and power computations. 	6	圧
Resistive networks and strain measurements.		AF
Strain Gauges.	4	Sayed AFIF
 Parallel and Series connections, Thevenin's and Norton 	4	
 Voltage dividers and Current dividers 	6	Dr. Ir. Mostafa
Network Analysis		lost
Wheatstone Bridge	6	Ī. N
 Node Voltages and Mish Currents 	8	_
Operational Amplifiers, Inversion, non-inversion, Adders and subtractions.	6	Prof. I
Capacitance and Inductance, its construction, calculations and first order		Ā
transients. Applications and second order transients.	8	
 Vector concepts in Alternating current (AC) analysis 	6]
 Semiconductor systems, and junction diodes, with applications. 	6]
Bipolar Junctions (BJT) and Field Effict (FETs)	6	
Total hours	84	

2012-2013

	Topics taught as a percentage of the content specified: >90 %				
. т	If any topics were taught which are not specified, give reasons in detail Non				
<u> </u>	eaching and learning methods:				
	Lectures: Classical lecturing using the white board and computer supported learning				
	Practical training/ laboratory: Practical training and experimental measurements in Lab				
	Seminar/Workshop: Non				
	Class activity:				
	Numerical exercises; solution of problems by computer and data show, using computer programs; MATLAB.				
	Case Study: Selected case studies				
	Other assignments/homework: Bi-weekly and weekly assignments				
	If teaching and learning methods were used other than those specified, list and give reasons:				
	Non				
3- 5	itudent assessment:				
	Method of assessment Percentage of total				
	Written examination 60 %				
	Oral examination				
	Practical/laboratory work 20 %				
	Other assignments/class work 10 %				
	Mid-Term Exam				
	Total 100 %				
	Members of examination committee Prof. Dr. Ir. Mostafa S. Afifi				
	Role of external evaluator Non				
1- F	acilities and teaching materials:				
	Totally adequate Yes				
	Adequate to some extent				
	Inadequate				
	List any inadequacies: Non				
5- <i>F</i>	dministrative constraints				
	List any difficulties encountered				
	Limitation of number of data show projectors in the principal building				

Limitation of number of operating experiments in the laboratory, due to scheduled one hour per week for the LAB.

6- Student evaluation of the course:

List any criticisms

Response of course team

Less response from the Industrial (a) Engineering Students to electronic courses.

The introduction of the course is directed to explanation of the importance of electronic engineering to mechanical applications. Also more applications are directed to mechanical facilities, such as the strain gauges, electronic ignition and power steering with modeling of mechanical system with electric circuits.

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

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required Planned Completion date Accomplishment

1. Provide more data show projectors in 2011

2. Put more experiments in function in the lab. 2011 Try to increase the LAB hrs

Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2011 - 2012

Actions required Completion date Person responsible

1. Try to increase of Lab hours Department actions

Course coordinator: Prof. Dr Ir Mostafa Afifi

Signature:

Date: 25/7/2011

A- Basic Information

- 1- Title and code: Computer Applications I, M310 a
- 2- Program(s) on which this course is given: Production Engineering and manufacturing Technology
- 3- Year/Level of program: Third Year
- 4- Unit hours Lectures Tutorial Practical 4 hr Total 4 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr. Nabil Gadallah

Course coordinator Prof. Dr. Nabil Gadallah

External evaluator

B- Statistical Information

No. of students attending the course: No. of students completing the course: No. 98 No. 96 % 100 % 07.00

Results:

	No.		%
Passed		83	84.69
Failed		13	13.27

Grading of successful students:				
No. %				
Excellent	12	12.24		
Very Good	12	12.24		
Good	17	17.35		
Pass	42	42.86		
Failed	12	12.24		

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
Introduction to computer applications:	4	
Computer graphics (Pro/Engineer)		
Engineering analysis (Matlab)		
 Solid modelling techniques in art design 		
Extrusion & Revolve	4] _
Applications	12	Gadallah
Sweep and blend	4	adç
Assemblies	8	.=
Detail Drawing (drafting)	8	Nabil
Introduction to MATLAB		
 Introduction & basic vector and matrix operations. 	4	Prof. Dr.
Polynomials and solution of linear equations	4	Pro
Programming and applications	8	
Solid modelling techniques in art design	4]
Total	60	

Topics taught as a percentage of the content specified:					
>90 %	100	70-90 %		<70%	
Reasons in deta	ail for n	ot teaching any topic	None		

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and computer supported learning

Practical training/ laboratory: Matlab & Pro Eng Packages in Lab

Seminar/Workshop:

Two Seminars were arranged by the students:

(a) MATLAB Applications

(b) Computer graphics (Pro/Engineer)

Class activity: Solid Modeling Graphics & MatLab Applications

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

Non

3- Student assessment:

Method of assessment Percentage of total

Written examination 66.7 %
Oral examination ----

Practical/laboratory work

Other assignments/class work

Mid-Term Exam

Total

10 %

10 %

Members of examination committee Dr. Nabil Gadallah

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes

.....

Non

5- Administrative constraints

List any difficulties encountered

6- Student evaluation of the course: Response of course team

None

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

Non

8- Course enhancement:

Progress on actions identified in the previous year's action plan: No previous comments

Action State whether or not completed and give reasons for any non-completion

Non

9- Action plan for academic year 2011 – 2012

Actions required Completion date Person responsible Adding a lectures bi-weekly 1/2011 Prof. Dr Nabil Gadallah

Course coordinator: Prof. Dr Nabil Gadallah

Signature:

Date: 1/2011

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- 1- Title and code: Thermo-fluid machinery, M331
- 2- Program(s) on which this course is given: Production Engineering and manufacturing Technology
- 3- Year/Level of program: third Year Mechanical
- 4- Unit hours Lectures 4 hrs Tutorial 1 hr Practical 1 Total 6 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr. Metwally H. Metwally

Course coordinator Prof. Dr. Metwally H. Metwally

External evaluator

B- Statistical Information

No. of students attending the course: No. 98 % 100 No. of students completing the course: No. 89 % 90.82

Results:

No. % Grading of successful students: **Passed** 62 69.66 No. 27 Excellent 4.49% Failed 30.34 Very Good 4 4.49% Good 10 11.24% Pass 49.44%

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
Introduction to Thermo-Fluid Machinery	8	
Fundamentals of Heat Exchangers	12	ヹ
Mixture of Gases	8	ally /
Combustion and Internal Combustion Chamber	12	Dr. Metwally Metwally
Air Compressors	12	r. N Metv
Gas Turbines	12	7. -
Fluid Machinery	8	Prof.
Total hours	72	

Topics taught as a	percentage of	the o	content specified:
>90 %	70-90 %	80	<70%

Reasons in detail for not teaching any topic The term actually was 12 weeks, taking into consideration, the last three weeks are planned as practical exams and revisions.

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and overhead projector learning

Practical training/ laboratory: Practical training and experimental measurements in Laboratory

Seminar/Workshop: None

Class activity:

Numerical exercises; solution of problems by computer and data show, using computer programs; MATLAB, SIMULINK, and power point.

Modern Academy for Engineering & Technology Manufacturing Engineering & Production Technology Dept.

2012-2013

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment Percentage of total

Written examination 66.67 %

Oral examination ----

Practical/laboratory work
Other assignments/class work
Mid-Term Exam

13.33 %
6.67 %

Total 100 %

Members of examination committee Dr. Metwally H. Metwally

Dr. Abd El-Magid A. Abd Allah

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate Yes
Adequate to some extent

Inadequate
List any inadequacies None

5- Administrative constraints

List any difficulties encountered

Limitation of number of data show in the principal building

Limitation of number of operating experiments in the laboratory

6- Student evaluation of the course:

List any criticisms Response of course team

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

8- Course enhancement:

Progress on actions identified in the previous year's action plan: Non Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2011 – 2012

Actions required Completion date Person responsible

Non Non Non

Course coordinator: Prof. Dr Metwally H. Metwally

Signature:

Date: 2/2011

A- Basic Information

- 1- Title and code: Mechanics of Machines III, M351
- 2- Program(s) on which this course is given: Manufacturing Engineering and Production Technology
- 3- Year/Level of program: third Year/ 1st Semester
- 4- Credit hours

2 Lectures 2 hrs Tutorial 02 hrs Practical - hr

5- Names of lecturers contributing to the delivery of the course: Prof. Dr. Gaafar A. Hussein

6- Course coordinator: Prof. Dr. Gaafar A. Hussein

7- External evaluator: Non

B- Statistical Information

No. of students attending the course:No.98100%No. of students completing the course:No.9596.94%

Results:

	No.	%
Passed	94	95.92
Failed	4	4.08

Grading of successful students:				
Grade	No.	%		
Excellent	18	18.37		
Very Good	22	22.45		
Good	20	20.41		
Pass	34	34.7		

C- Professional Information

1 - Course teaching

Торіс	Total hours	Lecturer
Speed governors	16	
Balancing of rotating masses	8	Prof. Dr.
Balancing of reciprocating masses	8	Gaafar
Engine effort and torque diagrams	8	Hussein
Complete balancing of different engine arrangements	16	
Total hours	56	

Topics taught as a percentage of the content specified: >90 % 100 70-90 % <70%

Reasons in detail for not teaching any topic: Non

If any topics were taught which are not specified, give reasons in detail: Non

2- Teaching and learning methods:

Lectures: Classical Lectures using the white board and computer supported learning.

Practical training/ laboratory: Non Seminar/Workshop: Non

Class activity Numerical exercises; solution of problems, demonstrations by data show,

Case Study: Selected case studies Other assignments/homework: Weekly assignments.

If teaching and learning methods were used other than those specified, give reasons:

Non

3- Student assessment:

Method of assessment	%
Written examination	70
Oral examination	0
Practical/laboratory work	0
Other assignments/class work	15
Mid-Term Exam	15
Total	100

Members of examination committee: Prof. Dr. Gaafar A. Hussein

Role of external evaluator: None

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies:

Non

- 5- Administrative constraints (List any difficulties encountered)
 - > Limitation of number of data show in the principle building.
 - Limitation of number of operating experiments in the laboratory.

6- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	A proposal to extend the subject in two	The actual content and number of lectures hours
	successive semesters	are convenient now, considering the pre-determined
		gradual profile.

7- Comments from external evaluator(s):

_	Comment Response of co		Response of course team
	(a)	Non	non

8- Course enhancement:

Progress on actions identified in the previous year's action plan. Non State whether or not completed and give reasons for any non-completion: Non

9- Action plan for academic year 2011 – 2012

Actions required: Provide more data show apparatuses

Completion data: Non Action Response: Non

Course coordinator: Prof. Dr Gaafar Hussein

Signature:

Date: September, 2011

A- Basic Information	nformation
----------------------	------------

	2- Program(s) 3- Year/Level 4- Unit hours 5- Names of le	ode: Industria on which this of program: 3 Lectures 2 ecturers contri	course is given to year, 1st Tender, 1st T	ven: Ma rm, Mec 	nufacturi h. Practi	er		
	Exter	nal evaluator						
B- Sta	tistical Info	rmation						
	No. of studen	ts attending th	e course:	No.	98	% 100		
		ts completing		No.	85	% 86.75		
	Results: Mecl							
		No.	%			Grading of succ	essful students:	
	Passed	69	81.2			· ·	No.	%
	Failed	16	18.8			Excellent	13	15.3
						Very Good	9	10.6
						Good	16	18.8
						Pass	31	36.5
C Dro	foccional l	formation						

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Industrial Design, Design Concept	2	
Ergonomics	2	
Application of ergonomics- Instruments- Controls- Workplace.	2	
Aesthetics and ergonomics consideration.	2	
Working conditions and Environment.	2	
Heating and Ventilation.	2	ber
Industrial Ventilation- Local Ventilation.	2	Sa
Air condition systems.	2	hnc
CFC'S- Ozone depletion and Global warming.	2	mq
Noise – Exposure to noise.	2	Dr. Mamdouh Saber
Noise Control Technique – Vibration.	2	Ģ.
Lightening- Level of illuminance.	2	
Factors affecting the quality of lightening.	2	1
Human Effectiveness.	2]
Heat flaw and steady state heat distribution	4	
Total hours	28	

Topics taught	as a pe	ercentage of the content	specified:		
>90 %	100	70-90 %		<70%	
Reasons in de	tail for	not teaching any topic			
If any topics w	ere tau	ight which are not specif	fied, aive re	asons in detail: No	one

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory: Teaching aids and life components and assembly

Seminar/Workshop: None

Class activity:

Case Study: Selected case studies

Other assignments/homework: Two Reports

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment Percentage of total

Written examination 70 %

Oral examination ---
Practical/laboratory work %

Other assignments/class work 20 %

Mid-Term Exam 10 %

Total 100 %

Members of examination committee Prof. Dr. Mamdouh Saber

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes

.....

None

5- Administrative constraints

List any difficulties encountered

Limitation of number of data show in the principal building,

Courses are shared between two buildings.

6- Student evaluation of the course:

List any criticisms Response of course team

1. It is recommended to have exercise. Limited by the super council of higher education hero

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

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any None-completion None

9- Action plan for academic year 2011 – 2012

Actions required Completion date Person responsible

Course coordinator: Prof. Dr. Mamdouh Saber

Signature:

Date: Sept.2011

A- Basic Information

1- Title and code: Manufacturing Technology I, M363

2- Program(s) on which this course is given: Production Engineering and manufacturing Technology

3- Year/Level of program: third year

4- Unit hours Lectures 3 hrs Tutorial 2 hrs Practical 1 Total 6 hrs

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

Dr. M. Merdan

Course coordinator Dr. M. Merdan External evaluator Non

B- Statistical Information

No. of students attending the course: No. 98 % 100 No. of students completing the course: No. 94 % 95.92

Results:

No. % Grading of successful students: Passed 94 100 No. Failed 0 0 Excellent 21

Excellent 21 22.34% Very Good 15 15.96% Good 28 29.79% Pass 30 31.91%

C- Professional Information

1- Contents

Topic Actually taught	Lecture hours	Tutorial hours	Practical Hours
 Introduction; definition of machining system; manufacturing processes and elements of machining system. 	3	4	
 Machining deviations; reasons types; dimensional deviations; ISO system of machines; standardization and measurement of surface roughness. 	3	2	1
Cutting tool: failure, material and geometry.	2	4	2
Chip formation, and effect of cutting conditions on chip formation	2	2	2
 Integrity of machined surface, work hardening, residual stress and surface roughness. 	2		2
Cutting force calculation and the effect of cutting conditions on it	3	4	2
 Heat generations during cutting, source and heat distribution, and effect on cutting 	2	2	
 Cutting tool wear; types of wear and its curves; the effect of cutting parameters 	3	4	2
Determining of optimum cutting conditions	3	4	
Productivity of fine and rough cutting operations	2		2
Determination of production cost	1		
Gears manufacturing	2		2
Jig and fixture design	2	4	
Total	30	30	15

Topics taught as a >90 % 10	70	-90 %		<70%	
Reasons in detail for If any topics were t			Non ed, give reasons	s in detail No	1
2- Teaching and learning	g methods:				
Practical training/ In Seminar/Workshop Class activity: Solution Case Study: Other assignments	: Yes tions of problems None /homework:	assignme	ents report each i		
If teaching and lear None	ning methods were	usea ot	ner than those s	specified, lis	t and give reasons:
3- Student assessment:	:				
Method of assessm	nent			Percentage	of total
Written examination Oral examination Practical/laboratory Other assignments Mid-Term Exam Total	/ work			60% 20% 5% 15% 100 %	
Members of examir Role of external eva			Dr. M. Merdan Non		
4- Facilities and teachir	ng materials:				
Totally adequate Adequate to some of Inadequate List any inadequac			Yes Non		
5- Administrative const	raints				
List any difficulties ➤ none	encountered				
6- Student evaluation of List any criticis			Response of co	urse team	
7- Comments from exte	rnal evaluator(s):		Response of co	urse team	
8- Course enhancemen	t:				
Progress on actions Action State whether					tion Non
9- Action plan for acade	emic year 2011 – 20	12			
Actions	required		Completion d	ate	Person responsible
Course coordinator: Signature:	Dr. M. Merdan				
Date:	2/20011				

A- Basic Information

1- Title and code: Electric Power Systems, E050

2- Program(s) on which this course is given: Manufacturing Eng. & Production Technology
Electronic Eng. & Communications Tech. Dpt. Computer Engineering & Information Technology Dpt.

3- Year/Level of program: Third year / 2nd Semester

4- Unit hours Lectures 2 hrs Tutorial 2 hrs Practical 1 hrs Total 5 hrs

5- Names of lecturers contributing to the delivery of the course: Prof. Dr. Said A. Gawish

Course coordinator: Prof. Dr. Said A. Gawish

External evaluator: None

B- Statistical Information

No. of students attending the course: No.=98 100%
No. of students completing the course: No. =92 94 %

Results: No. % Grading of successful students:

Passed 78 79.6 No. %

Failed 20 20.4 Excellent 20 20.41

Very Good 16 16.33

Good 16 16.33

Pass 26 26.53

C- Professional Information

1 – Course teaching:

Topic	Lecture hours	Lecturer
Circuit analysis of transformers	4	
Transformer construction	2	
 Equivalent circuit of a transformer 	2	
Transformer test	2	
Construction of dc machines	2	/ish
Classification of dc machines	2	[⊃] rof. Dr. Said A. Gawish
Circuit equations of dc machines	2	A. (
DC machine efficiency	2	aid
Construction of induction motors	2	r. S
Torque-speed characteristics	2	f. D
Efficiency of induction motors	2	Pro
Circuit equations of synchronous machines	2	
Construction of synch machines	2	
Operation of synch machines	2	
Total hours	30	

Percentage of	the conten	t specified:
---------------	------------	--------------

>90 % √ 70-90 % - <70% 100%

Reasons in detail for not teaching any topic None

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory: Computer Lab.

Seminar/Workshop: None

Class activity: A monthly discussion of what is given in the previous weeks.

Case Study: None

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment: Through Quizzes, oral participation in class, midterm exams and attendance reports

Written examination 60 %
Practical examination 20 %
Other assignments/class work 10 %
Mid-Term Exam 10 %
Total 100 %

Members of examination committee Prof. Dr. Said A. Gawish

Role of external evaluator None

4- Facilities and teaching materials: Dictionaries, Tape recorders....etc

Totally adequate
Adequate to some extent

Inadequate List any inadequacies None

5- Administrative constraints

List any difficulties encountered

None

6- Student evaluation of the course:

List any criticisms Response of course team

None None

7- Comments from external evaluator(s):

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any none-completion None

9- Action plan for academic year 2011 - 2012

Actions required Completion date Person responsible

None

Course coordinator: Prof. Dr. Said A. Gawish

Signature:

Date: October, 2011

A- Basic Information

- 1- Title and code: Computer Applications II, M310 b
- 2- Program(s) on which this course is given: Production Engineering and manufacturing Technology
- 3- Year/Level of program: third year
- 4- Unit hours Lectures hrs Tutorial hrs Practical 4 Total 4 hrs
- 5- Names of lecturers contributing to the delivery of the course

Dr. Atef Afifi

Course coordinator Dr. Atef Afifi External evaluator None

B- Statistical Information

No. of students attending the course: No. 98 % 100 No. of students completing the course: No. 91 % 92.86%

Results:

	No.	%	Grading of succes	ssful students:	
Passed	76	96.94	_	No.	%
Failed	15	3.06	Excellent	17	18.68
			Very Good	19	20.88
			Good	15	16.48
			Pass	25	27.47

C- Professional Information

1 – Course teaching:

Topic Actually taught	Practical hours	Lecturer
Introduction to NC and CNC Machines	2	
Basic Definitions of G-Codes	2	
Different Types of G-Codes	4	
Basic Terminology of G-Code (FUNOC)	4	
Milling:		
 Work piece Installation 	4	
 Determination of Zero Position 	4	
 Definition and Applications of G58 , G52 	4	Or Atef Afifi
 Definition and Applications of G00 	4	ıtef
 Definition and Applications of G01 	4	or A
 Definition and Applications of G02, G03 	8	
Turning:		
 Definition and Applications of G58 , G52 	4	
 Definition and Applications of G00 	4	
 Definition and Applications of G01 	4	
 Definition and Applications of G02, G03 	4	
Revisions	4	
Total Hours	60	

Topics taught as a percentage of the content specified:

>90 % 100 70-90 % Reasons in detail for not teaching any topic If any topics were taught which are not speci	Non ified, give reasons	<70% s in detail No	 n
2- Teaching and learning methods:			
Lectures: Classical lecturing using the white Practical training/ laboratory: Yes Seminar/Workshop: Yes Class activity: Solutions of problems Case Study: None	board ments report each i	month	
If teaching and learning methods were used None	other than those s	specified, lis	t and give reasons:
3- Student assessment:			
Method of assessment		Percentage	e of total
Written examination Oral examination Practical/laboratory work Other assignments/class work/ Mid-Term Exam Total		60% 20% 10% 10% 100 %	
Members of examination committee Role of external evaluator	Dr. Atef Afifi None		
4- Facilities and teaching materials:			
Totally adequate Adequate to some extent Inadequate List any inadequacies	Yes Non		
5- Administrative constraints			
List any difficulties encountered > none			
6- Student evaluation of the course: List any criticisms	Response of co	urse team	
7- Comments from external evaluator(s):	Response of co	urse team	
8- Course enhancement:			
Progress on actions identified in the previous Action State whether or not completed and gi			letionNon
9- Action plan for academic year 2009 – 2010			
Actions required None Course coordinator: Dr Atef Afifi Signature: Date: November 2011	Completion d	ate	Person responsible

	_				
Δ- Ι	≺aς	ור ו	Int∩	rma	tion

- 1- Title and code: Industrial Management, M312
- 2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
- 3- Year/Level of program: third year
- 4- Unit hours Lectures 2 hrs Tutorial 2 hrs Practical Total 4 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr. Ahmed Sarhan

Course coordinator Prof. Dr. Ahmed Sarhan

External evaluator

B- Statistical Information

No. of students attending the course: No. 98 % 100 No. of students completing the course: No. 95 % 96.9

Results:

Grading of successful students: No. **Passed** 92 93.88 No. % Failed 3 Excellent 28.57 3.06 28 Very Good 18 18.37 Good 19 19.39 **Pass** 27 27.55

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
Introduction	4	4
Feasibility study	10	8
Project management	12	10
Linear Programming	14	2
Transportation Problems	8	2
Assignment Problems	8	2
Total hours	56	14 lec.

T .					
Lonice	tallaht ac	a percentage	of tha	CONTANT	charitiad.
LUDICS	tauunt as	a percentage	OI LIIC	COLICII	SUCCITICU.

Reasons in detail for not teaching any topic Non

If any topics were taught which are not specified, give reasons in detail Non

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory: No

Seminar/Workshop: Non

Class activity: Numerical exercises;

Case Study: Selected case studies

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

Non

3- Student assessment:

Method of assessment Percentage of total

Written examination 70%
Oral examination ---Practical/laboratory work ---Other assignments/class work/ 10%
project report and presentation 10%
Mid-Term Exam 10%
Total 100 %

Members of examination committee Dr. Ahmed Sarhan

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes

.....

Non

5- Administrative constraints

List any difficulties encountered

> no

6- Student evaluation of the course:

List any criticisms Response of course team

None None

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

None None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: yes

Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2011 - 2012

Actions required Completion date Person responsible

Course coordinator: Prof. Dr Ahmed Sarhan

Signature:

Date: 2/2011

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۹-	Basic Information				
	1- Title and code: Measurin 2- Program(s) on which this 3- Year/Level of program: thi 4- Unit hours Lectures 2 hrs 5- Names of lecturers contril P Course coordinator P	course is gird year Tutoria outing to the	ven: Manufacturing Eng I 1 hrs Practical 1 hrs e delivery of the course ed Sarhan	and Production Te	
	External evaluator				
R-	Statistical Information				
	Statistical information			<u> </u>	
	No. of students attending th No. of students completing to Results:		No. 98 % 1 No. 95 % 9		
	No.	%	Grad	ding of successful s	tudents:
	Passed 94	95.92		Ü	No. %
	Failed 4	4.08	Exc	ellent	26 26.5
			Very	/ Good	20 20.4
			Goo	d	21 21.4
			Pass	S	27 27.6
ဌ-	Professional Information				
	1- Course teaching				
	Topic Ac	tually taugh	t	No. of hours	Lecturer
	Measuring system characteristic	S		4	
	Traceability, uncertainty & calibration			2	
	Strain measurements: Wire strain			2	
					T

Topic Actually taught	No. of hours	Lecturer
Measuring system characteristics	4	
Traceability, uncertainty & calibration	2	
Strain measurements: Wire strain gauges	2	
Strain measurements: Extensometers	2	
Stress measurements: Photo-elasticity	2	
Time and speed (linear and angular) measurements	2	
Acceleration and frequency measurements	2	
Force and torque measurements	2	
Power measurements	2	
Pressure measurements	2	
Temperature measurements	2	
Solid and fluid level measurements	1	
Viscosity measurements	1	
Fluid flow measurements(velocity, rate of discharge, pressure and temperature)	4	
Total hours	28	

and temperature)	7
Total hours	28
Topics taught as a percentage of the content specified: >90 % 100 70-90 %	il Non

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory: yes

Seminar/Workshop: Non
Class activity: Numerical exercises;
Case Study: Selected case studies

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

Non

3- Student assessment:

Method of assessment Percentage of total

Written examination 60%
Oral examination ---Practical/laboratory work 20
Other assignments/class work

Mid-Term Exam 20% Total 100 %

Members of examination committee Dr. Ahmed Sarhan

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate Y
Adequate to some extent --Inadequate ...

List any inadequacies

5- Administrative constraints

List any difficulties encountered

➤ Non

6- Student evaluation of the course:

List any criticisms
None
Response of course team
None

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

8- Course enhancement:

Progress on actions identified in the previous year's action plan: Non Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2011 – 2012

Actions required Completion date Person responsible

Course coordinator: Prof. Dr Ahmed Sarhan

Signature:

Date: 15/2/2011

A- Basic Information

1-	Title and	code:	Manufacturing	Technology II.	M364

2- Program(s) on which this course is given: Manufacturing Eng. And production Technology

3- Year/Level of program: 3rd year Manufacturing Technology / 2nd term

4- Unit hours Lectures: 3 hrs Tutorial: 1hrs Practical: 1hrs Total: 5 hrs

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

Prof. Dr. A.M. Kohail

Course coordinator: Prof. Dr. A.M..Kohail

External evaluator: None

B- Statistical Information

No. of students attending the course: 98
No. of students completing the course: 91

Results:	No.	%
Passed	75	82.42
Failed	16	17.58

100	%	
92.8	6	%

Grading of successful students:

No.

Excellent	11	12.09%
Very Good	8	8.79%
Good	14	15.38%
Pass	42	46.15%

C- Professional Information

1. Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
Cutting tools materials and geometry	3	2	-
Turning operation, machines and cut. parameters	6	2	4
Milling operation, machines and cut. parameters	4	-	2
 Shaping and Planning operation, machines and cut. 			
parameters	4	2	2
 Drilling operation, machines and cut. parameters 	2	1	1
 Boring operation, machines and cut. parameters 	2	-	-
Grinding operation, machines and cut. parameters	4	1	2
Thread cutting methods	2	1	
Gear cutting methods	4	2	2
Finishing operations	4	-	-
 Process planning and process sheet preparation 	4	2	2
Jig and fixtures design	6	2	-
Total hours	45	15	15

•	Topics t	augh	t as a percent	tage of the content specified	:
	>90 %	100	70-90 %	<70%	

- Reasons in detail for not teaching any topic
- If any topics were taught which are not specified, give reasons in detail

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory: Computer lab. with software

Seminar/Workshop: None

Class activity: Solution of Problems

Case Study: None

Other assignments/homework: Assignment report each 4 weeks

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Method of assessment Percentage of total Written examination 60 Oral examination Practical/laboratory work 20

Other assignments/class work 10 Mid-Term Exam 10 Total 100

Members of examination committee Prof. Dr. A.M.Kohail Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate Adequate to some extent Inadequate

List any inadequacies

5- Administrative constraints List any difficulties encountered Software is not available

6- Student evaluation of the course:

List any criticisms Response of course team None

None

None

7- Comments from external evaluator(s): Response of course team None None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion: None

9- Action plan for academic year: 2011 – 2012

Actions required Completion date Person responsible

None None

Course coordinator:

Prof. Dr. A.M.Kohail

Signature:

Date: 1/9/2011

171 2012-2013 Program report

Annual Course Report (2010/2011)

Δ- Ι	Kac	ור	Int∩	rmation

- 1- Title and code: (M371) Machine Design (I)
- 2- Program(s) on which this course is given: Production Eng. & manufacturing Technology Dpt.
- 3- Year/Level of program: Third Year Manufacturing Engineering, 2nd Semester
- 4- Unit hours Lectures 3hrs Tutorial Practical 3 hrs Total 6 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr. Serage Eldin Khalifa

Course coordinator: Prof. Dr. Serage Eldin Khalifa

B- Statistical Information

No. of students attending the course: No. 98 % 100 No. of students completing the course: No. 93 % 94.9

Results:

	No.	%	Grading of successf	Grading of successful students:	
Passed	85	91.4		No.	%
Failed	8	8.6	Excellent	13	14
			Very Good	14	15.1
			Good	16	17.2
			Pass	42	45.2

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of	hours	Lecturer
Topic Actually taught	Lec	Tut	
Introduction	2	1	
Stresses at a Point	2	2	Ø
Principal Stresses	4	4	Khalifa
Design for Static Strength	6	6	支
Design for Dynamic Strength	9	10	Eldii
Design of Shafts	3	5	
Design of Keys, Feathers, and Splines	3	3	Serage
Design of Threaded Joints, Fasteners and Connections	6	6	_
Design of Welded Joints	2	2	تَ
Design of Helical Springs	4	4	Prof.
Design of Pressed –on Joints	4	2	
Total hours	45	45	

>90 Reasons in (% 100 detail for not t	ntage of the content 70-90 % teaching any topic which are not speci	- None	<70% asons in detail	
2- Teaching and	learning meth	nods:			
Lectures:	Classical lecti	uring using the white	board and co	mputer support	ed learning
Tutorials: Cl	assical Exercis	ses using the white b	oard and com	nputer supporte	d learning

Practical training/ laboratory: None

Seminar/Workshop: None

Class activity: Numerical exercises; solution of problems by calculator or computer and data show, using

computer programs.

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment Percentage of total

Written examination

Oral examination

Practical/laboratory work

Other assignments/class work

Mid-Term Exam

10 %

Total 100 %

Members of examination committee Prof. Dr. Serage Eldin Khalifa

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes

.....

None

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

List any criticisms Response of course team

None

7- Comments from external evaluator(s):

None

8- Course Enhancement:

Progress on actions identified in the previous year's action plan:

None
Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2011 – 2012

Actions required Completion date Person responsible

None

Course coordinator: Prof. Dr Serage Eldin Khalifa

Signature:

Date: 15/7/2011

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2- Program(s 3- Year/Leve 4- Unit hours	of program: Fift Lectures Lectures Lecturers contrib	course is given: h Year Manufacto Tutorial Tutorial uting to the deli Staff of the delmag	uring Eng. & Pr Practical 2 Practical 4 ivery of the co tment	Total 2 hrs First Term Total 4 hrs Second Te)	
B- Statistica	I Information					
	students attendir students complet	•	No. 98 No. 98	% <mark>100</mark> % 100		
Results	No.	%		Grading of succe	ssful students	S:
Passe	d 96	97.95		3 · · · · · ·	No.	%
Failed	2	2.05		Excellent	66	67.34
				Very Good	13	13.265
				Good	13	13.265
				Pass	4	4.08
C- Profession	nal Informati	on				

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Collection of technical data		
Technical report	ō	
Design and technological procedure	of the	ent
Presentation of Problem	<u>5</u>	artm
Problem solving	According to the subject project	All the teaching staff of the department
Realization of design	o the su project	the o
Testing and inspection	o the	f of
Writing of technical report	g tc	staf
Follow up of technical work	dip	ing
Assembly of components	1000	eack
Presentation of producer	A	he te
Evaluation of producer quality		All t
Total Hours	60	

	Testing and inspection	o the proj	of t
		to t pr) H
	Writing of technical report	g t	sta
	Follow up of technical work	dip	jing
	Assembly of components	According	each
	Presentation of producer	A	All the teaching staff
	Evaluation of producer quality		All t
	Total Hours	60	
·	cs taught as a percentage of the content specified: >90 % 100 70-90 % <70% ons in detail for not teaching any topic		
	y topics were taught which are not specified, give reasons in detail	None	

2- Teaching and learning methods:

Lectures: Classical lecturing, seminars, reports, & presentations

Practical training/ laboratory: Testing & calibration

Seminar/Workshop: 3 seminars in addition to final presentation

Class activity: brain storming, & discussions

Case Study:

Other assignments/homework: Weekly assignment

If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment:

Method of assessment Percentage of total

Written examination
Oral examination

Practical/laboratory work
Other assignments/class work

Mid-Term Exam

Total 100 %

Members of examination committee All members of the Role of external evaluator

None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes None 25%

25%

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

List any criticisms	Response of course team
 It is difficult to arrange meetings with the supervisors during the periods. Most of the groups meet with their supervisor during the break. 	Advisors arrange the classes of the project group.

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

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2011 – 2012

Actions required Completion date Person responsible

Students of each project should be in the same class Sept. 2012 Chief of chair

Course coordinator: Dr. Bakkar Elsarnagawy

Signature:

Date: 1/11/2011

4th year Manufacturing Eng. & Production Tech.

NO.	Code	Course
1	B411	Mathematics VI
2	M454	Production Management
3	M461	System Dynamics & Vibrations
4	M471	Machine Design II
5	M481	Manufacturing Technology III
6	E051	Signal Processing
7	M400	Summer Training
8	M462	Materials Technology II
9	M472	Computer Aided Design (CAD)
10	M474	Machine Tool Design
11	M482	Automatic Control

Annual Course Report (Academic Year 2011-2012)

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<i>,</i> ,	Dus		\mathbf{I}	ıııu	uvii

- 1- Title and code: Math. VI, Numerical Analysis and Probability Theory, B411
- 2- Program(s) on which this course is given: Basic Science
- 3- Year/Level of program: 4th year, 1st Term, (Elect. Mech.)
- 4- Unit hours Lectures 2hrs Tutorial 2 hrs Practical hr Total 4 hrs
- 5- Names of lecturers contributing to the delivery of the course

Course coordinator Prof. Dr. Osama El Gayar

External evaluator

B- Statistical Information

No. of students attending the course: No. 530 % $\boxed{100}$ No. of students completing the course: No. 517 % $\boxed{97.54}$

Results: Electr.

Grading of successful students: No. % 60.54 **Passed** 313 Failed 13 2.51 Excellent 181 21.1 Very Good 96 11 Good 36 13 Pass 204 39.45

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
Least Square approximation	2	
Netton interpolation	2	
Differentiation of Laplace transform	4	
Integration of laplace transform	4	
Solving D.E using laplace transform	4	
Laplace transform of the derivative	4	
Laplace transform of the Integral	4	
The Gamma and Beta function	4	
Line integral and application	4	
Double integral and application	4	
Multiple integral and application	4	
Surface and volume Integral	4	
Legendre and Bessel functions	4	J
Cylindrical and spherical polar coordinates	4	J
Final Revison	4	J
Total hours	60	

Topics taught a	as a pe	rcentage of	the conte	nt specified:	
		70-90 %		<70%	
Reasons in det	ail for i	not teaching	any topio	C	
If any topics w	ere tau	ght which a	e not spe	cified, give rea	sons in detail
2- Teaching and <u>lea</u>	rning r	nethods:			
Lectures: Cl	assical	lecturing usi	ng the whi	te board, project	tors and data show

Practical training/ laboratory: None

Seminar/Workshop: None

Class activity: Numerical exercises; solution of problems

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment Percentage of total 70 %

Written examination Oral examination

Practical/laboratory work Other assignments/class work

Mid-Term Exam Total

Members of examination committee Prof. Dr. Osama El Gyar Prof Dr. Aly M. Essawi

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered

None

6- Student evaluation of the course:

List any criticisms Response of course team

2. Problems with the teaching assistant in exercises

3. A proposal to extend the subject

and lecture it in two successive semesters

The actual content and number of lecturing hours are convenient now, considering the re-determined graduate profile

New teacher assistant will be engaged the next academic year.

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

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Action State whether or not completed and give reasons for any None-completion None

9- Action plan for academic year 2011- 2012

Actions required Completion date Person responsible Aug. 2012 Prof. Dr. Osama El Gyar None

Course coordinator: Prof. Dr. Osama El Gyar

Prof. Dr. Aly M. Essawi

Signature: Date:

Annual Course Report (Academic Year 2011-2012)

A- Basic Information

1- T	Title ar	nd code:	Production	Management,	M454
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2- Program(s) on which this course is given: Manufacturing Eng. & production Technology

3- Year/Level of program: 4th year Manufacturing Technology / 2nd term

4- Unit hours Lectures: 3 hrs Tutorial: 1hrs Practical: 1hrs Total: 5 hrs

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

Prof. Dr. A. Sarhan

Course coordinator: Prof. Dr. A.Sarhan

External evaluator: None

B- Statistical Information

No. of students attending the course: 95 100%

No. of students completing the course: 90 94.7%

Results:

No. % Grading of successful students: Passed 85.55 % 77 No. Failed 13 14.45 Excellent 7.78 7 Very Good 10 11.11 Good 8.89 8 Pass 52 57.78

C- Professional Information

2. Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
Product and service design	3	-	-
Forecasting Techniques	6	3	2
Productivity and competitvness	2	-	-
Capacity Planning	6	2	-
Cost Analysis	3	-	2
Break-Even-analysis	4	2	4
Design of work systems	4		-
Learning curves	2	1	-
Reliability and Maintenance	4	1	2
Decision Theory	4	2	2
Inventory Management	4	2	3
Stochastic Inventory Model	3	2	-
Total hours	45	15	15

•	Topics t	:augh	t as a percent	age of	f the content specified	:
	>90 %	100	70-90 %		<70%	

>90 % 100 70-90 % <70%
Reasons in detail for not teaching any topic

If any topics were taught which are not specified, give reasons in detail

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory: Computer lab. with software

Seminar/Workshop: None

Class activity: Solution of Problems

Case Study:

Other assignments/homework: Assignment report each 4 weeks

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Method of assessment Percentage of total 100 Written examination Oral examination Practical/laboratory work 20 Other assignments/class work 10 Mid-Term Exam 20 Total 150

Members of examination committee Prof. Dr. A.Sarhan Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate Adequate to some extent Inadequate List any inadequacies

5- Administrative constraints

List any difficulties encountered Software is not available

6- Student evaluation of the course:

List any criticisms Response of course team None None

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

None None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2011 - 2012

Actions required Completion date Person responsible

None None

Prof. Dr. A.Sarhan Course coordinator:

Signature:

1/9/2011 Date:

Annual Course Report (Academic Year 2011-2012)

A- Basic Information

- Title and code: System Dynamics & Vibrations, M461
- 2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
- 3- Year/Level of program: Fourth Year, 1st Semester
- 4- Unit hours Lectures 3 hrs Tutorial 2 hrs Practical 1 hr Total 6 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Gaafar A. Hussein

Course coordinator Prof. Gaafar A. Hussein

External evaluator: None

B- Statistical Information

No. of students attending the course: No. 95% 100 No. of students completing the course: No. 94% 98.95

Grading of successful students: Results: No. Passed 89 98.94 No. Failed 18.09 1 1.06 Excellent 17 18.09 Very Good 17 Good 25 26.60 Pass 34 36.17

C- Professional Information

1 - Course teaching

Topic Actually taught	Lecture hours	Tutorial hours	Practical hours	Lecturer
Introduction to system dynamics System Classifications and basic functions	3	3		
Basic concepts of vibrating systems and the equations of motion of the vibrating elements.	4	3		
 Response of free vibrating systems with single and multiple degree of freedom. 	8	6		ii
 Response of single and multiple degree of freedom systems undergoing different forcing functions. 	10	8		Prof. Dr. Gaafar A. Hussein
 MATLAB simulation of single degree of freedom systems. 			6	afar A.
 Mechanical-electrical and mechanical-hydraulic analogies. 	6	6		Dr. Ga
Vibration absorbing techniques.	4	4		of.
Vibration Measurements	4		3	Pr
 Machine monitoring conditions using system dynamic analysis. 	6		3	
 MATLAB Simulation of multiple degree of freedom systems 			3	
Total hours	45	30	15	

Topics taught as	a percentage of t	he content sp	ecified:	
>90 %	100	70-90 %		<70%

Reasons in detail for not teaching any topic None If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and computer supported learning

Practical training/ laboratory: None

Seminar/Workshop: None

Class activity:

Numerical exercises; solution of problems, demonstrations by data show, using

computer programs; MATLAB, SIMULINK

Case Study: Selected case studies

Other assignments/homework: Weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment Percentage of total

Written examination
Oral examination
Practical/laboratory work
Other assignments/class work
Mid-Term Exam
Total

66.7%

66.7%

13.3 %

13.3 %

100 %

Members of examination committee Prof. Gaafar Ahmed Hussein

Prof. Abdelmegid Abdalla

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

Yes

.....

List any inadequacies

5- Administrative constraints

List any difficulties encountered

Limitation of number of data show in the principal building

> Limitation of number of operating experiments in the laboratory

6- Student evaluation of the course:

List any criticisms Response of course team

Laboratory experiments are insufficient This is due to the lack of vibration lab. This is replaced by

simulation

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

None None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion None

Modern Academy for Engineering & Technology Manufacturing Engineering & Production Technology Dept.

2012-2013

9- Action plan for academic year 2012 – 2013

Actions required Completion date Person responsible
1. Provide more data show apparatuses None None

Course coordinator: Prof. Dr Gaafar A. Hussein

Signature:

Date: 1/8/2012

Annual Course Report (Academic Year 2011-2012)

Λ_	Rag	CIC	Into	rmation
_	1)(1.	711.	11 11 <i>1 1</i>	1 1 1 1 <i>6</i> 1 1 1 1 <i>1</i> 1 1

1- T	「itle and	code:	Machine	Design	Ш,	M47	1
------	-----------	-------	---------	--------	----	-----	---

2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology

3- Year/Level of program: Fourth Year Manufacturing Engineering,1st Semester

4- Unit hours Lectures 3hrs Tutorial - Practical 4hrs Total 7 hrs

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

Prof. Dr. Serage Eldin Khalifa

B- Statistical Information

No. of students attending the course: No. 95 % 100 No. of students completing the course: No. 90 % 94.74

Results:

	No.	%	Grading of successful students:		
Passed	69	76.66		No.	%
Failed	21	23.34	Excellent	1	1.11
			Very Good	4	4.44
			Good	12	13.33
			Pass	52	57.78

C- Professional Information

1 - Course teaching

Topic Actually taught		No. o Lec	of hours Tut	Lecturer
Hydrodynamic bearings theory		6	8	
Hydrodynamic bearings design		6	4	Eldin
Rolling contact bearings		6	12	
Involute gear tooth		3	4	age fa
Spur gears		6	8	Dr. Serage Khalifa
Helical gears		6	8	J. Kl
Bevel gears		6	8	of. [
Worm gearing		6	8	Prof.
Total hours		45	60	

	it as a percentage of the content specified.			
>90	% [100] 70-90 % [-] <70% []			
Reasons in detail for not teaching any topic None				
If any topics	were taught which are not specified, give reasons in detail None			
0 T 1' 1				
2- Teaching and	learning methods:			
Lectures:	Classical lecturing using the white board and computer supported learning			
Tutorials: Classical Exercises using the white board and computer supported learning				
Practical tra	ining/ laboratory: None			
Seminar/Wo	rkshop: None			
Class activity: Numerical exercises; solution of problems by calculator or computer, drawing by AutoCAD				
	_2004			
Case Study:	Selected case studies			

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment:

Method of assessment Percentage of total

Written examination 66.7 % Oral examination 13.3 %

Practical/laboratory work

Other assignments/class work

Mid-Term Exam

Total

10 %

Members of examination committee Prof. Dr. Serage Eldin Khalifa

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes

.....

None

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

List any criticisms Response of course team

None

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

None

8- Course Enhancement:

Progress on actions identified in the previous year's action plan:

None

Action State whether or not completed and give reasons for any non-completion

None

9- Action plan for academic year 2012- 2013

Actions required Completion date Person responsible

None

Course coordinator: Prof. Dr Serage Eldin Khalifa

Signature:

Date: 15/7/2012

Annual Course Report (Academic Year 2011-2012)

A- Basic Information

- 1- Title and code: Manufacturing Technology III, M481
- 2- Program(s) on which this course is given: Manufacturing Eng. & Production Technology
- 3- Year/Level of program: 4th year Manufacturing / 1st term
- 4- Unit hours Lectures 4 hrs Tutorial 2 hrs Practical 2 hrs Total 8 hrs
- 5- Names of lecturers contributing to the delivery of the course:

Dr. M. Merdan

Dr. A. Afifi

Course coordinator: Dr. M. Merdan

External evaluator: None

B- Statistical Information

No. of students attending the course: 83
No. of students completing the course: 78

Results:

	No.	%	Grading of successful students:		ents:
Passed	74	88.50	_	No.	%
Failed	9	11.50	Excellent	15	19.20
			Very Good	14	17.90
			Good	15	19.20
			Pass	27	34.60

C- Professional Information

1 - Course teaching

Topic	Lecture hours	Tutoria I hours	Practical hours	Lecturer
Definition, classification, and properties of plastic materials,	2	2		
Design considerations of plastic products,	2			
Plastics molding processes, and types of plastic molds,	4	2		. M. Merdan Eatimad
Plastic injection molds design,	18			Mer nad
Sheet metals dies design,	2	18		7. N atin
Forging and deep drawing dies.	2	8		Dr.∧ ng. E
Programming of CNC lathes,	12	5	5	т. Б. Б.
Programming of CNC milling machines.	12	5	5	Prof. Dr. Eng.
Using the available software packages, in design and manufacture of molds and dies	6	5	5	
Total	60	45	15	

<70%

•	Topics	taught as	a percent	tage of the	content	specified:
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Reasons in detail for not teaching any topic

If any topics were taught which are not specified, give reasons in detail

70-90 %

2- Teaching and learning methods:

>90 % 100

Lectures: Classical lecturing using the white board

Practical training/ laboratory: CNC Lab

Seminar/Workshop: None

Class activity: Assignments on design of molds and dies

Case Study: None

Other assignments/homework: | Assignment report each 4 weeks

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Method of assessment

Points of total

100

Written examination

Oral examination

Practical/laboratory work

Other assignments/class work

Mid-Term Exam

Total

Dr. M. Merdan and Dr. A.Afifi None

Yes

Members of examination committee Role of external evaluator

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

List any criticisms Response of course team

None None

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

> None None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2013 - 2014

Actions required Completion date Person responsible None

None

Course coordinator: Dr. M. Merdan

Signature: M. Merdan Date: 6/11/2013

Annual Course Report (Academic Year 2011-2012)

A- Basic Information

1- Title and code: Digital Signal Processing, E051

2- Program(s) on which this course is given: Manufacturing Engineering and Production Technology

3- Year/Level of program: Fourth Year Second Semester

4- Credit hours

Credit Lectures Tutorial 2 hrs 3 hrs 3 hrs Practical 1 hr

5- Course coordinator: Prof. Dr. Mostafa Afifi

6- External evaluator: Non

B- Statistical Information

No. of students attending the course: No. of students completing the course:

Results:

	No.	%
Passed	89	97.8
Failed	2	2.2

Grading of successful students:				
Grade	No.	%		
Excellent	7	7.69		
Very Good	17	18.68		

17

48

95

91

No.

No.

Good

Pass

100

95.8

18.68

52.75

%

%

C- Professional Information

1 - Course teaching

Tonic		Total hours	
Topic	Plan.	Actual	
Introduction, signal processing requirements for mechanics	3	3	
Signal Processing, Analog and Digital Signal advantages	5	4	
Amplifiers, Diodes, JBTs, FETs and Op Amps	8	8	
Frequency Response and Feed Back in Amplifiers.	6	5	
Fourier Series and Fourier Transforms	5	5	
Low and High Pass Filters using RC and RL circuits	4	4	
* Band Pass and Band Stop Filters using RLC circuits	4	4	Pr
* Signal Generators and Power Supplies	6	6	<u>으</u>
 Wienbridge, RF Hartly Oscillators, Function Generators, Pulse Generators and Power Supplies 	8	8	Prof. Dr. Mostafa Afif
Logic Gates and Switching Circuits	4	4	sta
Boolean Algebra	4	4	ai >
Switching Circuits and DeMorgans Theorems	4	4	fifi
Combinational Logic and Arithmetic Circuits	6	5	
Flip Flops ant timing Circuits	5	4	
Micro Computers and Micro-Controllers	4	4	
Virtual Machines and LabVIEW Processing	4	3	
Digital Filtering and Graphical Coding Analysis	6	5	
Total hours	86	80	

Reasons in detail for not teaching any topic: Non If any topics were taught which are not specified, give reasons in detail: Non

Topics taught as a percentage of the content specified: >90 % 85-90 % 90%

1 2 1 2012-2013 **Program report**

Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a10	b1 to b5	c1 to c4	d1 to d3

2- Teaching and learning methods:

Lectures: Lecture, discussions, tutorials, problem solving and modeling
Practical training/ laboratory: Practical Training and experimental measurements in circuit Lab &

Seminar/Workshop: LabVIEW

Class activity Numerical exercises; solution of problems by computer and data show, using

computer packages; MATLAB, and LabVIEW.

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments and reports

If teaching and learning methods were used other than those specified, give reasons:

Non

3- Student assessment:

Method of assessment	Points	%
Written examination		65
Oral examination		0
Practical/laboratory work		15
Other assignments/class work		10
Mid-Term Exam		10
Total		100

Members of examination committee: Prof. Dr. Mostafa AFIFI

Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	Yes	
Adequate to some extent		
Inadequate		

List any inadequacies: Non

5- Administrative constraints (List any difficulties encountered)

➤ Non

6- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	it is recommended to solve more examples in the exercises	Only a balanced proportion of numerical exercises are solved in the class, the rest are presented as solved assignments
(b)	The assignments are corrected giving detailed correct answers	The correct results of problems solutions are presented during the exercises periods
(c)	It is recommended to announce the points of mid- term, rather than the grades.	The form and timing of declaration of year work evaluation results follow the Academy policy.

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	

8- Written Exam Evaluation

- ➤ Low success percentage in question 3 and 4 of the final written exam implies the need to revise the teaching and learning activity of the advanced system analysis and adding more exercises, assignments reports and guizzes.
- The whole exam result shows normal weakness in writing and English language level.

9- Course enhancement:

Progress on actions identified in the previous year's action plan. State whether or not completed and give reaso for any non-completion:

Actions required	Planned Completion date	Accomplishment
(b) Add more experiments to	December 2012	More is planned for May 2013
Electronics Laboratory		

10- Action plan for academic year 2013 - 2014

Actions required	Completion date	Person responsible
1. adding more exercises, assignments reports	December 2012	Prof. Dr. Mostafa AFIFI
and quizzes.		

Course coordinator: Prof. Dr Mostafa Afifi

Signature:

Date: September 24, 2012

Annual Course Report (Academic Year 2011-2012)

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Δ-	Rag	Sic	Info	rma	tion

- 1- Title and code: Summer Training, M400
- 2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
- **3- Year/Level of program:** Fourth Year Second Semester
- 4- Unit hour's summer trainings during first, second, and third years (2 weeks each)
- 5- Names of lecturers contributing to the delivery of the course

Dr Bakkar Elsarnagawy

Course coordinator Dr Bakkar Elsarnagawy

External evaluator None

B- Statistical Information

No. of students attending the course:			% 100
No. of students completing the course:	No.	95	% 100

Results:	No.	%	Grading of successful students:		
Passed	95	100		No.	%
Failed	0	0	Excellent	46	48.42
			Very Good	28	29.47
			Good	_	_

Good - - Pass 21 22.11

C- Professional Information

1 - Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
Practicing the actual production cycle			48
Total hours			48

Topics taught as a percenta	ge of the content specific	ed:	
>90 % 100	70-90 %	<70%	
Reasons in detail for not te	aching any topic Non		

If any topics were taught which are not specified, give reasons in detail Non

2- Teaching and learning methods:

Practical training / laboratory:

Practical training during summ

Practical training/laboratory: Practical training during summer in industrial companies

Seminar/Workshop: After finishing the training

Class activity: None
Case Study: None

Other assignments/homework: None

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment Percentage of total

Written examination

Attendance

Modern Academy for Engineering & Technology Manufacturing Engineering & Production Technology Dept.

2012-2013

Practical training & delivering a report

100 %

Other assignments/class work

Mid-Term Exam

Total 100 %

Members of examination committee: All staff members of the dept.

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

Ye

List any inadequacies: None

5- Administrative constraints

List any difficulties encountered

None

6- Student evaluation of the course:

List any criticisms Response of course team

None

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

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required Planned Completion date Accomplishment
Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2011-2012

Actions required Completion date Person responsible

1. None

Course coordinator: Prof. Dr. Abdel Nasser Zayed

Signature:

Date: 1/11/2012

Annual Course Report (Academic Year 2011-2012)

A- Basic Information

- 1- Title and code: Material Technology II, M462
- 2- Program(s) on which this course is given: Manufacturing Eng. & Production Technology
- **3- Year/Level of program:** 4th. Year
- 4- Unit hours Lectures 3hr Tutorial 1 hr Practical 2 hr Total 6 hrs
- 5- Names of lecturers contributing to the delivery of the course

Dr. Bakr Rabieh

Course coordinator: Dr. Bakr Rabieh

External evaluator

B- Statistical Information

No. of students attending the course: No. 95 % 100 No. of students completing the course: No. 93 % 97.9

Results:

	No.	%	Grading of succes	sful student	is:
Passed	93	93.54		No.	%
Failed	6	6.46	Excellent	20	21.51
			Very Good	23	24.73
			Good	16	17.2
			Pass	28	30.11

C- Professional Information

1 - COURSE TEACHING

Topic Actually Taught	Lecture hours	Lecturer
Engineering materials (Types and applications)	7	
Materials selections	5	
Quantitative material selection	4	
 Concept of cost per unit property 	4	
 Case study of metal substitutions 	4	
Materialsfor low temperature applications	5	ieh
Composite materials	6	Rab
Raw materials for part fabrications	8	Or. Bakr Rabieh
Product development & Product life cycle	4	Ba
design for Manufacturing	11	ت
Manufacturing techniques	4	
Composite manufacturing	8	
Joining of Composite	8	
Recycling of composites	4	
New trends in material technology	8	
Total hours	90	

Topics taught as a	percentage of the	content specified:

>90 % 100 70-90 % < 70% ...

Reasons in detail for not teaching any topic None

If any topics were taught which are not specified, give reasons in detail all of the missed teaching hours were substituted.

2- TEACHING AND LEARNING METHODS:

Lectures: Classical lecturing using the white board and computer supported learning

Practical training/ laboratory: Some samples of composite materials were prepared and tested

in material lab.

Seminar/Workshop: None

Class activity: Preparing and testing of composite material samples

Case Study: None

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- STUDENT ASSESSMENT:

Method of assessment Percentage of total

Written examination 66.7 %

Oral examination ---Practical/laboratory work 13.3 %
Other assignments/class work 6.7%

Mid-Term Exam

Total

13.3 %
100 %

Members of examination committee Dr. Bakr M. Rabieh

Role of external evaluator None

4- FACILITIES AND TEACHING MATERIALS:

Totally adequate

Adequate to some extent

Inadequate

Yes

.....

List any inadequacies

5- ADMINISTRATIVE CONSTRAINTS

List any difficulties encountered

6- STUDENT EVALUATION OF THE COURSE

Response of course team

List any criticisms

7- COMMENTS FROM EXTERNAL EVALUATOR(S)

Response of course team

Non

8- COURSE ENHANCEMENT

Progress on actions identified in the previous year's action plan: No previous comments **Action State whether or not completed and give reasons for any non-completion**Non

9- ACTION PLAN FOR ACADEMIC YEAR 2009 – 2010

Actions required Completion date Person responsible

Non

Course coordinator: Dr. Bakr M. Rabieh

Signature:

Date: 1/10/2012

Annual Course Report Academic year 2011-2012

A- Basic Information

- 1- Title and code: (M472) Computer Aided Design
- 2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
- **3- Year/Level of program:** 4th. Year
- **4- Unit hours** Lectures 3hr Tutorial

Practical 4 hr Total 7 hrs

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

Prof. Abdel-Nasser Zayed

Course coordinator: Prof. Abdel-Nasser Zayed

External evaluator

B- Statistical Information

No. of students attending the course:	No. 95	% <mark>100</mark> % 96
No. of students completing the course:	No. 91	% 96

Results:	No.	%	Grading of successful students:		
Passed	84	91.4		No.	%
Failed	7	8.6	Excellent	16	17.6
			Very Good	12	13.2
			Good	16	17.6
			Pass	40	43

C- Professional Information

1 – COURSE TEACHING

Topic Actually taught	No. of hours	Lecturer
CHAPTER 1: An Overview of Computer-Aided Design & Analysis	2	
C H A PTE R 2: Review of Numerical Techniques for CAD	4	sser
C H A PTE R 3 : Principles of Computer Graphics	12	Abdel-Nasser ayed
CHAPTER4: Computer Graphics and Design	8	Abdel
C H A P T E R 5: Introduction to Design Databases	4	'
C H A P T E R 6 : Overview of the Finite Element Method	8	 ت
C H A P T E R 7: Elastic Stress Analysis by the Finite Element Method	4	Prof.
C H A P T E R 8 : Design Optimization	3	
Total	45	

Topics taught as a percentage of the content specified:						
>90 %	100	70-90 %	<70%			
Reasons in detail for not teaching any topic None						

If any topics were taught which are not specified, give reasons in detailNone, all of the missed teaching hours were substituted, in addition to the seminars arranged during the students free day.

2- TEACHING AND LEARNING METHODS:

Lectures: Classical lecturing using the white board and computer supported learning

Practical training/ laboratory: Pro Eng Packages in Lab

Seminar/Workshop:

Two Seminars were arranged by the students:

(c) Computer graphics, Design (Pro/Engineer Mechanica)

(d) Computer graphics, Stress Analysis (Pro/Engineer Mechanica)

Class activity: Solid Modeling Graphics & Mechanica

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

Non

3- STUDENT ASSESSMENT:

Total

Method of assessment Percentage of total

Written examination

Oral examination

Practical/laboratory work

Other assignments/class work

Mid-Term Exam

66.7 %

13.3 %

13.3 %

Members of examination committee Prof. Abdel-Nasser Zayed

Role of external evaluator Non

4- FACILITIES AND TEACHING MATERIALS:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes

.....

Non

5- ADMINISTRATIVE CONSTRAINTS

List any difficulties encountered

6- STUDENT EVALUATION OF THE COURSE

Response of course team List any criticisms

7- COMMENTS FROM EXTERNAL EVALUATOR(S)

Response of course team

Non

8- COURSE ENHANCEMENT

Progress on actions identified in the previous year's action plan: No previous comments **Action State whether or not completed and give reasons for any non-completion**Non

9- ACTION PLAN FOR ACADEMIC YEAR 2012 - 2013

Actions required Completion date Person responsible

Non

Course coordinator: Prof. Abdel-Nasser Zayed

Signature:

Date: 1/10/2012

Annual Course Report Academic year 2011-2012

Λ_	Rac	I (Int∩r	mation
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- 1- Title and code: (M474) Machine Tool Design
- 2- Program(s) on which this course is given: Production Engineering and manufacturing Technology
- 3- Year/Level of program: 4th. Year
- 4- Unit hours

Lectures 4hrs

Tutorial 2hrs

Practical

Total 6 hrs

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

Prof. Dr. Ahmed Elsanabary

Course coordinator Prof. Dr. Ahmed Elsanabary

External evaluator

B- Statistical Information

No. of students attending the course:

No. 91

% 100

No. of students completing the course:

No. 91

% 100

Results:

	No.	%	Grading of success	Grading of successful students:		
Passed	65	71.44		No.	%	
Failed	26	28.56	Excellent	4	4.40	
			Very Good	3	3.30	
			Good	13	14.29	
			Pass	45	49.45	
			Failed	26	28.56	

C- Professional Information

1 - Course teaching

Topic Actually taught	Lecture hours	Tutorial hours	Lecturer
Introduction to Machine Tool Systems	4	2	
Chapter 1: Machine Tool Drives & Mechanisms	8	4	7 p ₀ _
Chapter 2: Regulation of Speed & Feed Rates	16	8	. Dr. Ahmed Sanabary
Chapter 3: Design of Machine Tool Structures	8	4	Dr. / Sana
Chapter 4: Design of Guide ways & Power Screws	12	6	Prof.
Chapter 5: Design of Spindles and Spindle Supports	8	4	
Chapter 6: Control Systems in Machine Tools	4	2	7
Total	60	30	90

Topics taught a	s a perce	entage of the content	specified	:	
>90 %	100	70-90 %		<70%	
Reasons in deta	ail for no	t teaching any topic	None		

If any topics were taught which are not specified, give reasons in detail None, all of the missed teaching hours were substituted, in addition to the seminars arranged during the students free day.

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and computer supported learning

Practical training/ laboratory:

Seminar/Workshop:

Two Seminars were arranged by the students:

- (a) Regulation of Speed & Feed Rates
- (b) Design of Spindle & Power Screws

Class activity: -

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Tools	Time schedule	Grading in points
Assignments and quizzes	weekly	20
Mid-Term Exam	sixth week	30
Final Written exam	Sixteenth Week	100
Total	150	

Members of examination committee

Dr. Nabil Gadallah

Role of external evaluator

None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes None

5- Administrative constraints

List any difficulties encountered

6- Student evaluation of the course:

Response of course team

List any criticisms

7- Comments from external evaluator(s):

None

Response of course team

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: No previous comments

Action State whether or not completed and give reasons for any non-completion

None

9- Action plan for academic year 2012 - 2013

Actions required Completion date

Completion date Person responsible

None None

Course coordinator: Prof. Dr. Ahmed El Sanabary

Signature:

Date: 3/08/2011

None

Annual Course Report Academic year 2011-2012

A- Basic Information

- 1- Title and code: (M482) Automatic Control
- 2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology BSc Program
- 3- Year/Level of program: Fourth Year/Second Semester
- 4- Unit hours Lectures 3 hrs Tutorial 2 hrs Practical 2 hr Total 7 hrs
- 5- Names of lecturers contributing to the delivery of the course:

Prof. Dr. M. Galal RABIE

Dr Metwally Hussein

Course coordinator: Prof. Dr. M. Galal RABIE

External evaluator: Non

B- Statistical Information

No. of students attending the course: No. 95 100 % No. of students completing the course: No. 92 96.8 %

Results:

% No. Grading of successful students: **Passed** 84 91.3 No. Failed 8 8.7 **Excellent** 9 9.78 9 Very Good 9.78 Good 8 8.7 Pass 58 63.04

C- Professional Information

1 - Course teaching

Topic -		l hours	Lecturer
		Actual	
Introduction, basic definitions and terminology	2	2	
Mathematical topics	8	4	
Transfer functions, definition and case studies	10	8	
 Block diagrams; conventions, block diagram algebra and reduction of block diagrams. 	4	5	Prof. Dr.
Signal flow graphs; definition, conventions and Mason's formula	2	2	M Galal
Time domain analysis			Rabie
Transient response of proportional, integrating and first order elements.	4	4	
Transient response of second order elements. Effect of location of roots of characteristic equation on the transient response	10	6	
System identification based of the transient response.	4	4	
 Instruments, sensors and controllers 	10	7	
 Level control 	4	4	
 Flow control 	4	4	
 Speed control 	4	4	
 Temperature control 	4	4	
 Robotic arm control 	4	4	
Frequency response			
Frequency response; Polar plot and Bode plots.	6	5	

System identification based of the transient and frequency			
responses.	4	5	
Accuracy of feedback systems; steady state error.	4	4	
• Stability of feedback systems; Routh-Herwitz and Nyquest stability			
criteria.	5	4	
Root locus analysis	2	2	
Compensation of control systems	4	4	
Design and tuning of P, PI and PID controllers	6	5	
Total hours	105	91	

Topics taught as a percentage of the content specified:						
>90) %	100	70-90 %		<70%	
Reasons in detail for not teaching any topic Non						
If any topic	s wer	e taught	which are not speci	ified, give r	easons in detail Nor	1

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a10	b1 to b5	c1 to c4	d1 to d3

2- Teaching and learning methods:

Lectures: Lecture, discussions, tutorials, problem solving and modeling

Practical training/ laboratory: Practical training and experimental measurements in Lab

Seminar/Workshop: Non

Class activity: Numerical exercises; solution of problems by computer and data show, using computer

packages; MATLAB, SIMULINK and CODAS.

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

Non

3- Student assessment:

Method of assessmentPercentage of totalWritten examination100 points = 66.7 %Oral examination----Practical/laboratory work20 points = 13.3%Other assignments/class work15 points = 10 %Mid-Term Exam15 points = 10 %

Total 150 points = 100 % Members of examination committee Dr. M. Galal RABIE and Dr. Metwally Hussein

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies:

Yes

.....

Nor

5- Administrative constraints

List any difficulties encountered Non

Modern Academy for Engineering & Technology Manufacturing Engineering & Production Technology Dept.

2012-2013

6- Student evaluation of the course: Response of course team

List any criticisms

Non

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

Non

The analysis of written exam results revealed the following weak points:

- * The exam level is convenient, considering the percentage of success and high grades.
- * Low success percentage in question 3 implies the need to revise the teaching and learning activity of the system frequency and time domain analysis and closed loop system precision
- * The whole exam result shows considerable weakness in report writing and organization in addition to the English language level and.
- 8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required Planned Completion date Accomplishment

1. Non

Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2011 – 2012

Actions required Completion date Person responsible

End of summer term 2011-1. adding more exercises, assignments reports Prof. M Galal Rabie

and quizzes 2012

Course coordinator:

Prof. Dr M. Galal RABIE

Signature:

Date: August 2, 2011

177 2012-2013 **Program report**

5th year Manufacturing Eng. & Production Tech.

NO.	Code	Course
1	M552	Operations Research
2	M561	Engineering Economy
3	M571	Computer Aided Manufacturing (CAM)
4	M573	Automation
5	M578	Hydraulic Power Systems
6	M580c	Elective I
7	M598	Report
8	B512	Laws and Regulations for Engineers
9	B572	Pollution and Society
10	M576	Computer Integrated Manufacturing (CIM)
11	M574	Quality Control
12	M580a	Elective II
13	M581	Advanced Manufacturing Processes
14	M599	Project 2

Annual Course Report 2012/2013

A- Basic Information

1- Title and code: *M552: Operations Research*

2- Program(s) on which this course is given: Manufacturing Eng. & Production Technology.

3- Year/Level of program: 5th year Manufacturing Technology / 1st term

4- Unit hours Lectures 2 hrs Tutorial 2hrs Practical 0 hrs Total 4hrs

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

Prof. Dr. M. Merdan

Course coordinator: Prof. Dr. M. Merdan

External evaluator: None

B- Statistical Information

No. of students attending the course: 92
No. of students completing the course: 91

Results:

	No.	%	Grading of successful students:			
Passed 82 90.1			-	No.	%	
Failed	9	9.9	Excellent	9	9.90	
			Very Good	19	20.90	
			Good	25	27.50	
			Pass	37	40.70	

C- Professional Information

1 – Course teaching

	Topic	Lecture hours	Tutorial hours	Practica I hours
1.	Introduction; Origins of Operations Research (OR), Nature and Phases of OR, and Impact of OR.	2	-	-
2.	Linear Programming (LP) – Graphical Solution; LP models, Common characteristics, Model formulation with single and double subscript variables. Graphical Solution of 2 variables LP problems; Solved Examples. Other Objective Function – Minimization.	6	4	-
3.	Solution of LP Problems Using Simplex Method; General form of the LP model, Possible Initial Basic Solution, Better basic solution. Other forms of the LP model; Objective function in the Minimization form – Big M Methodology, Maximize the quantity of products produced, Full utilization of all departments' production capacity in the plant.	8	8	-
4.	Assignment problem; Hungarian method. Problems with assignment problems	4	4	-
5.	Transportation problem; Mathematical model of the problem; Graphical Solution of the transportation problem, Algebraic Solution of Balanced Transportation Problem; Problem formulation, Initial solution: North-West Corner Method, Index Method, and Vogal's Approximation Method. Optimum Solution; Steppingstone Method, and Modified Distribution Index Method (MODI). Remarks on the transportation problems; Degenerate solution, Unbalanced Transportation Problem, and Objective function in the form of Maximization instead of Minimization	8	8	-

6.	the transportation problem, Algebraic Solution of Balanced Transportation Problem; Problem formulation, Initial solution: North-West Corner Method, Index Method, and Vogal's Approximation Method. Optimum Solution; Steppingstone Method, and Modified Distribution Index Method (MODI). Remarks on the transportation problems; Degenerate solution, Unbalanced Transportation Problem, and Objective function in the form of Maximization instead of Minimization	8	8
7.	Network Scheduling; Importance and network scheduling, Construction of a CPS Network, use of CPM to solve project management problems; Network construction, ESs determination by solving the network from R to L. LSs determination by solving the network from R to L. determination of the project completion time, and boundary times calculation and determination of the slacks of the non-critical activities.	2	4
8.		-	2
	Total	30	30
2	 Topics taught as a percentage of the content specified: >90 % 100 70-90 %	I	
	 Lectures: Classical lecturing using the white boar Practical training/ laboratory: None Seminar/Workshop: None Class activity: Solution of problems Case Study: None Other assignments/homework: Assignment report each 4 weeks If teaching and learning methods were used other than those specified, list an None 	_	าร:
4	- Student assessment: Method of assessment Written examination Oral examination Practical/laboratory work Other assignments/class work Mid-Term Exam Total Members of examination committee Role of external evaluator Percentage of to 70 % 70 % 10 % Prof. Dr. M. Merdan None	otal	
5	Facilities and teaching materials: Totally adequate Adequate to some extent Inadequate List any inadequacies		
6	- Administrative constraints List any difficulties encountered None		
7	7- Student evaluation of the course: List any criticisms None Response of co	urse team	

Modern Academy for Engineering & Technology Manufacturing Engineering & Production Technology Dept.

2012-2013

8- Comments from external evaluator(s):

Response of course team None

None

9- Course enhancement:

• Progress on actions identified in the previous year's action plan:

Action State whether or not completed and give reasons for any non-completion

10- Action plan for academic year 2012 – 2013

Actions required Completion date Person responsible None None None

Course coordinator: Prof. Dr. M. Merdan

Signature: M. Merdan Date: 6/11/2013

Annual Course Report 2012/2013

A- Basic Information

- 1- Title and code: (M561) Engineering Economics
- 2- Program(s) on which this course is given:
 - Manufacturing Engineering and Production Technology
 - Communication Engineering Technology
 - Computer Engineering Technology
- 3- Year/Level of program: Fifth Year (Man.Eng, Comm., Comp.)
- **4- Unit hours** Lectures 2 hrs. Tutorial 2 hrs. Practical Total 4 hrs.
- 5- Names of lecturers contributing to the delivery of the course

Dr. Abdelmagid A. Abdalla, Dr. Ahmad Sarhan Course coordinator Dr. Abdelmagid A. Abdalla

External evaluator: None

B- Statistical Information

No. of students attending the course: No. 92

No. of students completing the course: No. 89

% 100

96.7

Results: (Man. Eng.)

	No.	%	Grading of successful students:		
Passed	84	94.4		No.	%
Failed	5	5.6	Excellent	18	20.2
			Very Good	18	20.2
			Good	17	19.1
			Pass	31	34.8

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Cash Flow	4	Dr.
Compound Interest:	12	<u>a</u> , l
Time Value of Money	4	Abdalla
Nominal and Effective Interest	4	. Ab
Engineering Problem Analysis:	12	A bi ر
Depreciation	8	elmagid Sarhan
Tax effects	4	
Breakeven point & payback period	-	Abd nad
Total hours	48	Dr. Ahr

Topics taught as a percentage of the content specified:					
>90 %		70-90 %	80	<70%	

Reasons in detail for not teaching any topic The term actually was 13 weeks

If any topics were taught which are not specified, give reasons in detail

None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory: None

Seminar/Workshop: None

Class activity: Numerical exercises.

Case Study: None

Other assignments/homework: Weekly assignment

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment Percentage of total

Written examination 70 %

Oral examination ---
Practical/laboratory work ---
Other assignments/class work 10 %

Mid-Term Exam 20 %

Total 100 %

Members of examination committee Dr. Abdelmagid A. Abdalla,

Dr. Dr. Ahmad Sarhan

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes

.....

None

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

List any critisms	Response of course team		
- The lecturer assistant has different	- The lecturer assistant will be		
points of view concerning the topics	changed next year		
of the course			

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

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2012- 2013

Actions required	Completion date	Person responsible
Change of the lecturer assistant	September 2013	Dr. Abdelmagid A. Abdalla

Course coordinator: Dr. Abdelmagid A. Abdalla

Signature:

Date: 1/11/2013

Annual Course Report 2012/2013

A- Basic Information

- 1- Title and code: (M571) Computer Aided Manufacturing (CAM)
- 2- Program(s) on which this course is given: Production Engineering and manufacturing Technology
- 3- Year/Level of program: 5th Year
- 4- Unit hours Lectures 3 hrs Tutorial 1 hrs Practical 2 hr Total 6 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr. Atef Afifi

Course coordinator Prof. Dr. Atef Afifi

External evaluator

B- Statistical Information

No. of students attending the course:	No. 92	%	100
No. of students completing the course:	No. 90	%	100

Results:	No.	%	Grading of successful students:		
Passed	72	80	_	No.	%
Failed	17	18.8	Excellent	7	7.8
			Very Good	12	13.3
			Good	15	16.7
			Pass	39	43.3

C- Professional Information

1 - Course teaching

Case Study:

Topic	Lecture hours	Tutorial hours	Practical hours
Fundamentals of CAM	3		
Part programming using tool compensation (length and radius)	4	1	2
Canned cycles of CNC milling	6	2	4
Canned cycles of CNC turning	6	2	4
Subprogram techniques for CNC part programming	5	2	4
Introduction to computer Aided Part Programming	3	1	2
Computer Aided Part Programming of Milled parts	6	2	4
Computer Aided Part Programming of Turned parts	6	2	4
Computer Aided Process Planning	6	3	6
Total hours	45	15	30

Topics taug	ht as a percentage of the content specified:
>90	% 100 70-90 % <70%
Reasons in	detail for not teaching any topic Non
If any topics	s were taught which are not specified, give reasons in detail Non
2- Teaching and	learning methods:
Lectures:	Classical lecturing using the white board and computer supported learning
Practical tra	ining/ laboratory: Practical training and experimental measurements in Lab
Seminar/Wo	orkshop: Non
Class activi	ty: Numerical exercises; solution of problems by computer and data show, using computer
	programs; MATLAB, SIMULINK and CODAS.

Selected case studies

YYYY Program report 2012-2013

Other assignments/homework:

Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

Non

3- Student assessment:

Method of assessment Percentage of total

Oral examination ---Final examination 66.7 %
Practical 13.3 %
Other assignments/class work 10%
Mid-Term Exam 10%

Total 100

Members of examination committee Prof. Dr. Atef Afifi

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes

.....

Non

5- Administrative constraints

List any difficulties encountered

> Limitation of number of data show in the principal building

➤ Limitation of number of operating experiments in the laboratory

6- Student evaluation of the course:

List any criticisms Response of course team

1. Laboratory exercises are insufficient This insufficiency is due to occasional defect in some

experiments. More experiments will be added next year

2. Problems with the teaching assistant New teacher assistant will be engaged the next academic year.

in exercises

3. A proposal to extend the subject and

lecture it in two successive semesters

The actual content and number of lecturing hours are convenient now, considering the re-determined graduate profile

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

Prof. Dr. Atef Afifi

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None Action State whether or not completed and give reasons for any non-completion

Non

9- Action plan for academic year 2012- 2013

Actions required Completion date Person responsible

1. Provide more data show apparatuses

2. Put more experiments in function in the lab.

Signature:

Course coordinator:

Date: 25/4/2013

Annual Course Report For Academic year 2012/2013

A- Basic Information

1- Title and code: **Automation:** M573

2- Program(s) on which this course is given: Manufacturing Eng. And production Technology

3- Year/Level of program: 5th year Manufacturing Technology / 1st term

4- Unit hours Lectures: 4 hrs. Tutorial: 2hrs. Practical: 1hrs. Total: 7 hrs

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

Prof. Dr. A.M. Kohail

Course coordinator: Prof. Dr. A.M. Kohail

External evaluator: None

B- Statistical Information

No. of students attending the course: 92 No. of students completing the course: 90

Results:

	No.	%	Grading of successful students:		
Passed	89	98.88		No.	%
Failed	3	3.33	Excellent	19	21.1
			Very Good	13	14.4
			Good	21	23.3
			Pass	34	37.8

C- Professional Information

3. Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer
Automation economics	4			
Analysis of automated lines	10	4	-	Prof.
Line balancing	2	4	-	A.Kohail
Assembly lines	6	2	-	
CNC and robot applications	4	4	2	
Group technology	6	4	-	
FMS and prod. cells	4	2	-	
Linear feed-back control systems	2	2	1	
PLC applications	6	4	4	
Sensors types and applications in prod.lines	6	2	2	
Sequential control applications	6	2	3	
Applications for automatic filling systems	4	-	3	
Total hours	60	30	15	

•	Topics 1	t <u>aug</u> h	t as a percer	ıtag	e of the content speci	fied	:
	>90 %	95	70-90 %		<70%		

Reasons in detail for not teaching any topic: - reduced hours due to extra vacations

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory: Computer lab. with software

Seminar/Workshop: None

• Class activity: Solution of Problems

■ Case Study: None

Other assignments/homework:

Assignment report each 4 weeks

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Total

Method of assessment

Written examination

Oral examination

Practical/laboratory work

Other assignments/class work

Mid-Term Exam

Members of examination committee Prof. Dr. A.M.Kohail

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate
 Adequate to some extent
 Inadequate
 List any inadequacies

Yes
Yes
None

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

List any criticisms Response of course team
None None

150

.....

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

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2012-2013

Actions required Completion date Person responsible

None None

Course coordinator: Prof. Dr. A.M.Kohail

Signature:

Date: 1/4/2013

Annual Course Report For Academic year 2012/2013

A- Basic Information

- 1- Title and code: Hydraulic Power System: M578
- 2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology BSc Program
- 3- Year/Level of program: Fourth Year/Second Semester
- 4- Credit hours

Total 7hrs Lectures 3 hrs Tutorial 2 hrs Practical 2 hr 5- Names of lecturers contributing to the delivery of the course: Prof. Dr. M Galal Rabie

Prof. Dr. M Galal Rabie 6- Course coordinator:

7- External evaluator: Non

B- Statistical Information

No. of students attending the course: No. of students completing the course:

Results:

	No.	%
Passed	84	92.31
Failed	7	7.60

No.	91	94.6	%	
	•			
Grading of successful students:				
Grade	No.	(%	
Excellent	11	12.09		

11

20

42

100

12.09

21.98

46.15

%

No.

Very Good

Good

Pass

C- Professional Information

1 - Course teaching

Торіс		Total hours	
		Actual	Lecturers
Power systems, classification, operation, and comparison.	4	4	
Introduction to hydraulic power systems and standard symbols	10	6	
➤ Hydraulic fluids; properties and their effect on the system performance.	4	4	
➤ Hydraulic transmission lines and connectors	10	7	
➤ Hydraulic pumps:	4	4	
Classification and basic mathematical relations	4	4	
Gear pumps, vane pumps and piston pumps	4	4	<u>.o</u>
Fixed and variable displacement pumps and pump control	4	4	Prof. Dr. M Galal Rabie
➢ Control valves	4	4	<u>a</u>
Classification and basic design			Gal
Pressure control valves (direct/pilot operated); relief valves, pressure			Σ
reducers, sequence valves and accumulator charging valves	6	5	Ģ.
Directional control valves	4	5	rof.
Flow control valves	4	4	
Check valves	5	4	
Hydraulic actuators; cylinders, motors and rotary actuators	2	2	
> Accessories; accumulators, filters, reservoirs, pressure switches,etc	4	4]
> Small project; design and analysis of the hydraulic system for an			
industrial application. Analysis of the possible operational problems	6	5	
Total hours	105	91+12*	

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

- *One additional lecturing hour was added to the teaching time table, which compensated for the disturbance occurring due to the national situation.
- Reasons in detail for not teaching any topic: Non
- If any topics were taught which are not specified, give reasons in detail: Non

Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a6	b1 to b3	c1 to c5	d1 to d4

2- Teaching and learning methods:

lecture, presentations & movies, discussions & seminars, tutorials, problem solving and self-learning, modeling If teaching and learning methods were used other than those specified, give reasons:

Seminar/Workshop:

The following are two seminars arranged by 8 students and 13 Technical Reports by 66 students: **Seminars**

No.	Title	Number of students
1	Using Automation Studio in hydraulic System Design	4
3	Reading data sheets of hydraulic elements	4

Technical Reports

SN	Title	No. of students
1.	Hydraulic power educational and training sites on the internet	1
2.	Possible applications of hydraulic power systems	2
3.	Roto-dynamic pumps	2
4.	Displacement pumps	3
5.	Control valves, general	3
6.	Pressure control valves	3
7.	Flow rate control valves	2
8.	Directional control calves	3
9.	Check valves and accessories	2
10.	Hydraulic cylinders	3
11.	Hydraulic Motors	5
12.	Hydraulic systems of mobile equipment	1
13.	Hydraulic systems of industrial machines	3

3- Student assessment:

Tools	To measure the content of	Time schedule	Grading	%
Mid-Term Exam	a1 to a6, b1 to b3 and c1 to c4	sixth week	15	10
Term papers, quizzes	a1 to a5, b1 to b3, c1, c2 and c4 and d1 to	Bi-weekly	15	10
and seminars	d4			
Practical exams	a3, c1 and c5	Fifteenth week	20	13.3
Written exam	a1 to a6, b1 to b3 and c1 to c4 and d2	Sixteenth week	100	66.7
		Total	150	100

Members of examination committee: Dr. M. Galal RABIE and Dr. Abdelmegid Abdellatif

Role of external evaluator:

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

140 2012-2013 **Program report**

5- Administrative constraints (List any difficulties encountered)

➤ Non

6- Student evaluation of the course:

	List any criticisms	Response of course team	
(a)	It is recommended to avoid giving two consequent lectures.	The lectured will be separated in the future semester's	
(b)	More Numerical exercises are required for better practice and understanding	r More exercises and examinations collections will handed to the students.	

7- Comments from external evaluator(s):

_	······································					
		Comment	Response of course team			
	(a)	Non				

8- Written Exam Evaluation

- a) The exam level is practically convenient, considering the percentage of success.
- b) High success in Questions 1 and 2 indicate good understanding of the course fundamentals. It may be attributed to the continuous revision of these topics during the semester, as they are lectured at the semester beginning.
- c) Low success percentage in question 3 implies the need to revise the teaching and learning activity topics lectured at the semester last weeks. Moreover it is necessary to develop new plans to encourage the students, or oblige them, to attend the last term activities considering the low attendance (53% only in the 11th week as shown by the following figure).
- d) Low success percentage in question 4 may be attributed to a problem of the majority of students with English language.
- e) The whole exam result shows considerable weakness hand sketching and in report writing and English language level. It is recommended to search for solutions to these persisting problems.

9- Course enhancement:

Progress on actions identified in the previous year's action plan. State whether or not completed and give reaso for any non-completion:

Actions required	Planned Completion date	Accomplishment
Non		

9- Action plan for academic year 2013 - 2014

Actions required	Completion date	Person responsible
Avoid planning two consequent lectures.	September 2013	Department chairman
Add more numerical exercises for better	September 2013	Prof. Dr M Galal Rabie
practice and understanding		

Course coordinator: Prof. Dr M Galal Rabie

Signature:

Date: September 24, 2013

Annual Course Report 2012/ 2013

A- Basic Information

- 1- Title and code: M580: Production Planning & Control
- 2- Program(s) on which this course is given: Manufacture Eng. & Production Technology.
- 3- Year/Level of program: 5th year Manufacturing technology / 1st term
- 4- Unit hours Lectures 2 hrs Tutorial 2 hrs Practical --- Total 4 hrs
- 5- Names of lecturers contributing to the delivery of the course: Prof. Dr. M. Merdan

Course coordinator: Prof. Dr. M. Merdan

External evaluator: None

B- Statistical Information

No. of students attending the course: 92 100% No. of students completing the course: 91 99%

Results:

% Grading of successful students: No. **Passed** 90 98.90 % No. **Failed Excellent** 15 16.50 1 1.10 Very Good 22 34.20 Good 27 29.70 Pass 26 28.60

C- Professional Information

1 - Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer
Functions within business organizations, management processes, productivity, competitiveness, and strategy	2	2		u
Forecasting techniques, seasonality, accuracy, and control	4	4		rda
Aggregate planning, and materials requirement plan (MRP),	4	4		M. Merdan
Assignment and manufacture scheduling techniques,	4	4		∑.
Work systems design,	4	4		٦.
Choice of site location, facilities selection and layout techniques.	4	4		Prof.
Quality definitions and control techniques,	4	4		Ф
Inventory management principles and controlling models,	4			
Total	30	30		

Topics taught as a percentage of the content specified:

>90 % 70-90 % 80% <70%

Reasons in detail for not teaching any topic
 None.

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

- Lectures: Classical lecturing using the white board
- Practical training/ laboratory: None
- Seminar/Workshop:
- Class activity: Solving managerial problems that might face operations managers in planning and control business organizations.
- Case Study: view case studies were been used

Modern Academy for Engineering & Technology Manufacturing Engineering & Production Technology Dept.

2012-2013

Other assignments/homework: solution of managerial problems were been assigned and given as home works

If teaching and learning methods were used other than those specified, list and give reasons:
None

3- Student assessment:

Method of assessment
 Written examination

Percentage of total

70%

Oral examination

Practical/laboratory work

Other assignments/class work

Mid-Term Exam

Total of examination committee Prof. Dr. M. Me

Members of examination committee Prof. Dr. M. Merdan Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered

Improper timing of teaching operations research (OR) course. OR course is a prerequisite to this course and should be taught by a gualified mathematician before teaching this course.

6- Student evaluation of the course:

List any criticisms Response of course team

Yes

None

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

None None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion:

Completed

9- Action plan for academic year 2013 - 2014

Actions required Completion date Person responsible

None None

Course coordinator: Prof. Dr. M. Merdan

Signature: M. Merdan Date: 6/11/2013

Annual Course Report 2012/2013

A- Basic Information

1- Title and code: (M598) Reports

2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology

3- Year/Level of program: Fifth Year Man. Eng. & Prod. Technology.

4- Unit hours Lectures 2 hrs Total 2 hrs

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

Dr. Elsayed kamar

Course coordinator Dr. Elsayed kamar

External evaluator: None

B- Statistical Information

No. of students attending the course:	No. 9		% 1	
No. of students completing the course:	No. 9	00	% 9	8

Results:

	No.	%	Grading of successful stude		
Passed	89	98.9		No.	%
Failed	1	1.1	Excellent	12	13.5
			Very Good	16	18.0
			Good	21	23.6
			Pass	40	44.9

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Introduction	2	
Report	4	ar
Typing instruction	4	kamar
References	4	
Writing common engineering documents	4	Elsayed
Curriculum vitae (CV) and resume	4	Dr. E
Graduation projects	6	
Total hours	28	1

Topics	taught as a	nercentage	of the	content s	necified:
Opics	taugiit as a	percentage	or the	COTILCTIC 3	pecilica.

Reasons in detail for not teaching any topic. The term actually was 12 weeks as during the last three weeks practical exams and revisions were carried out.

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods: **Lectures:** Classical lecturing using the white board **Practical training/laboratory:** None Seminar/Workshop: Class activity: Case Study: None Other assignments/homework: Writing a report and a resume If teaching and learning methods were used other than those specified, list and give reasons: 3- Student assessment: Method of assessment Percentage of total Written examination **Oral examination** Practical/laboratory work Other assignments/class work **Total** 100 % Members of examination committee Dr. Elsayed kamar **Role of external evaluator** None 4- Facilities and teaching materials: **Totally adequate** Adequate to some extent Inadequate List any inadequacies 5- Administrative constraints List any difficulties encountered None 6- Student evaluation of the course: List any criticisms Response of course team None 7- Comments from external evaluator(s): Response of course team None 8- Course enhancement: Progress on actions identified in the previous year's action plan: None Action State whether or not completed and give reasons for any non-completion None 9- Action plan for academic year 2013 - 2014 **Actions required** Completion date Person responsible None **Course coordinator:** Dr. Elsayed kamar Signature:

NA: Program report 2012-2013

1/8/2013

Date:

A- Basic Information

- 1. Title and code: (B512) Laws and Regulation for Engineers
- 2- Program(s) on which this course is given: Man. Eng. & Prod. Tech. Dept.
- 3- Year/Level of program: 5 th year, 2 nd Term
- 4- Unit hours Lectures 3 hrs Tutorial Practical Total 3 hrs
- 5- Names of lecturers contributing to the delivery of the course Course coordinator Prof. Dr. Shaban Ragab Gouda.

External evaluator:- Non

B- Statistical Information

No. of students attending the course: No. 92 % 100 No. of students completing the course: No. 91 % 97.20

Results:

	No.	%	Grading of successful stud		lents:	
Passed	89	97.8	-	No.	%	
Failed	2	2.2	Excellent	19	20.9	
			Very Good	25	27.5	
			Good	21	23.1	
			Pass	24	26.4	

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
مصطلحات ومفاهيم قانونيه •	٥	
التشريعات الصناعيه المصريه •	٥	
قوانين وتشريعات اعمال البناء والتخطيط العمراني •	٥	Gouda
قوانين وتشريعات بيئيه لحمايه البيئه المصريه •	٥	
المناقصات والعطاءات •	٥	S.R.
قانون تنظيم المناقصات والمزايدات •	٥	Dr> 9
العقود الهنديه المحليه •	٥	f. D
العقود الهندسيه الدوليه •	٥	Prof.
المطالبات والتحكيم •	٥	
Total hours	45	

Topics taught a	is a pe	ercentage of	the co	ntent specified:	
>90 %	$\sqrt{}$	70-90 %	-	<70%	-
Reasons in detail for not teaching any topic: Non					

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board, projectors and data show

Practical training/ laboratory: Non

Seminar/Workshop: Non

Class activity: Some Assignments

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments

Percentage of total

70 %

If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment:

Method of assessment

Written examination
Oral examination

Practical/laboratory work
Other assignments/class work

Mid-Term Exam

Total 100 %

Members of examination committee Prof. Dr. S. R. Gouda

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered

▶ Non

6- Student evaluation of the course: Response of course team

Non Non

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

Non Non

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Prof. Dr S. R. Gouda

Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2011- 2012

Actions required Completion date Person responsible Non Nov.2012 Non

Non

Signature: Date: Nov.2012

Course coordinator:

Λ_	Racic	Inform	ation
Α-	Dasic	1111()[11	iauon

1- Title and code: (B572) Pollution and Society.
2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Technology
3- Year/Level of program: Fifth Year (Man. E)
4- Unit hours: Lectures 2 hrs Tutorial Practical - Total 2 hrs
5- Names of lecturers contributing to the delivery of the course
Dr. Shaaban R. Gouda
Course coordinator Dr. Shaaban R. Gouda

B- Statistical Information

External evaluator: None

No. of students attending the course: No.		% 100
No. of students completing the course: No.	90	% 97.8
Results:		

	No.	%	Grading of successful students:		
Passed	90	100		No.	%
Failed	0	0	Excellent	38	42.2
			Very Good	23	25.6
			Good	17	18.9
			Pass	11	12.2

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
The concept of ecosystem	4	
 Population growth and environment. 	4	
Air pollution	5	
Water Pollution	3	da
Noise pollution	4	Gouda
Solid wastes	4	
Environmental Impact assessment and the Egypt law	4	an
No.		Shaaban
Final revision	2	Sha
Total hours	30	٦.

	Total hours	30	Dr		
Topics taught as a percentage of the content specified: >90 % 100 70-90 % <70% Reasons in detail for not teaching any topicNone If any topics were taught which are not specified, give reasons in detail None 2- Teaching and learning methods:					
	Classical lecturing using the white board				
Practical training/ laboratory: None					
Seminar/Workshop: Seminars in some topics					

Modern Academy for Engineering & Technology Manufacturing Engineering & Production Technology Dept.

2012-2013

Class activity: Some assignments.

Case Study: Selected case studies

Other assignments/homework: Bi-Weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment Percentage of total

Written examination 70 %

Oral examination ---
Practical/laboratory work ---
Other assignments/class work 10 %

Mid-Term Exam 20 %

Total 100 %

Members of examination committee Dr. Shaaban Ragab Gouda,

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes

.....

None

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

List any critisms	Response of course team
- None	- None

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

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2013-2014

Actions required Completion date Person responsible
None None None

Course coordinator: Dr. Shaaban R. Gouda

Signature:

Date: 1/11/2013

A- Basic Information

- 1- Title and code: (M576) Computer Integrated Manufacturing
- 2- Program(s) on which this course is given: Production Engineering and manufacturing Technology
- 3- Year/Level of program: 5th Year
- Lectures 3 hrs Tutorial 2 hrs 4- Unit hours Practical 2 hr Total 7 hrs
- 5- Names of lecturers contributing to the delivery of the course

Prof. Dr. Atef Afifi

Course coordinator Prof. Dr. Atef Afifi

External evaluator

B- Statistical Information

No. of students attending the course:	No. 92	% 100
No. of students completing the course:	No. 90	% 100
Docultor		

	No.	%	Grading of succes	sful students	S:
Passed	85	94.4	_	No.	%
Failed	5	5.5	Excellent	14	15.6
			Very Good	17	18.9
			Good	21	23.3
			Pass	33	36.7

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer
Fundamentals of CIM	2	
Material Handling Systems	8	
Automatic Guided vehicles	6	.; <u>;</u> ≣
Robotics	18	Prof. Dr. Atef Afifi
Flexible Manufacturing systems	10	Pro Ate
Adaptive control of manufacturing systems (FMS)	6	
On-Line Monitoring	6	
Just-In-Time (JIT)	6	
Direct Numerical Control (DNC)	2	Dr. Afifi
Part programming using different controller	16	Prof. Dr. Atef Afifi
Computer aided part programming	18	ĄĀ
Total hours	98	

>90 Reasons in	ht as a percentage % [100] detail for not teach s were taught whic	70-90 % ning any topic	Non	<70% sons in detailNo	
2- Teaching and	learning methods	:			
Lectures:	Classical lecturing	using the white	board and con	nputer supported	learning
Practical tra	ining/ laboratory:	Practical training	and experime	ntal measureme	nts in Lab

Modern Academy for Engineering & Technology Manufacturing Engineering & Production Technology Dept.

2012-2013

Seminar/Workshop: Non

Class activity:

Numerical exercises; solution of problems by computer and data show, using

computer programs; MATLAB, SIMULINK and CODAS.

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

Non

3- Student assessment:

Method of assessment Percentage of total

Oral examination ---Final examination 66.7 %

Practical 13.3 %

Other assignments/class work 10%

Mid-Term Exam 10%

Total

Members of examination committee

Prof. Dr. Atef Afifi

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Yes

.....

Non

5- Administrative constraints

List any difficulties encountered

➤ Limitation of number of data show in the principal building

Limitation of number of operating experiments in the laboratory

6- Student evaluation of the course:

List any criticisms Response of course team

Laboratory exercises are insufficient
 Problems with the teaching
 Insufficiency is due to occasional defect in some experiments. More experiments will be added next year
 New teacher assistant will be engaged the next academic year.

assistant in exercises

3. A proposal to extend the subject and lecture it in two successive semesters

The actual content and number of lecturing hours are convenient now, considering the re-determined graduate profile

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

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None Action State whether or not completed and give reasons for any non-completion Non

Modern Academy for Engineering & Technology Manufacturing Engineering & Production Technology Dept.

2012-2013

9- Action plan for academic year 2013 - 2014

Actions required Completion date Person responsible

1. Provide more data show apparatuses

2. Put more experiments in function in the lab.

Course coordinator:

Prof. Dr. Atef Afifi

Signature:

Date: 25/7/2013

A- Basic Information

1- Title and code: (M574) Quali	ty Control			
2- Program(s) on which this cour	•	g Eng. And product	tion Technol	ogy
3- Year/Level of program: 5th year	r Manufacturing Technolog	gy / 2 nd term		
4- Unit hours Lectures: 2 hrs	Tutorial: 2hrs Prac	ctical: 2hrs	Total:	6 hrs
5- Names of lecturers contributing	ng to the delivery of the o	course:		
	Prof. Dr. A.M. Kohail			
Course coordinator:	Prof. Dr. A.MKohail			
External evaluator:	None			
istical Information				

B- Statistical Information

No. of students attending the course: 92 No. of students completing the course: 91

Results:

	No.	%	Grading of successful stud	ents:	
Passed	80	87.9	· ·	No.	%
Failed	11	12.1	Excellent	18	19.8
			Very Good	18	19.8
			Good	13	14.3
			Pass	31	34 1

C- Professional Information

1- Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer
Introduction to quality	2			
Quality improvement techniques	2		2	
Quality improvement monitoring	2			
Quality cost	2		-	
 Fundamentals of statistics and quality 	2	4	2	
Control charts for variables	7	8	8	
Fundamentals of probability and quality	4	2	2	
Control charts for attributes	2	6	6	
Acceptance sampling plans	3	6	6	
Acceptance sampling systems	2	2	-	
Reliability and quality	2	2	-	
Computers and quality control	2	-	4	Prof.
Total hours	30	30	30	A.Kohail

- Total flours	30	30	
 Topics taught as a percentage of the content >90 % 92 70-90 %		rs due to extr	·a
2- Teaching and learning methods:			
 Lectures: 	g using the whi	te board	

Practical training/ laboratory: Computer lab. with software Seminar/Workshop: None Class activity: Solution of Problems Case Study: None Other assignments/homework: Assignment report each 4 weeks If teaching and learning methods were used other than those specified, list and give reasons: None 3- Student assessment: Percentage of total Method of assessment 40 Written examination **Oral examination** Practical/laboratory work Other assignments/class work 20 Mid-Term Exam Total 100 % Members of examination committee Prof. Dr. A.M.Kohail Role of external evaluator None 4- Facilities and teaching materials: Totally adequate Adequate to some extent Inadequate List any inadequacies 5- Administrative constraints List any difficulties encountered None 6- Student evaluation of the course: List any criticisms Response of course team None None 7- Comments from external evaluator(s): Response of course team None None 8- Course enhancement: Progress on actions identified in the previous year's action plan: None Action State whether or not completed and give reasons for any non-completion None 9- Action plan for academic year 2011 – 2012 **Actions required** Completion date Person responsible None None

Program report 2012-2013

Prof. Dr. A.M.Kohail

Course coordinator:

1/8/2012

Signature: Date: 1

A- Basic Information

2- Program(s) on which this course is given: Manufacturing Eng. And production Technology

3- Year/Level of program: 5th year Manufacturing Technology / 2nd term

4- Unit hours Lectures: 2 hrs Tutorial: 2hrs ---- Total: 4 hrs

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

Prof. Dr. Bakr M. Rabeeh

Course coordinator: Prof. Dr. Bakr M. Rabeeh

External evaluator: None

B- Statistical Information

No. of students attending the course: 92 No. of students completing the course: 90

Results: No. % Grading of successful students:

Passed 85 94.5 % **Failed** 23.3 5 5.5 Excellent 21 Very Good 13 14.4 Good 11 12.2

Pass 40 44.4

C- Professional Information

6- Course teaching

0- Course teaching	1	T	r
Topic	Lecture	Tutorial	Practical
Торіс	hours	hours	hours
Continuous and Discrete system simulation	2	-	
Development of simulation models	6	6	
Random number generation	4	4	
Model Validation, and analysis of model output	4	4	
Impact of nonlinearity and transient behavior	4	4	
Dynamic system analysis	4	4	
Application of simulation packages.	4	6	
Revision	2	2	
Total hours	30	30	

т	nnics	taught	as a	percentage	of the	content	specified:
	UDIUS	tauunt	as a	DCICCIIIauc	OI HIL	COLLCIL	SDCCIIICU.

70-90 % <70%

Reasons in detail for not teaching any topic: - reduced hours due to extra vacations

2- Teaching and learning methods:

Classical lecturing using the white board Lectures:

Practical training/ laboratory: None None Seminar/Workshop:

Class activity: Solution of Problems

Case Study: None

Other assignments/homework: Assignment report each 4 weeks

19. 2012-2013 **Program report**

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Method of assessment Percentage of total

Written examination

Oral examination

Practical/laboratory work

Other assignments/class work Mid-Term Exam

Total

Members of examination committee Prof. Dr. Bakr M. Rabeeh Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

List any criticisms Response of course team

70

None None

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

None None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2012 - 2013

Actions required Completion date Person responsible

None None

Prof. Dr. Bakr M. Rabeeh Course coordinator:

Signature:

191

Date: 1/8/2013

> 2012-2013 **Program report**

A- Basic Information

- 1- Title and code: M581: Advanced Manufacturing Processes
- 2- Program(s) on which this course is given: Manufacturing Eng. & Production Technology
- 3- Year/Level of program: 5th year Manufacturing Technology / 2nd term
- 4- Unit hours Lectures 3 hrs Tutorial 1hrs Practical 2 hrs Total 6hrs
- 5- Names of lecturers contributing to the delivery of the course:

Prof. Dr. A.M. Kohail

Course coordinator: Prof. Dr. A.M. Kohail

External evaluator: None

B- Statistical Information

No. of students attending the course: 92 100%

No. of students completing the course: 90 97.8%

Results:

	No.	Grading of success	ng of successful students:		
Passed	84	93.33		No.	%
Failed	6	6.66	Excellent	9	10
			Very Good	11	12.2
			Good	17	18.9
			Pass	47	52.2

C- Professional Information

1- Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
 Introduction to Non-Traditional Machining 	3	-	-
Electro-Discharge Machining (EDM)	10	3	26
Electro Chemical Machining (ECM)	6	3	-
Laser beam Machining (LBM)	6	1	2
Electron beam Machining (EBM)	3	-	-
Ultrasonic Machining (USM)	3	1	-
Abrasive jet Machining (AJM)	2	1	2
Water jet Machining (WJM)	4	2	-
Abrasive water jet Machining (AWJM)	3	2	-
Chemical Machining (CHM)	3	1	-
Plasma Arc Machining (PAM)	2	1	-
Total hours	45	15	30

•	Topics taught as a	percentage of the	content specified:

■ The lab is equipped only with EDM machine

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory: EDM machine

Seminar/Workshop: None

Class activity: Solution of problems

Case Study: Non-traditional machining methods

Other assignments/homework: Assignment report each 4 weeks

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment	Points of total
Written examination	100
Oral examination	
Practical/laboratory work	20
Other assignments/class work	_10
Mid-Term Exam	20
Total	150

Members of examination committee Prof. Dr.A.M.Kohail

Role of external evaluator None

4- Facilities and teaching materials:

■ Totally adequate Yes

Adequate to some extent

Inadequate

List any inadequaciesNone

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

List any criticisms Response of course team

None None

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

None None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion
 None

9- Action plan for academic year 2012 – 2013

Actions required Completion date Person responsible

None

Course coordinator: Prof. Dr. A.Kohail

Signature:

Date: 1/8/2013

A- Basic Information

1- Title and co	de: (M599) Grad	uation Project		
2- Program(s)	on which this co	urse is given: N	/lanufacturing	Eng. and Production Technology
3- Year/Level of program: Fifth Year Manufacturing Eng. & Prod. Tech,				
4- Unit hours	Lectures	Tutorial	Practical 2	Total 2 hrs First Term Total 4 hrs Second Term
	Lectures	Tutorial	Practical 4	Total 4 hrs Second Term
In addition to (2-3) weeks (5 days per week / six hours per day)after written final exams				
5- Names of le	cturers contribu	ting to the deliv	very of the co	urse
All the teaching Staff of the department				
Course coordinator Dr. Abdelmagid A. Abdalla				
Extern	al evaluator: No	ne		

B- Statistical Information

No. of students attending the course: No. 92 No. of students completing the course: No. 89

Results:					
	No.	%	Grading of successful students:		ts:
Passed	89	96.7		No.	%
Failed	3	3.3	Excellent	56	62.9
			Very Good	21	23.6
			Good	6	6.7
			Pass	6	6.7

C- Professional Information

1 - Course teaching

Topic Actually taught	No. of hours	Lecturer	
Collection & technical data	4)	ıt	
Collection & theoretical background	the	ner	
Design and Technological procedures	According to the subject of the project project All the teaching staff of the department		
Problem solving			
Realization & design	to the subject project g staff of the dep	e d	
Testing and inspection	su	f th	
Design & experiment	o the su project	ffo	
Writing technical report	o ti pri	sta	
Follow up & technical work		ing	
Assembly & components	i	ach	
Presenting the product data	orc	tea	
Evaluation & product efficiency	According the teachin		
Collection & technical data] ~	All	
Total Hours	108		

None

Topics taught as a percentage of the cont >90 % 100 70-90 % Reasons in detail for not teaching any top If any topics were taught which are not specific to the contact of the contact specific taught which are not specific to the contact specific taught which are not specific t	< 70 %
2- Teaching and learning methods:	
Seminar/Workshop: 3 seminars in Class activity: brain storming, & discussion Case Study:	ng & calibration addition to final presentation
	used other than those specified, list and give reasons
3- Student assessment:	
Method of assessment	Percentage of total
Written examination Oral examination Practical/laboratory work Other assignments/class work Mid-Term Exam	25% 25% 50 %
Total	100 %
Members of examination committee All r Role of external evaluator	nembers of the None
4- Facilities and teaching materials:	
Totally adequate Adequate to some extent Inadequate List any inadequacies	Yes None
5- Administrative constraints	
List any difficulties encountered	None
6- Student evaluation of the course:	
List any criticisms	Response of course team
 Neither the number of students was equal nor their grades in different projects. 	- Some actions will be considered to overcome these cases.
7- Comments from external evaluator(s):	Response of course team
None	
8- Course enhancement:	

Program report 2012-2013

Progress on actions identified in the previous year's action plan:

Action State whether or not completed and give reasons for any non-completion

9- Action plan for academic year 2013 – 2014

Actions required Completion date Person responsible

None

Course coordinator: Dr. Abdelmagid A. Abdalla

Signature:

Date: 1/11/2013