Manufacturing Engineering and Production Technology B.Sc.

Program Report

By-Law-2000

2014-2015

CONTENTS

Manufacturing Engineering and Production Technology

PROGRAM REPORT

September 2015

1. General

1.1 Basic Information

1- **Program title:** Manufacturing Engineering and Production Technology BSc Program.
2- **Program type:** Single.
3- **Department offering the program:** Manufacturing Engineering and Production Technology Department.
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. However, 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 teamwork 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 2011 - 2012 were 60 (students accepted in the Academy the academic year 2010-2011 were 560 students with a ratio 10.7 %
2-Ratio of students` attending the program in 2014-2015 to those of accepted in the Academy the academic year 2010-2011: 51/560 = 9.1 %
3-No. and percentage of students passing in each year for the students graduated in 2015

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

Year		Number of students	No of passing Students	Percentage of passing students
Second	2011-2012	60	41	68.33%
Third	2012-2013	48	41	85.42%
Fourth	2013-2014	51	42	82.35%
Fifth	2014-2015	51	43	84.31%

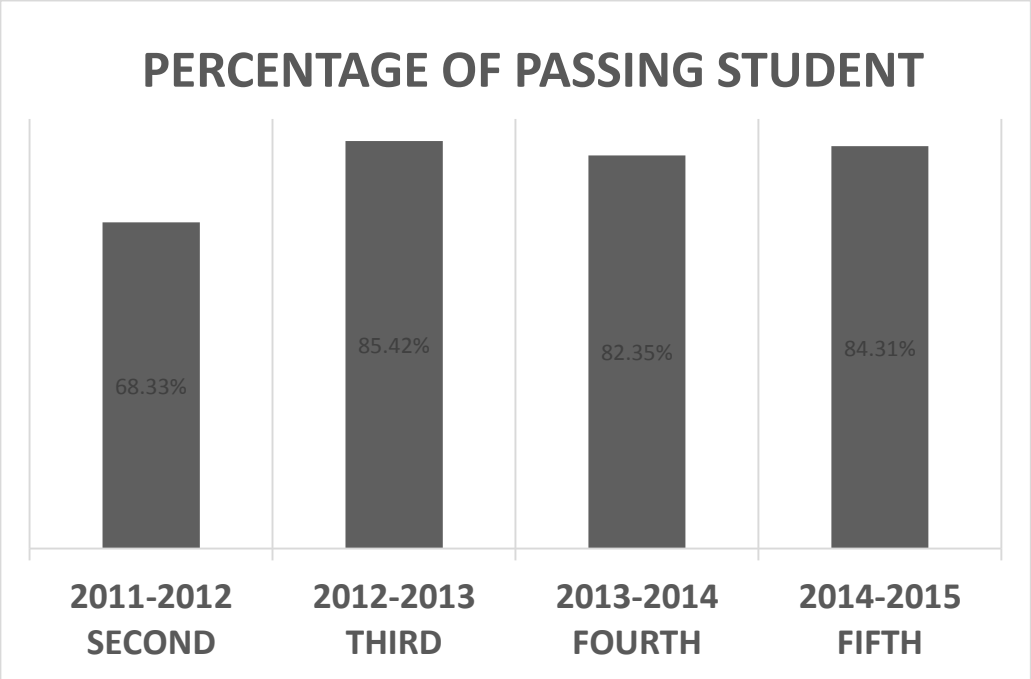

Figure (1): Ratio of students (graduated in 2013) passing in each year/level/semester

4-No. of students completing the program and as a percentage of those who started:
51 / 60 = 85%

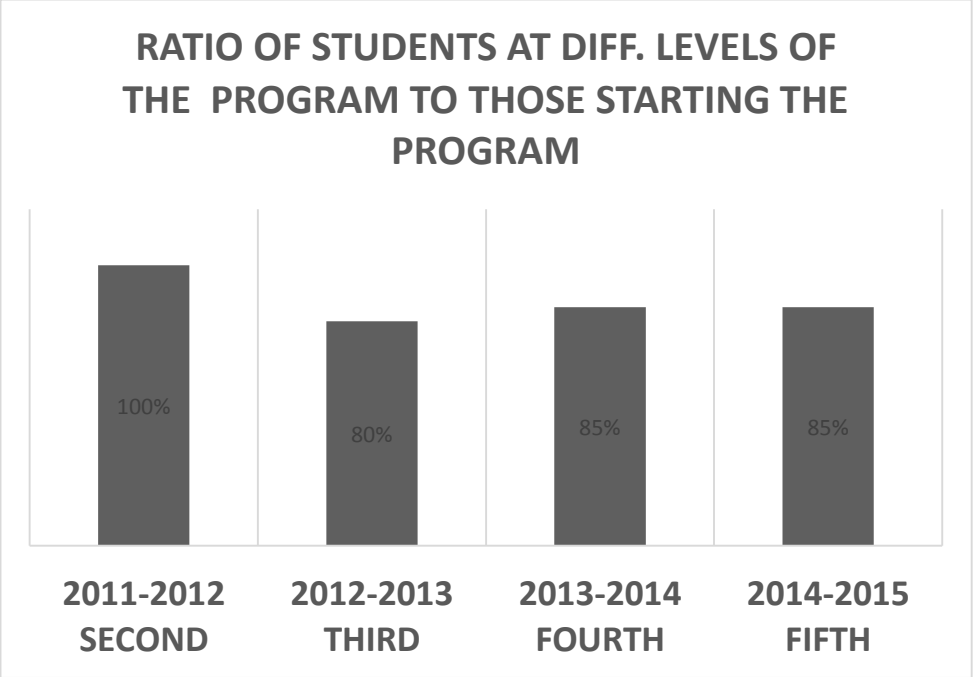

Figure (2): No. of students completing the program and as a percentage of those who started

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
2nd year 2011-2012	60	2	6	5	26	21
%	100%	3.33 %	10 %	8.33 %	43.33 %	35 %
3rd year 2012-2013	48	3	6	9	23	7
%	100%	6.25 %	12.5 %	18.75 %	47.93 %	14.58 %
4th year 2013-2014	51	1	6	10	25	9
%	100%	1.96 %	11.76 %	19.6 %	49.03 %	17.65 %
5th year 2014-2015	51	2	7	10	24	8
%	100%	3.92 %	13.73 %	19.6 %	47.05 %	15.68 %

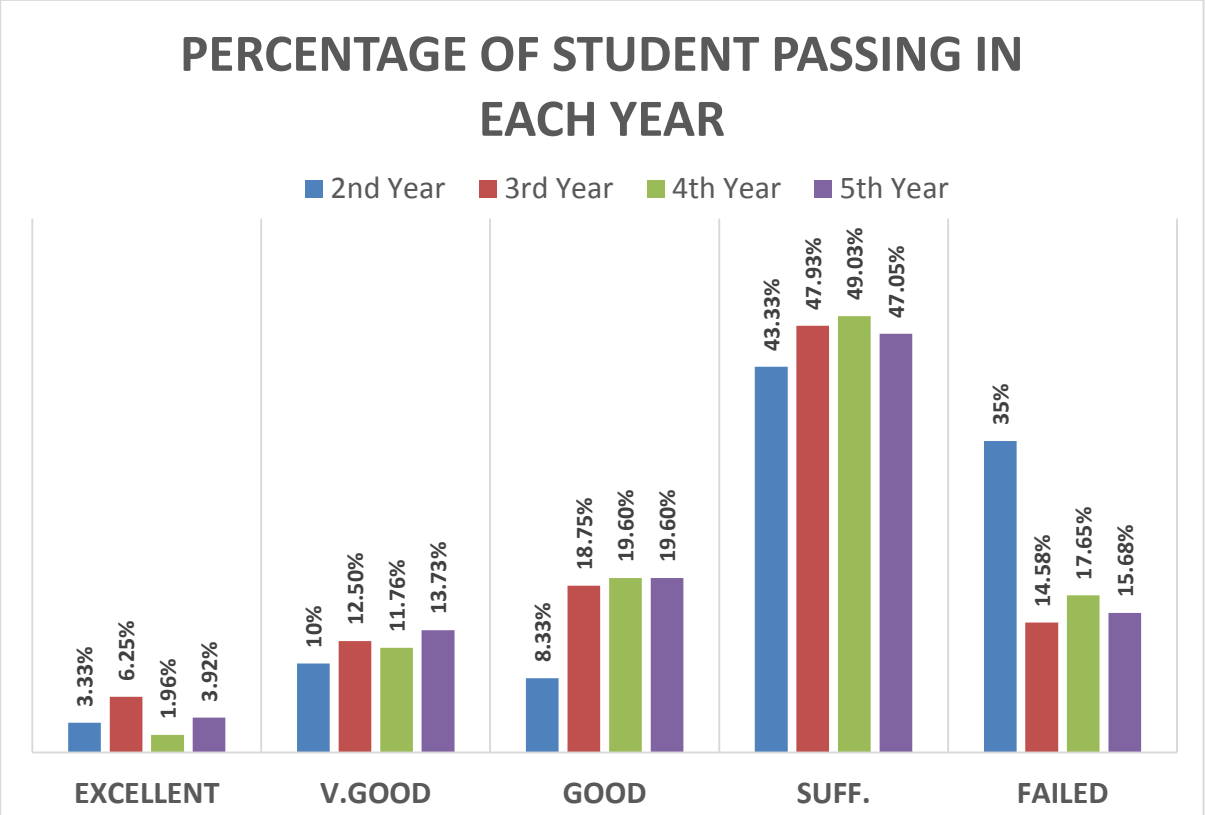

Figure (3): No. and percentage of students passing in each grade

Academic year	Number	Percentage
students joining the program on Sept 2014	51	100%
students completing the program at May 2015	29	56.8%
students completing the program at Nov 2015	14	27.45%
Total Number of students completing the program at 2015	43	84.3%

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

Year	Excellent		V. good		Good		Sufficient		failed	
	No.	%	No.	%	No.	%	No.	%	No.	%
5th year 2014-2015 (51 students)	2	3.92	7	13.73	10	19.6	24	47.05	8	15.68

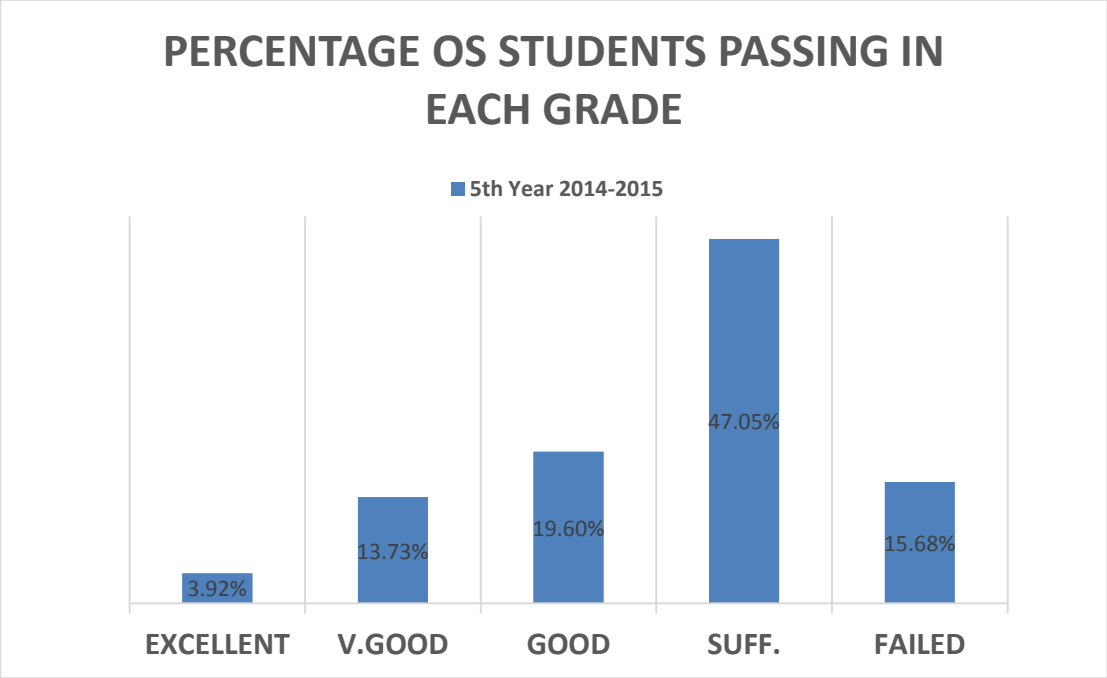

Figure (4): No. and percentage of students passing in each grade 5th year

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
		A	B	C	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 &Transferable Skills
		A	B	C	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 &Transferable Skills
		A	B	C	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 &Transferable Skills
		A	B	C	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) Addition of new design software packages and modernization of laboratories are a continuous trend for improving the educational process.
2) Full knowledge of relevant scientific methods and software packages of the design process of mechanical systems is emphasized.
3) 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.
4) Ergonomics and human needs as a user of space and his comfort is a priority.
5) Other important aspects of the educational system is totally regarded, that includes; implementation methods and techniques, computer related use.
6) Full knowledge of design process are taught, to provide methods of applying functional, environmental, social and economic aspects of design.
7) Development of research skills and teamwork 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 modern 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.

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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

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Graduated Students achievement through the program

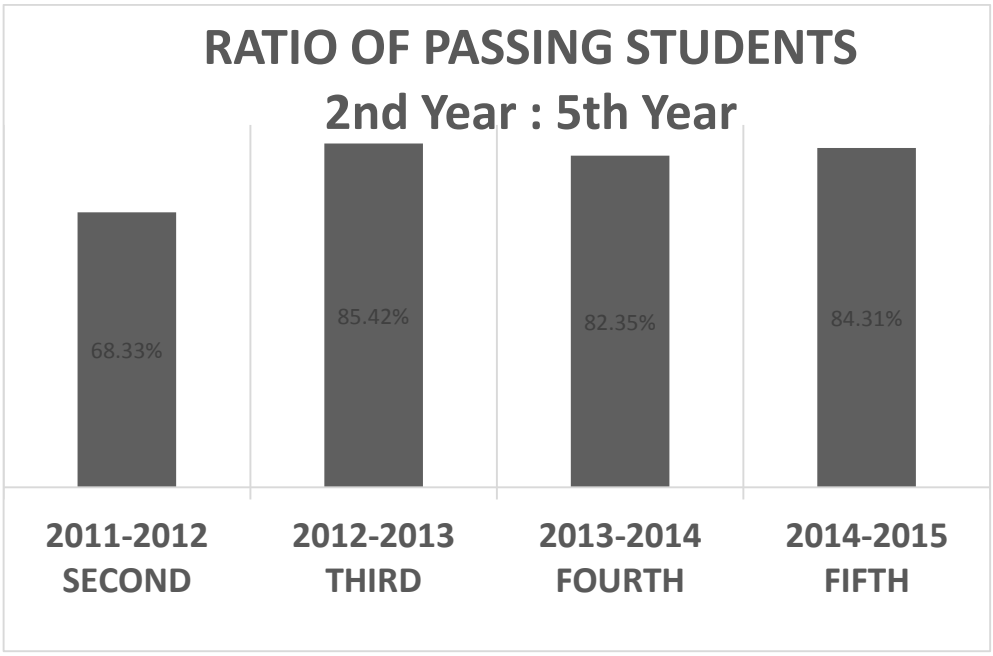

Figure (5): Graduated Students achievement through the program

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 once per term meeting with 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, academic research projects 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…). The counsellors, also, follow-up the complaints and 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 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 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 2014/2015. The department has a plan to increase the number of staff within the next 2 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
Choice of external reviewers to review the program specifications for credit hour system.	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) and staff member and assistants attended the courses
Complete the shortage in educational staff. (According to the plane one Staff member and 2 teaching assistants).	Administration of the Academy	One staff member has been added to the department and two teaching assistants

Holding the Fourth scientific conference of the academy	Administration of the academy	Not carried out.
The Third & Fourth scientific conferences of the department	The department	Done at /11/2014. & at / / 2015

5. Action plan

Action required	Person Responsible	Completion Date
Training of Teaching Assistants on CAMWORKS package	Department	Before September 2015
Specialized training courses for all staff and teaching assistants	Training Sector of the Academy	During Midterms of 2015/ 2016 semesters
Complete the shortage in educational staff. (According to the plane one Staff member and 2 teaching assistants).	Administration of the Academy	Academic year 2015-2016
Holding the Fifth scientific conference of the academy	Administration of the academy	After finishing the graduation projects.
Scientific the Fifth and Sixth conferences of the department	The department	Two conferences, one in each semester
Preparing the department laboratories to be moved to the new building	Administration & Department	January & February 2016

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 2010-2011

A- Basic Information

1- Title and code: B101: English Language (I)
2- Program(s) on which this course is given: General
3- Year/Level of program: First year / 1st Semester

4- Unit hours 2

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 None

B- Statistical Information

No. of students attending the course: **No.** 560 100%

No. of students completing the course: **No.** 515 **91.96%**

Results:

	No.	%
Passed	330	64.17
Failed	185	35.92

Grading of successful students:

	No.	%
Excellent	10	1.9
Very Good	29	5.6
Good	48	9.3
Pass	243	47.2

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Engineering – what is it all about?	6	Prof. Dr. Abdel – Hamid El-Khoreiby .
• Alfred Nobel	10	
• The infinitive and the -ing form	2	
• Subject verb agreement	8	
• Revision	4	
Total hours	**30**	

Topics taught as a percentage of the content 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: None

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, midterm 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 None

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

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: **Response of course team**

List any criticisms

None **None**

7- Comments from external evaluator(s):

External evaluator: 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 2010 – 2011

Actions required	**Completion date**	**Person responsible**
None		

Course coordinator: Abdel-Hamid Mohammed El-Khoreby
Signature:
Date: August 2011

Annual Course Report
(Academic Year 2010-2011)

A- Basic Information

1- Title and code: Math. I, Differential Calculus and Modern Algebra (B111)
2- Program(s) on which this course is given: All Programs
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, Prof. Dr. M. Khalifa
Course coordinator A. Prof. Dr. M. Khalifa
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.560** 100%
No. of students completing the course: **No.505** **90.17%**
Results:

	No.	%
Passed	392	77.6
Failed	113	22.4

Grading of successful students:

	No.	%
Excellent	29	5.7
Very Good	40	7.9
Good	40	7.9
Pass	283	56

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Function limit continuity	6	Prof. Dr. M. El-Maddah , Prof Dr. O. Elgayar, Prof Dr. Aly Essway,
• Derivatives	8	
• Inverse function and trigonometric function	6	
• Exponealial and Logarithmic function	6	
• Hyperpolic and inverse hyperbolic functions	7	
• Application of differential calculus	12	
• Sets	**6**	Prof. Dr. M. Khalifa
• Elements of Mathematical logic	**10**	
• Relation	**8**	
• Mappings	**9**	
• Algebraic structure – Groups - Rings Fields	**12**	
and applications		
• Total	**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. M. Elmaddah
A.Prof. Dr. M. Khalifa

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

List any criticisms	Response of course team
1. Problems with the teaching assistant in exercises	New teaching assistant will be engaged the next academic year.
2. A proposal to extend the subject and lectures 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):
External evaluator: None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: This is the first annual report
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		A.Prof. Dr. M. Khalifa

Course coordinator: A.Prof. Dr. M. Khalifa
Signature:
Date: August 2011

Annual Course Report
(Academic Year 2010-2011)

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 0hr Total 3hrs
5- Names of lecturers contributing to the delivery of the course
: Prof. Dr. Hassan Awad
Course coordinator: Prof. Dr. Hassan Awad
External evaluator: None

B- Statistical Information

No. of students attending the course: **No. 560** 100%
No. of students completing the course: **No. 502** **89.64%**
Results:

	No.	%
Passed	271	54
Failed	231	46

Grading of successful students:

	No.	%
Excellent	13	2.6
Very Good	12	2.4
Good	27	5.4
Pass	219	43.6

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Basic Concepts of statics	2	Prof. Dr. Hassan Awad Prof. Dr. Mahmoud El-Maddah
• *Resultant of concurrent forces in plane*		
• *Representation of force vector in space*	2	
• *Resultant of concurrent forces in space*		
• *Equilibrium of a particle (in plane and in space)*	4	
• *Different types of support in plane*		
• *Distributed leads*	2	
• *Equilibrium of rigid body in plane*	4	
• *Different types of supports in space*		
• *Equilibrium of rigid body in space*	4	
• *Special cases of two, three and four force members*	2	
• *Graphical solution of mechanisms*	2	
• *Analysis of Trusses by the method of joints and by the method of sections.*	6	
• *Final Revision*	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
If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures:
Practical training/ laboratory:
Seminar/Workshop:
Class activity:
Case Study:
Other assignments/homework:
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	**----**
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 None

4- Facilities and teaching materials:

Totally adequate	**.Yes.**
Adequate to some extent	**100%**
Inadequate	**……**
List any inadequacies	None

5- Administrative constraints

List any difficulties encountered

- New assistants needs more preparation

6- Student evaluation of the course: **List any criticisms**	**Response of course team**
➢ New assistants commit some mistakes in solution of problems	New assistants attend lectures and all exercises are supervised by staff members

7- Comments from external evaluator(s):
External evaluator: None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: This is the first annual report
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**
Preparation of the course by new assistants	Nov.2011	Prof. Dr. Mahmoud El-Maddah

Course coordinator: **Prof. Dr. Hassan Awad**
Signature:
Date: August 2011

Annual Course Report
Academic year 2010-2011

A- Basic Information

1- Title and code: B131 Physics (I) (Properties of matter ,heat ,thermodynamics and sound waves)
2- Program(s) on which this course is given: All Programs
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 : None

B- Statistical Information

No. of students attending the course: **No. 560** 100%
No. of students completing the course: **No. 511** **91.25 %**
Results:

	No.	%
Passed	423	82.8
Failed	88	17.2

Grading of successful students:

	No.	%
Excellent	32	6.3
Very Good	49	9.6
Good	91	17.8
Pass	251	49.1

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**

Topics taught as a percentage of the content specified:

>90 % [ ] **70-90 %** [√] **<70%** [------]

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 white board and computer supported learning

Laboratory: Experimental measurements in Lab

Seminar/Workshop: None

Class activity: **YES**

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

Members of examination committee Dr. M. El Tawab Kamal.
Dr. Abo El Yazeed Badawy Abo El Yazeed.

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate **.Yes.**

Adequate to some extent **100**

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**
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 in exercises	New teacher assistant will be engaged the next academic year.

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):
External evaluator: 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 none-completion None

9- Action plan for academic year 2011 – 2012

Actions required	Completion date	Person responsible
1. Provide more data show apparatuses	Nov. 2011	Prof. Dr M. El Tawab Kamal
2. Put more experiments in function in the lab.		Prof. Dr M. El Tawab Kamal

Course coordinator: Prof. Dr M. El Tawab Kamal
Signature:
Date: August 2011

Annual Course Report
(Academic Year 2010-2011)

A- Basic Information

1- Title and code: Chemistry, B141
2- Program(s) on which this course is given: All Programs
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 None

B- Statistical Information

No. of students attending the course: **No.** **560** 100%
No. of students completing the course: **No.** **512** **91.4%**
Results:

	No.	%
Passed	414	80.9
Failed	98	19.1

Grading of successful students:

	No.	%
Excellent	32	6.3
Very Good	43	8.4
Good	60	11.7
Pass	279	54.5

C- Professional Information

1 – Course teaching

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

Topics taught as a percentage of the content specified:
>90 % 100 **70-90 %** ☐ **<70%** ....
Reasons in detail for not teaching any topic Shortage in Teaching hours available for the course.

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 , projectors and Data show
Practical training/ laboratory: Practical training and experimental measurements in Lab
Seminar/Workshop: None
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:
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. S. R. Gouda
Prof. Dr. A. M. Abu Talab
Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate	**.Yes.**
Adequate to some extent	**100%**
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**
* 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 profile

7- Comments from external evaluator(s):
External evaluator: None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: This is the first annual report
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**
Provide more data show apparatuses		Prof. Dr. S. R. Gouda

Course coordinator: Prof. Dr. S. R. Gouda
Signature:
Date: August 2011

Annual Course Report
(Academic Year 2010-2011)

A- Basic Information

1- Title and code: E111-Introduction to Computer 1
2- Program(s) on which this course is given: All Programs
3- Year/Level of program: 1st 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. Said A. Gawish
Course coordinator Prof. Dr. Said A. Gawish
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 560 **%** 100
No. of students completing the course: **No.** 519 **%** 92.7
Results:

	No.	%
Passed	456	88
Failed	63	12

Grading of successful students:

	No.	%
Excellent	35	6.7
Very Good	51	9.8
Good	94	18.1
Pass	276	53.2

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Historical overview	2	Prof.Dr Said Gawish
• 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	
• Transient response of second order elements. Effect of location of roots of characteristic equation on the transient response	10	
• System identification based of the transient response.	21	
• Frequency response		
• Frequency response; Polar plot and Bode plots.	6	
• System identification based of the transient and frequency responses.	4	
• 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 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 None

2- Teaching and learning methods:

Lectures: Using white board and computer
Practical training/ laboratory: Computer labs
Seminar/Workshop: None
Class activity: Numerical exercises, computer applications
Case Study: None
Other assignments/homework: 2 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	60 %
Oral examination	**None**
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	None

4- Facilities and teaching materials:

Totally adequate	**.Yes.**
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

1. The theoretical part is to much
2. The student must learn how to read, this is done in second year
3. Some computer language must be tough

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: This is the third annual report
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
1. Provide a sound system in computer labs		Adminstration

Course coordinator: Prof. Dr Said A.Gawish
Signature:
Date: **August 2011**

Annual Course Report
Academic year 2010-2011

A-Basic Information

1- **Title and code :** (M150) Engineering Drawing(1)
2- **Program(s) on which this course is given:** General.
3- **Year /Level of program :** 1st year 1st semester
4- **Unit hours :** **Lectures** 1 hrs **Tutorial** 4 hrs **Practical** — **Total** 5 hrs
5- **Name of lecturers contributing to the delivery of the Course**
Prof. Dr. Mamdouh Saber Elsayed
Course coordinator Prof. Dr. Mamdouh Saber Elsayed
External evaluator : None

B-Statistical Information

No. of students attending the course: **No.** 560 **%** 100
No. of students completing the course: **No.** 514 **%** 91.8
Results:

	No.	%
Passed	395	76.9
Failed	119	23.1

Grading of successful students:

	No.	%
Excellent	17	3.3
Very Good	38	7.4
Good	46	8.9
Pass	294	57.3

C-Professional Information

1- **Course teaching**

Topic Actually taught	No. of hours	Lecturer
Drawing Instruments , Drw sheets, Scales, Folding ,lettering	8	Prof. Dr. Mamdouh Saber Elsayed
Alphabet of lines; Geom. .Construction	8	
Theory of orthographic projection Proj .of point ;line ; plane ;true shape	16	
Projection of geometric solids	8	
Multiview Drawing	8	
Multiview Drawing	8	
Pictorial Drawing (isometric)	8	
Pictorial Drawing (oblique)	8	
Revision Problems	3	
Total hours	75	

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

2- Teaching and learing methods:

Lectures: Using OHP Black board /White board
Practical training /laboratory:
Seminar /Workshop: Drawing of several problems weekly using traditional methods and free hand sketches.

Class activity:
Case Study: Selected cases

Other assignments / homework: Weekly
If teaching and learing 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	**--**
Other assignments /class work	20%
Mid –Term Exam	20%
Total	100 %
Members of examination committee	Prof. Dr. Mamdouh Saber
Role of external evaluator	

4-Facilities and teaching materials:

Totally adequate	**.Yes.**
Adequate to some extent	
Inadequate	
List any inadequacies	None

5-Administrative constraints

List any difficulties encountered

1 Limitation of number of data show in the principal building

6-Students evaluation of the course: **Response of course team**

List any criticisms

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: Third annual report
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 data	Person Responsible
None		

Course coordinator: Prof . Dr. Mamdouh Saber
Signature:
Date: **August 2011**

Annual Course Report
(Academic Year 2010-2011)

A- Basic Information

1- Title and code: ***M160: Production Engineering (1)***
2- Program(s) on which this course is given: General
3- Year/Level of program: 1st year / 1st term
4- Unit hours: Lectures 1 hrs **Tutorial: 0 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: **560** **100%**
No. of students completing the course: **512** 91.4%
Results:

	No.	%
Passed	441	86
Failed	71	14

Grading of successful students:

	No.	%
Excellent	21	4.1
Very Good	39	7.6
Good	92	18
Pass	289	56.4

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical Hours
Lecture Part: Every other week			
Role of production engineer, production system, and types of industries.	2		
Classification and properties of Engineering materials	2		
Mechanical testing of engineering materials; tensile, impact tests, hardness, and fatigue tests.	5	4	4
Manufacturing processes classification. Casting processes; definition, 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.	5		
Practical Part:			
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
Practical Exams		8	
Total	**14**	**12**	**44**

- **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:** None
- **Seminar/Workshop:** Workshop
- **Class activity:**
- Solving problems concerning the determination of material ultimate stress, yield stress, % elongation, % reduction, and young's modulus
- Calculation of hardness numbers; HBN, HVN, HRC, and HRB
- **Case Study:** None
- **Other assignments/homework:** One assignment report at the end of the term
- **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	
Other assignments/class work	40 %
Total	**100 %**

Members of examination committee Prof. Dr. M. Merdan and 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

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): None
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 2011-2012

Actions required	Completion date	Person responsible
Preparation of new materials and cutting tools required for carrying out the practical work in each shop	Feb. 2012	Prof. Dr. B. Sarangawy

Course coordinator: Prof. Dr. M. Merdan
Signature:
Date: August 2011

Annual Course Report
(Academic Year 2010-2011)

A- Basic Information

1- Title and code: B102: English Language (II)
2- Program(s) on which this course is given: General
3- Year/Level of program: First year / 2nd 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 None

B- Statistical Information

No. of students attending the course: **No.** 560 100%
No. of students completing the course: **No.** 491 **87.68%**
Results:

	No.	%
Passed	467	95.11
Failed	24	4.89

Grading of successful students:

	No.	%
Excellent	84	17.1
Very Good	66	13.4
Good	82	16.7
Pass	235	47.9

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• A symphony in Concrete	8	Prof. Dr. Abdel – Hamid El-Khoreiby
• Electricity	10	
• Subjects – verbs and objects	4	
• The verb BE	4	
• Revision	4	
Total hours	**30**	

Topics taught as a percentage of the content 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: None
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 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	None

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

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**
None	None

7- Comments from external evaluator(s):
External evaluator: None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: This is the first annual report
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**
None		

Course coordinator: Abdel-Hamid Mohammed El-Khoreby
Signature:
Date: August 2011

Annual Course Report
(Academic Year 2010-2011)

A- Basic Information

1- Title and code: Math. II, Calculus of Integration – Liner Algebra and Analytic Geometry (B112)
2- Program(s) on which this course is given: All Programs
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: None

B- Statistical Information

No. of students attending the course: **No.** **560** 100%
No. of students completing the course: **No.** **488** **87.14%**
Results:

	No.	%
Passed	252	51.6
Failed	236	84.4

Grading of successful students:

	No.	%
Excellent	12	2.5
Very Good	8	1.6
Good	33	6.8
Pass	199	40.8

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Integration (Definite and indefinite)	10	A. Prof. Dr. M. Khalifa
• Techniques of integration	16	
• Applications of definite integrals	10	
• Infinite series with applications	9	
• Matrices	10	
• Vectors in R^2 and R^n	6	
• Real vector Spaces	6	
• Geometry in three dimensions	6	
• Polar Coordinates	4	
• Complex numbers	5	
• 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, Assist. .Prof. Dr. M. Khalifa
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

6- Student evaluation of the course:

List any criticisms	**Response of course team**
None	

7- Comments from external evaluator(s):
External evaluator: 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 None-completion: None

9- Action plan for academic year 2011– 2012

Actions required	**Completion date**	**Person responsible**
None		

Course coordinator: A.Prof. Dr. M. Khalifa
Signature:
Date: August 2011

Annual Course Report
(Academic Year 2010-2011)

A- Basic Information

1- Title and code: ***B122: Mechancis (II)***
2- Program(s) on which this course is given: All Programs
3- Year/Level of program: First year / second term
4- Unit hours: Lectures 2 hrs Tutorial 2hrs Practical 0hr Total 4 hrs
5- Names of lecturers contributing to the delivery of the course
: Prof. Dr. Hassan Awad
Course coordinator: Prof. Dr. Hassan Awad
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** **560** **100%**
No. of students completing the course: **No.** **490** **87.5 %**
Results:

	No.	%
Passed	302	61.6
Failed	188	38.4

Grading of successful students:

	No.	%
Excellent	1	0.2
Very Good	8	1.6
Good	16	3.3
Pass	277	56.5

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Kinematics of particles	***4***	Prof. Dr. Hassan Awad Prof. Dr. Mahmoud El-Maddah
• ***Rectilinear Motion***		
• ***Graphical solution***	***2***	
Curvilinear Motion Cartesian coordinates	***2***	
• ***Motion of projectiles***		
• ***Tangential and Normal components***	***2***	
• ***Radial and Transverse Components***	***2***	
Kinetics of Particles Force and Acceleration method in different Systems of Coordinates	***4***	
Kinetics of Particles ***Work and energy methed***	***4***	
• ***potential energy, Conservation of energy***		
• ***Principle of impulse and momentum***	***4***	
A- Space mechanics	***2***	
B- Impact	***2***	
C- Final Revision	***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

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 and computer supported learning
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	
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 None

4- Facilities and teaching materials:

Totally adequate	**.Yes.**
Adequate to some extent	**100%**
Inadequate	**……**
List any inadequacies	None

5- Administrative constraints

List any difficulties encountered

- New assistants needs more preparation

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

List any criticisms

- New assistants make some mistakes in solution of problems — New assistants attend lectures and all exercises are Supervised by Teaching staff.

7- Comments from external evaluator(s):
External evaluator: 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 2010 – 2011

Actions required	**Completion date**	**Person responsible**
Training of the new assistants		Prof. Dr. Mahmoud El-Maddah

Course coordinator: **Prof. Dr. Mahmoud El- Maddah**

Signature:
Date: August 2011

Annual Course Report
Academic year 2010-2011

A- Basic Information

1- Title and code: B132 Physics II (Electricity, Magnetisms, Optics)
2- Program(s) on which this course is given: All Programs
3- Year/Level of program: 1st Year , 2nd term
4- Unit hours: Lectures 4 hrs Tutorial - 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: None

B- Statistical Information

No. of students attending the course: **No.** **560** 100%
No. of students completing the course: **No.** **492** **% 87.86 %**
Results:

	No.	%
Passed	417	84.8
Failed	75	15.2

Grading of successful students:

	No.	%
Excellent	26	5.3
Very Good	32	6.5
Good	109	22.2
Pass	250	50.8

1 – Course teaching

Topic	Lecture hours	Lecture
• **Charge and Matter, The Electric Field, Gauss' law**	**4**	Prof. Dr. M. El Tawab
• ***Gauss's law, Electric Potential***	**4**	
• ***Gauss's law applications***	**4**	
• ***Capacitors and Dielectric***	**4**	
• ***Current and Resistance, Electromotive force and Circuits***	**4**	
• ***The Magnetic Field, Ampere's Law***	**4**	
• ***Ampere's law, Inductance***	**4**	
• ***Magnetic Properties of matter***	**4**	
• ***Magnetic Properties of matter, Electromagnetic Waves***	**4**	
• ***Electromagnetic Waves***	**4**	
• ***Electromagnetic Waves, Physical Optics, Polarization of light***	**4**	
• ***Polarization of light***	**4**	
• ***Interference of light***	**4**	
• ***Interference of light, Diffraction of ligh***	**4**	
• ***Diffraction of light, Some applications***	**4**	
Total hours	**60**	

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

Reasons in detail for not teaching any topic The no. of Hour Permitted is not enough
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 board and computer supported learning
Laboratory: Experimental measurements in Lab
Seminar/Workshop: None
Class activity: **Yes**
Case Study: Take Home Exam
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	60 %
Oral examination	**----**
laboratory work	20 %
Other assignments/class work	10 %
Mid-Term Exam	10 %
Total	**100 %**

Members of examination committee **Staff of Physic and Assistants**
Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate	**.Yes.**
Adequate to some extent	**100**
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**
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 in exercises	New teacher assistant will be engaged the next academic year.
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):
External evaluator: 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 2010-2011

Actions required	Completion date	Person responsible
1. Provide more data show apparatuses	Nov.2011	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: August 2011

Annual Course Report
(Academic Year 2010-2011)

A- Basic Information

1- Title and code: E112: Introduction to Computer II
2- Program(s) on which this course is given: 1st year General
3- Year/Level of program: 1st 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. Said A. Gawish
Course coordinator Prof. Dr. Said A. Gawish
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 560 100%
No. of students completing the course: **No.** 489 87.3%
Results:

	No.	%
Passed	411	84
Failed	78	16

Grading of successful students:

	No.	%
Excellent	30	6.1
Very Good	38	7.8
Good	55	11.2
Pass	288	58.9

C- Professional Information

1 – Course teaching

Topic Actually taught	Lecture hours	Practical hours	Lecturer
• Computer languages (HLL, LLL)	2		Prof. Dr. Said Gawish Prof.Dr Said Gawish
• Compilers	2		
• Operating system (types and functions)	6		
• Application software (Word Processing)	6	4	
• Application software (Spread Sheets)	4	6	
• Application software (Files and Databases)	2	6	
• Practical applications in Windows	4		
• Writing programs in HLL	4	10	
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 None

2- Teaching and learning methods:

Lectures: Using white board and computer

Practical training/ laboratory: Computer labs

Seminar/Workshop: None

Class activity: Numerical exercises, computer applications

Case Study: None

Other assignments/homework: 2 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	60 %
Oral examination	**None**
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 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

- **Introducing a sound system in computer labs**

6- Student evaluation of the course:

List any criticisms

1. The theoretical part is too much

2. Some computer language must be tough

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 200X – 200Y

Actions required	Completion date	Person responsible
1. Provide a sound system in computer labs		Adminstration

Course coordinator: Prof. Dr Said A.Gawish
Signature:
Date: August 2011

Annual Course Report
(Academic Year 2010-2011)

A- Basic Information

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

Prof. Dr. Mamdouh Saber Elsayed
Course coordinator Prof. Dr. Mamdouh Saber Elsayed
External evaluator

B-Statistical Information

No. of students attending the course: **No.** 560 100 %
No. of students completing the course: **No.** 484 86.4 %
Results:

	No.	%
Passed	392	81
Failed	92	19

Grading of successful students:

	No.	%
Excellent	31	6.4
Very Good	26	5.4
Good	78	16.1
Pass	257	53.1

C-Professional Information

1- **Course teaching**

Topic Actually taught	No. of hours	Lecturer
Importance of drawing sections	8	Prof. Dr. Mamdouh Saber
Basic types of section ; Full section ; Imgitidinal ;Cross sections	8	
Off –set ;aligned sections	16	

Half –Section ;Partial ;Revolved &Removed ; Auxiliary sections	8	
Dimensioning –Arrangement ;Rules for dimensioning	8	
Conventional practice in ED	8	
Drawing of steel sections	8	
Steel Constructions	8	
Revision Problems	3	
Total hours	75	

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

2- Teaching and learing methods:

Lectures: Using OHP Black board /White board
Practical training /laboratory:
Seminar /Workshop: Drawing of several problems weekly using traditional methods and free hand sketches.
Class activity:
Case Study: Selected cases
Other assignments / homework: Weekly
If teaching and learing 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	
Other assignments /class work	20%
Mid –Term Exam	20%
Total	100 %
Members of examination committee	Prof. Dr. Mamdouh Saber
Role of external evaluator	

4-Facilities and teaching materials:

Totally adequate	**Yes.**
Adequate to some extent	
Inadequate	
List any any inadequacies	*None*

5-Administrative constraints

List any difficulties encountered

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

6-Students evaluation of the course:

List any criticisms

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: Third annual report
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 data	Person Responsible
None		

Course coordinator: Prof. Dr. Mamdouh Saber
Signature:
Date: August 2011

Annual Course Report
(Academic Year 2010-2011)

A- Basic Information

1- Title and code: ***M161: Production Engineering (2)***
2- Program(s) on which this course is given: General
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: 560 100%
No. of students completing the course: 492 88%
Results:

	No.	%
Passed	428	87
Failed	64	13

Grading of successful students:

	No.	%
Excellent	34	6.9
Very Good	42	8.5
Good	86	17.5
Pass	266	54.1

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical Hours
Lecture Part: Every other week			
Metal forming processes; Hot and Cold Forming; Forging, Rolling, Extrusion, and Drawing processes	3		
Machining Processes; Traditional and None-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**

- **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:** None
- **Seminar/Workshop:** Workshop
- **Class activity:**
  Solution of problems of Break-even analysis and Calculation of machining time
- **Case Study:** None
- **Other assignments/homework:** One assignment report at the 12th week
- **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	
Other assignments/class work	40 %
Mid-Term Exam	
Total	100 %

Members of examination committee Prof. Dr. M. Merdan and 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

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 none-completion** None

9- Action plan for academic year 2011 – 2012

Actions required	Completion date	Person responsible
Preparation of new materials and cutting tools required for carrying out the practical work in each shop	Oct. 2012	Prof. Dr. B. Sarangawy

Course coordinator: Prof. Dr. M. Merdan
Signature:
Date: August 2011

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

Annual Course Report
(Academic Year 2011-2012)

A- Basic Information

1- Title and code: ***A060: Civil Engineering Technology***
2- Program(s) on which this course is given: Mechanical Engineering
3- Year/Level of program: Second Year, 1st semester
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. Adham ELAlfy
Course coordinator Prof. Dr. Adham ELAlfy
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 60 100%
No. of students completing the course: **No.** 52 86.7%
Results:

	No.	%
Passed	49	94.23
Failed	3	5.77

Grading of successful students:

	No.	%
Excellent	2	3.85
Very Good	7	13.46
Good	9	17.31
Pass	31	59.62

C- Professional Information

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 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 lecturing using the white board and data show
Practical training/ laboratory: non
Seminar/Workshop: ------

Class activity: exercises, , quizes, problems
Researches: ----
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
Final examination	60 %
Oral examination	20%
Practical/laboratory work	--%
Assignments/class work	10%
Mid-Term Exam	10 %
Total	**100 %**

Members of examination committee Prof. Dr. Adham ELAlfy
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: **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:
Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2012 – 2013 **Non**

Course coordinator: Prof. Dr. Adham ELAlfy **Signature:**
Date: 29/8/2012

A- Basic Information

1- Title and code: B200: English Language (III)
2- Program(s) on which this course is given: Manufacturing Engineering & Production Technology
3- Year/Level of program: 2nd year / 1st 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. 60 100%
No. of students completing the course: No. 53 88.33%
Results:

	No.	%
Passed	50	94.34
Failed	3	5.66

Grading of successful students:

	No.	%
Excellent	8	15.09
Very Good	3	5.66
Good	8	15.09
Pass	31	58.49

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Isaac Newton	6	Prof. Dr. Abdel – Hamid El-Khoreiby
• Making a talkie film	6	
• Three Attitudes towards life	6	
• Plural Nouns	4	
• Regular & Irregular Verbs	6	
• Revision	2	
Total hours	**30**	

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, oral participation in class mid term Exams and attendance reports

Method of assessment	Percentage of total
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	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

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 2012 – 2013

Actions required	Completion date	Person responsible
Non		

Course coordinator: Abdel-Hamid Mohammed El-Khoreby

Signature:

Date: Jan.2012

(Academic Year 2011-2012)

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: Manufacturing Eng. & Prod. Tech. BSc Program
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: None

B- Statistical Information

No. of students attending the course: No. 60 100%
No. of students completing the course: No. 52 86.66%

Results:

	No.	%
Passed	42	80.77
Failed	10	19.23

Grading of successful students:

	No.	%
Excellent	1	1.92
Very Good	3	5.77
Good	9	17.31
Pass	29	55.77

C- Professional Information

1 – Course teaching

3 – Contents

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

Topics taught as a percentage of the content specified:

>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- Teaching and learning methods:

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	%
Other assignments/class work	10 %
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: **Response of course team**

List any criticisms

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: This is the first annual report

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

9- Action plan for academic year 2012– 2013

Actions required	Completion date	Person responsible
None		

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

Signature:

Date: Jan.2012

Annual Course Report
(Academic Year 2011-2012)

A- Basic Information

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.** 60 100.%
No. of students completing the course: **No.** 53 88.33%
Results:

	No.	%
Passed	52	98.11
Failed	1	1.89

Grading of successful students:

	No.	%
Excellent	11	20.75
Very good	6	11.32
Good	10	18.87
Pass	25	47.17

C- Professional Information

1 – Course teaching

Topic Actually taught	Lecture hours	Practical hours	Lecturer
• Steps for solving problems by comp. programs	2		Prof. Dr. Adel El Sherif Dr. Adel Khedr
• Program documentation and flow charts	2		
• Structured programming and structure charts	6		
• Pascal language program parts	2	2	
• Input / Output in Pascal	2	4	
• Data types and declaration	2	4	
• Operators and precedence	2	6	
• Selection constructs in Pascal language	4	2	
• Loops in Pascal language	4	4	
• 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:
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. Adel Khedr
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

- 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 2012 – 2013

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: **Jan.2012**

Annual Course Report
2011/2012

A- Basic Information

1- Title and code:(M201) Fluid Mechanics
2- Program(s) on which this course is given: Manufacturing Engineering 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.** 60 100%
No. of students completing the course: **No.** 53 88.33%
Results:

	No.	%
Passed	46	86.79
Failed	7	13.21

Grading of successful students:

	No.	%
Excellent	1	1.89
Very Good	9	16.98
Good	6	11.32
Pass	30	56.60

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Introduction Definition of fluids, dimensions and units, fluid properties.	8	Dr. Abdelmagid A. Abdalla
• Fluid statics Pressure at a point, pressure field, pressure measurement, hydrostatic forces acting on plane and curved surfaces, buoyancy, floatation, and stability.	16	
• Fluid kinematics Velocity field, acceleration field, Reynolds's transport theorem.	18	
• Conservation laws Conservation of mass- continuity equation, conservation of linear momentum.	10	
• 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	
• Viscous Flow in Pipes General characteristics of pipe flow, fully developed laminar flow, fully developed turbulent flow, dimensional analysis of pipe flow.	8	

Total hours	72	

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 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 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	60 %
Oral examination	----
Practical/laboratory work	20 %
Other assignments/class work	10 %
Mid-Term Exam	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	Yes
Adequate to some extent	……
Inadequate	……
List any inadequacies	Non

5- Administrative constraints
List any difficulties encountered
- **Limitation of number of operating experiments in the laboratory**

6- Student evaluation of the course: List any criticisms	**Response of course team**
1. Insufficient exercises hours.	This insufficiency is due to the determined hours for this course. During lecture hours, It will be considered, the increase of the solved examples.

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 number of solved examples have been increased
- Two other experiments have been added to the lab. Through students projects.
- The notes have been printed in the MAM press.

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
1. Increase the number of solved examples during the lecture	September 2012	Dr. Abdelmagid A. Abdalla

Course coordinator: Dr. Abdelmagid A. Abdalla
Signature:
Date: 25/10/2012

Annual Course Report
2011/2012

A- Basic Information

1- Title and code: *(M250)Engineering Skills(1)*
2- Program(s) on which this course is given: *Manufacturing Engineering& Production Tech.*
3- Year/Level of program: *2nd Year Mechanical*
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
Course coordinator *Prof. Dr. Mamdouh Saber Elsayed*
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 60 100%
No. of students completing the course: **No.** 52 86.67%

Results:

	No.	%
Passed	47	90.38
Failed	5	9.62

Grading of successful students:

	No.	%
Excellent	2	3.85
Very Good	4	7.69
Good	7	13.46
Pass	34	65.38

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours			Lecturer
	L	T	P	
Engineering Materials	2	4		*Prof. Dr. Mamdouh Saber Elsayed*
Limits &Fits	2	4		
Machining Marks	2	4		
Assembly Drawings	2	4		
Mechanical Joints	2	4		
Threaded Joints	2	4		
Locking of Threaded Joints	2	4		
Vices Clamps (Ass.&Det . drw)	2	4		
Lathe Tool Pos	2	4		
Key Joints	2	4		

Pin joints	2	4		
Couplings (Ass.&Det . drw)	2	4		
Pulley Assembly	2	4		
Belt Tightener	2	4		
Total hours	**30**	**60**		

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 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; Quizzes*

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	**Yes**
Adequate to some extent	……
Inadequate	……

List any inadequacies 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: 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. Mamdouh Saber*
Signature:
Date: 23/10/2012

Annual Course Report
2011 - 2012

A- Basic Information

1- Title and code: *M 251:Mechanics of Machines (I)*
2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
3- Year/Level of program: Second year Manufacturing Eng. & Prod. Tech.
4- Unit hours Lectures 2 hrs Tutorial 2hrs Practica l - 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.** 60 100%
No. of students completing the course: **No.** 53 88.33%

Results:

	No.	%
Passed	47	88.68
Failed	6	11.32

Grading of successful students:

	No.	%
Excellent	7	13.21
Very Good	10	18.87
Good	5	9.43
Pass	25	47.17

C- Professional Information

1 – Course teaching

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

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 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	Yes
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**
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: 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**

Course coordinator: Prof. Dr Ahmed Sarhan
Signature:
Date: 25/10/2012

Annual Course Report
Academic year 2011-2012

A- Basic Information

1- Title and code: (M261) Strength of Material
2- Program(s) on which this course is given: Production Engineering and manufacturing
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.** 60 100%
No. of students completing the course: **No.** 53 88.33%

Results:

	No.	%
Passed	41	77.36
Failed	12	22.64

Grading of successful students:

	No.	%
Excellent	1	1.89
Very Good	3	5.66
Good	6	11.32
Pass	31	58.49

C- Professional Information

1 – Course teaching

	Topic	Lecture hours	Practical Hours	Lecturer
1	Simple Trusses	2	2	Prof. Dr. Ahmed ELSanabary
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	
6	Springs Stresses	2	2	
7	Temperature stresses	2	2	
8	Strain energy due to stresses	2	2	
9	Shear & Bending Moment Diagrams	2	2	

10	Shear & Bending Moment Diagrams	2	2	
11	Centroid &Second moment of area	2	2	
12	Shear & Bending stresses	2	2	
13	Compound stress	2	2	
14	Deflection of beams	2	2	
15	Testing of Materials	2	2	
Total hours		30	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 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; 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:
Non

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	66.7 %
Oral examination	**----**
Practical/laboratory work	13.3 %
Other assignments/class work	10 %
Mid-Term Exam	10 %
Total	**100 %**

Members of examination committee Dr. Bakkar El-Sarnagawy

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: **Response of course team**

List any criticisms

(a) 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:

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 2012 – 2013

Actions required	Completion date	Person responsible
Non	Non	Non

Course coordinator: Prof. Dr Ahmed El-Sanabary
Signature:
Date: 1/10/2012

Annual Course Report
(Academic Year 2011-2012)

A- Basic Information

1- Title and code: History of Science & Technology, B202
2- Program(s) on which this course is given: Manufacturing Eng. & Prod. Tech. BSc Program
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. 60 % 100%
No. of students completing the course: No. 53 % 88.33
Results:

	No.	%
Passed	47	88.68
Failed	6	11.32

Grading of successful students:

	No.	%
Excellent	2	3.77
Very Good	9	16.98
Good	12	22.64
Pass	24	45.28

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
* العلم والهندسه والتكنولوجيا	2	Prof. Dr. S. R. Gouda
* الهندسه والبحث العلمى – منظومه البحث العلمى	4	
* عناصر ومتطلبات البحث العلمى	2	
* الهندسه وخريطه البحث العلمى – مراحل البحث العلمى	2	
* تاريخ الهندسه والتكنولوجيا فى مختلف العصور	4	
* نقل التكنولوجيا	2	
* نشاطات العمل الهندسى ومسئوليه المهندس	2	

* التعليم الهندسى	2	
١- * نقابه المهندسين المصريه – جمعيه المهندسين المصريه	4	
٢- * تطور اوجه النشاط الهندسى والتكنولوجى	4	
٣- * 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

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:

None

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	70 %
Oral examination	None
Practical/laboratory work	None
Other assignments/class work	10%
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	**Yes**
Adequate to some extent	**100%**
Inadequate	**----**
List any inadequacies	Non

5- Administrative constraints

List any difficulties encountered None

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

List any criticisms

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
Non		Non

Course coordinator: Prof. Dr. S. R. Gouda
Signature:
Date: Aug.2012

Annual Course Report
(Academic Year 2011-2012)

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. 60 100%
No. of students completing the course: No. 49 **81.66%**
Results:

	No.	%
Passed	35	71.43
Failed	14	28.57

Grading of successful students:

	No.	%
Excellent	1	2.04
Very Good	2	4.08
Good	5	10.2
Pass	27	55.1

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Laplace transform	6	Prof. Dr. Osama El Gyar Prof. Dr. Aly Essawi
• First shift property-Second shift property	6	
• Differentiation of Laplace transform	6	
• Integration of laplace transform	6	

• Solving D.E using laplace transform	6	
• Laplace transform of the derivative	6	
• Laplace transform of the Integral	6	
• The Gamma and Beta function	6	
• Line integral and application	6	
• Double integral and application	6	
• Multiple integral and application	6	
• Surface and volume Integral	6	
• 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:

>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- Teaching and learning methods:

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	%
Other assignments/class work	10 %
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: **Response of course team**

List any criticisms

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: None

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

9- Action plan for academic year 2012 – 2013

Actions required	Completion date	Person responsible
None		

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

Signature:

Date: Aug. 2012

Annual Course Report 2011/2012

A- Basic Information

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
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
Course coordinator Prof. Dr. Adel kuder
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 60 **%** 100.
No. of students completing the course: **No.** 51 **%** 85

Results:

	No.	%
Passed	50	98.04
Failed	1	1.96

Grading of successful students:

	No.	%
Excellent	8	15.69
Very Good	7	13.73
Good	11	21.57
Pass	24	47.06

C- Professional Information

1 – Course teaching

Topics Actually Taught	Lecture hours	Practical hours	Lecturer
• Concepts of structured programming	2		Prof. Dr. Sai
• 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	
• Decision (selection) constructs in C++	4	2	
• Loops in C++	4	4	
• Arrays in C++	2	2	
• Functions in C++	2	2	
• Calling functions (by value, by reference)	2	4	
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:

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	Yes
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	

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 2012 – 2013

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: Oct. 2012

Annual Course Report
2011/2012

A- Basic Information

1- Title and code:(M222) Thermodynamics
2- Program(s) on which this course is given: Manufacturing Engineering and Production Technology
3- Year/Level of program: Second YearMan. 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.** 60 100%
No. of students completing the course: **No.** 51 85%

Results:

	No.	%
Passed	44	86.27
Failed	7	13.73

Grading of successful students:

	No.	%
Excellent	1	1.96
Very Good	5	9.80
Good	7	13.73
Pass	31	60.78

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer

• Introduction Importance of thermodynamics, some applications Mechanisms of heat transfer.	6	Dr. Abdelmagid A. Abdalla,
• 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.	14	
• 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).	14	
• 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	16	
• Second law of thermodynamics Heat engine and heat pump, Kelvin–Plank and Clausius statements. Reversibility and factors affecting it, Carnot cycle and its efficiency, Thermodynamic temperature scales.	12	
• Entropy Definition, Clausius inequality, entropy of a pure substance, entropy change in a process, entropy relation, entropy generation and principle of increase of it, entropy change of a solid, liquid, and ideal gas. Second law for a control volume, for SSSF, and USUF processes,	10	
Total hours	**72**	

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 as during the last three weeks practical exams and revisions were carried out, in addition there were about 4 separate vacation days

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 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	60 %
Practical/laboratory work	20 %
Other assignments/class work	10 %
Mid-Term Exam	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	**Yes**
Adequate to some extent	.....
Inadequate	.....
List any inadequacies	None

5- Administrative constraints

List any difficulties encountered

- Limitation of number of operating heaters in the laboratory
- Lake in the no. of capillary tubes used in the Kinetic Theory Exp.

6- Student evaluation of the course:

List any criticisms	Response of course team
1. Insufficient exercises hours.	This insufficiency is due to the determined hours for this course. During lecture hours, It will be considered, the increase of the solved examples.
2. Problems with some experiments during the lab.	A number of heaters & capillary tubes will be supplied to the lab.
3. Colored Printed notes	This will increase the cost of the notes, and thr notes is very clear.

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 during the lecture have been increased.
- Consumable items in the lab as capillary tubes, heaters, etc.have been supplied.
- Lecture notes' printing is now carried out in the MAM press.

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
1- Substitute of the male-functioned experiment by supplying two heaters		Eng./Sabry

Course coordinator: Dr. Abdelmagid A. Abdalla
Signature:
Date: 23/10/2012

Annual Course Report
Academic Year 2011-2012

A- Basic Information

1- Title and code:(M252) Mechanics of Machines II
2- Program(s) on which this course is given: Production Engineering and manufacturing Technology
2- Year/Level of program: second Year, 2nd Semester
4- Unit hours Lectures 2 hrs Tutorial 2 hrs Practical 0 hr Total 4 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.** 60 100%
No. of students completing the course: **No.** 50 83.33%

Results:

	No.	%
Passed	49	98
Failed	1	2

Grading of successful students:

	No.	%
Excellent	9	18
Very Good	13	26
Good	12	24
Pass	15	30

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Kinematics of motion	8	Prof. Dr. Gaafar A. Hussein
• Velocity in mechanisms	8	
• Gears and gear trains	20	
• Gyroscopic couple and processional motion	12	

• Inertia forces in reciprocating parts	8	
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 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 and 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, 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 **Prof.** Gaafar A. Hussein
Dr. Abdelmagid abdalla

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**

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

List any criticisms

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**	**None**

Course coordinator: Prof. Gaafar A. Hussein
Signature:
Date: 17/10/2012

Annual Course Report
2011/2012

A- Basic Information

1- Title and code: *(M253) Engineering Skills(2)*
2- Program(s) on which this course is given: *Manufacturing Engineering& Production Tech.*
3- Year/Level of program: *2nd Year Mechanical*
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
Course coordinator *Prof. Dr. Mamdouh Saber Elsayed*
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 60 100%
No. of students completing the course: **No.** 50 83.33%

Results:

	No.	%
Passed	43	86
Failed	7	14

Grading of successful students:

	No.	%
Excellent	6	12
Very Good	3	6
Good	6	12
Pass	28	56

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours			Lecturer
	L	T	P	

Engineering Materials	2		4	*Prof. Dr. Mamdouh Saber Elsayed*
Limits &Fits	2		4	
Machining Marks	2		4	
Assembly Drawings	2		4	
Mechanical Joints	2		4	
Threaded Joints	2		4	
Locking of Threaded Joints	2		4	
Vices Clamps (Ass.&Det . drw)	2		4	
Lathe Tool Pos	2		4	
Key Joints	2		4	
Pin joints	2		4	
Couplings (Ass.&Det . drw)	2		4	
Pulley Assembly	2		4	
Belt Tightener	2		4	
Total hours	**28**		**56**	

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 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	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	**.Yes.**
Adequate to some extent	……
Inadequate	……
List any inadequacies	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
To join the subjects of the two semesters (Eng – Skills (1) & (2) in one final exam.	
Drawing halls	

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
New solving problems	September 2012	Prof. Mamdouh Saber
More teaching aids		

Course coordinator: *Prof . Dr. Mamdouh Saber*

Signature:

Date: 17/10/2012

Annual Course Report 2011/2012

A- Basic Information

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

2- Program(s) on which this course is given: Production Eng. and manuf. Tech. 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:	**No.**	**60**	**100 %**
2- No. of students completing the course:	**No.**	**52**	**86.67 %**

3- Results:

	No.	%
Passed	50	96.15
Failed	2	3.85

Grading of successful students:		
Grade	No.	%
Excellent	5	4.62
Very Good	13	25
Good	13	25
Pass	19	36.54

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecturer

	Plan.	Actual		
• Crystal Structure of Metals	2		2	Prof. Dr. Bakkar Elsarngawy
• Miller's indices	2	2		
• Solidification of Metals	2		2	
• Binary Equilibrium Diagrams	2	2		
• Iron-Carbon system	2		2	
• Steels and microstructure	2	2		
• Cast iron and microstructure	2		2	
• Heat treatment of steels	2	2		
• Copper and its alloys	2		2	
• Alluminum and its alloys	2	2		
• Strengthening Mechanisms	2		2	
• Lead and tin alloys (Babbits)	2	2		
• 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: Non

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: 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):

	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 reasons for any non-completion:

Actions required	Planned Completion date	Accomplishment
(a) Non		

9- Action plan for academic year 2012– 2013

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

Course coordinator: Prof. Dr Bakkar Elsarnagawy
Signature:
Date: 25/10/2012

Annual Course Report
2011/2012

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 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: **60** 100%
No. of students completing the course: **50** 83.33%

Results:

	No.	%
Passed	44	88
Failed	6	12

Grading of successful students:

	No.	%
Excellent	1	2
Very Good	3	6
Good	7	14
Pass	33	66

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	lecturer
Introduction; Definition of technology, production system, manufacturing processes and elements of machining system	2	2		Prof. Dr. M. Merdan
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		
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		
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
- **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	70 %
Oral examination	
Practical/laboratory work	
Other assignments/class work	10 %
Mid-Term Exam	20 %
Total	**100 %**

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

4- Facilities and teaching materials:

- **Totally adequate** Yes
- **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**

Some topics in the subject are needed to be shifted to Manufacturing Technology I	**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 2012 – 2013

Actions required	**Completion date**	**Person responsible**
Course modification in coordination with manufacturing technology II	September 2011	Dr. M. Merdan Dr. A. Kohail

Course coordinator: Prof. Dr. M. Merdan
Signature: M. Merdan
Date: 23/10/2012

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
(2012-2013)

A- Basic Information

1- Title and code: B300: English Language (IV)
2- Program(s) on which this course is given: Manufacturing Eng. & Prod. Tech. BSc. Program.
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: None

B- Statistical Information

No. of students attending the course: No. 48 100%
No. of students completing the course: No. 46 **95.83%**
Results:
No. % Grading of successful students:

Passed	45	97.83		**No.**	**%**
Failed	1	2.27	**Excellent**	8	17.4
			Very Good	6	13
			Good	11	23.9
			Pass	20	43.5

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Murder	10	Prof. Dr. Abdel – Hamid El-Khoreiby
• A false Charge	2	
• Interviewing Preparation	10	
• Writing a C.V / Resumé	4	
• Revision	4	
Total hours	**30**	

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, oral participation in class midterm Exams and attendance reports

Method of assessment	**Percentage of total**
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	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 2013– 2014

Actions required	Completion date	Person responsible
Non		

Course coordinator: Abdel-Hamid Mohammed El-Khoreby
Signature:
Date: Nov.2013

Annual Course Report (2012-2013)

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: None

B- Statistical Information

No. of students attending the course: No. 48 100%
No. of students completing the course: No. 48 100%
Results:

No.	%	Grading of successful students:

Passed	48	100		**No.**	**%**
Failed	0	0	**Excellent**	3	6.3
			Very Good	4	8.3
			Good	7	14.6
			Pass	34	70.8

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	
• Canonical and standard forms	4	
• Solutions of bawdry value problems	4	
• Heat flaw and steady state heat distribution	4	
• Vibration of astringe	4	
• Vibration of membrane	4	
Total hours	**60**	

Topics taught as a percentage of the content specified:

>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- Teaching and learning methods:

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

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**
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 None-completion None

9- Action plan for academic year 2013 – 2014

Actions required	**Completion date**	**Person responsible**

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

Signature:

Date: Nov. 2013

Annual Course Report
2012-2013

A- Basic Information

1- Title and code: Electrical & Electronic Circuits, E030
2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc. Program
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: None

B- Statistical Information

No. of students attending the course: **No.** 48 **%** 100
No. of students completing the course: **No.** 48 **%** 100

Results:

	No.	%
Passed	46	95.8
Failed	2	4.2

Grading of successful students:

	No.	%
Excellent	4	8.3
Very Good	2	4.2
Good	9	18.8
Pass	31	64.6

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Introduction: Needs for electric circuits and fluid flow analogy	4	Prof. Dr. Ir. Mostafa Sayed AFIFI
• 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	
• Resistive networks and strain measurements.		
• Strain Gauges.	4	
• Parallel and Series connections, Thevenin's and Norton	4	
• Voltage dividers and Current dividers	6	
• Network Analysis		
• Wheatstone Bridge	6	
• Node Voltages and Mish Currents	8	
• Operational Amplifiers, Inversion, non-inversion, Adders and subtractions.	6	
• Capacitance and Inductance, its construction, calculations and first order 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 Effect (FETs)	6	
Total hours	**84**	

Topics taught as a percentage of the content specified:

>90 % [X] **70-90 %** [ ] **<70%** [....]

Reasons in detail for not teaching any topic Semiconductors were shortened

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: 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- 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. Ir. Mostafa S. 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

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

6- Student evaluation of the course:

List any criticisms	**Response of course team**
(a) Less response from the Industrial 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**

None

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 2013	

2. Put more experiments in function in the lab.	2013	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 2013 – 2014

Actions required	Completion date	Person responsible
1. Try to increase of Lab hours		Department actions

Course coordinator: Prof. Dr Ir Mostafa Afifi
Signature:
Date: 7/2013

Annual Course Report
2012-2013

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.** 48 **%** 100
No. of students completing the course: **No.** 48 **%** 100
Results:

	No.	%
Passed	45	93.75
Failed	3	6.25

Grading of successful students:		
	No.	**%**
Excellent	5	10.4
Very Good	1	2.1
Good	7	14.6
Pass	32	66.7

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Introduction to computer applications:	4	Prof. Dr. Nabil Gadallah
• Computer graphics (Pro/Engineer)		
• Engineering analysis (Matlab)		
• Solid modelling techniques in art design		
• Extrusion & Revolve	4	
• Applications	12	
• Sweep and blend	4	
• Assemblies	8	
• Detail Drawing (drafting)	8	
Introduction to MATLAB		
• Introduction & basic vector and matrix operations.	4	
• Polynomials and solution of linear equations	4	
• 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 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: 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	13.3 %
Other assignments/class work	10 %
Mid-Term Exam	10 %
Total	**100 %**

Members of examination committee Dr. Nabil Gadallah
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
None

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 2013 – 2014

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: 2/2013

Annual Course Report
2012-2013

A- Basic Information

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.** 48 **%** 100
No. of students completing the course: **No. 46** **%95.83**
Results:

	No.	%
Passed	45	97.82
Failed	1	2.18

Grading of successful students:

	No.	
Excellent	3	6.5%
Very Good	4	8.7%
Good	17	37%
Pass	21	45.7%

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Introduction to Thermo-Fluid Machinery	8	Prof. Dr. Metwally H. Metwally
• Fundamentals of Heat Exchangers	12	
• Mixture of Gases	8	
• Combustion and Internal Combustion Chamber	12	
• Air Compressors	12	
• Gas Turbines	12	
• Fluid Machinery	8	
Total hours	**72**	

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 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.

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	13.33 %
Other assignments/class work	13.33 %
Mid-Term Exam	6.67 %
Total	100 %

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

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
None	

7- Comments from external evaluator(s): None

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 2013 – 2014

Actions required	Completion date	Person responsible
Non	Non	Non

Course coordinator: Prof. Dr Metwally H. Metwally
Signature:
Date: 2/2013

Annual Course Report
2012-2013

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.**	**48**	100 **%**
No. of students completing the course:	**No.**	**48**	100 **%**

Results:

	No.	%
Passed	47	97.92
Failed	1	2.08

Grading of successful students:		
Grade	No.	%
Excellent	4	8.3
Very Good	10	20.8
Good	15	31.3
Pass	18	37.5

C- Professional Information

1 – Course teaching

Topic	Total hours	Lecturer
• Speed governors	16	Prof. Dr. Gaafar Hussein
• Balancing of rotating masses	8	
Balancing of reciprocating masses	8	
• Engine effort and torque diagrams	8	
• 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.

6- Student evaluation of the course:

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

7- Comments from external evaluator(s):

	Comment	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 2013 – 2014

Actions required: Provide more data show apparatuses
Completion data: Non
Action Response: Non

Course coordinator: Prof. Dr Gaafar Hussein
Signature:
Date: September 2013

Annual Course Report
2012-2013

A- Basic Information

1- Title and code: Industrial Psychology, M360
2- Program(s) on which this course is given: Manufacturing Eng. & Production Tech.
3- Year/Level of program: 3rd year, 1st Term, Mech.
4- Unit hours Lectures 2 hrs. Tutorial --- Practical --- Total 2 hrs.
5- Names of lecturers contributing to the delivery of the course

	Prof. Dr. Mamdouh Saber
Course coordinator	Prof. Dr. Mamdouh Saber
External evaluator	

B- Statistical Information

No. of students attending the course: **No.** **48** **%** 100
No. of students completing the course: **No.** **46** **%** 95.83
Results: Mech.

	No.	%
Passed	40	81.2
Failed	6	18.8

Grading of successful students:

	No.	%
Excellent	3	6.5
Very Good	4	8.7
Good	8	17.4
Pass	25	54.3

C- Professional Information

1 – Course teaching

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

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: None

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	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,
- 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 2013 – 2014

Actions required	**Completion date**	**Person responsible**

Course coordinator: Prof. Dr. Mamdouh Saber
Signature:
Date: **Sept.2013**

Annual Course Report
2012-2013

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.** 48 **%** 100
No. of students completing the course: **No.** 48 **%** 100

Results:

	No.	**%**
Passed	40	83.3
Failed	8	16.7

Grading of successful students:

	No.	
Excellent	3	6.3%
Very Good	3	6.3%
Good	9	18.8%
Pass	25	52.1%

C- 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 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 lecturing using the white board

Practical training/ laboratory: Yes

Seminar/Workshop: Yes

Class activity: Solutions of problems

Case Study: None

Other assignments/homework: assignments report each month

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/	**5%**
Mid-Term Exam	**15%**
Total	**100 %**

Members of examination committee Dr. M. Merdan

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

- 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 Non

9- Action plan for academic year 2013 – 2014

Actions required	Completion date	Person responsible

Course coordinator: Dr. M. Merdan
Signature:
Date: 2/2013

Annual Course Report
2012-2013

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. 48 100%
No. of students completing the course: No. 47 97.92%

Results:	No.	%
Passed	42	89.36
Failed	5	10.64

Grading of successful students:

	No.	%
Excellent	5	10.6
Very Good	5	10.6
Good	7	14.9
Pass	25	53.2

C- Professional Information
1 – Course teaching:

Topic	Lecture hours	Lecturer
• Circuit analysis of transformers	4	Prof. Dr. Said A. Gawish
• Transformer construction	2	
○ Equivalent circuit of a transformer	2	
• Transformer test	2	
• Construction of dc machines	2	
• Classification of dc machines	2	
• Circuit equations of dc machines	2	
• DC machine efficiency	2	
• Construction of induction motors	2	
• Torque-speed characteristics	2	
• Efficiency of induction motors	2	
• Circuit equations of synchronous machines	2	
• Construction of synch machines	2	
• Operation of synch machines	2	
Total hours	**30**	

Percentage of the content 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	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**
None	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 none-completion None

9- Action plan for academic year 2013 – 2014

Actions required	**Completion date**	**Person responsible**
None		

Course coordinator: Prof. Dr. Said A. Gawish
Signature:
Date: October 2013

Annual Course Report
2012-2013

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.** 48 **%** 100
No. of students completing the course: **No.** 47 **%** 97.92

Results:

	No.	%
Passed	41	87.23
Failed	6	12.77

Grading of successful students:

	No.	%
Excellent	8	17
Very Good	7	14.9
Good	8	17
Pass	18	38

C- Professional Information

1 – Course teaching:

Topic Actually taught	Practical hours	Lecturer
Introduction to NC and CNC Machines	2	Dr Atef Afifi
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	
– Definition and Applications of G00	4	
– Definition and Applications of G01	4	
– 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 %** **<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

Practical training/ laboratory: Yes

Seminar/Workshop: Yes

Class activity: Solutions of problems

Case Study: None

Other assignments/homework: assignments report each month

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 Dr. Atef Afifi

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

- 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 Non

9- Action plan for academic year 2013 – 2014

Actions required **Completion date** **Person responsible**

None
Course coordinator: Dr Atef Afifi
Signature:
Date: November 2013

Annual Course Report
2012-2013

A- Basic Information

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.** 48 **%** 100
No. of students completing the course: **No.** 46 **%** 96.9
Results:

	No.	%
Passed	44	95.65
Failed	2	4.35

Grading of successful students:

	No.	%
Excellent	12	26.1
Very Good	11	23.9
Good	10	21.7
Pass	11	23.9

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.**

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 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	Yes
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): None
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 Non

9- Action plan for academic year 2013 – 2014

Actions required	Completion date	Person responsible

Course coordinator: Prof. Dr Ahmed Sarhan
Signature:
Date: 2/2013

Annual Course Report
2012-2013

A- Basic Information

1- Title and code: Measuring Instruments & Instrumentations, M352
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 1 hrs Practical 1 hrs 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.** 48 **%** 100
No. of students completing the course: **No.** 47 **%** 97.92
Results:

	No.	%
Passed	45	95.74
Failed	2	4.26

Grading of successful students:

	No.	%
Excellent	5	10.6
Very Good	13	6.4
Good	17	36.2
Pass	20	42.6

C- Professional Information

1- Course teaching

Topic Actually taught	No. of hours	Lecturer
• Measuring system characteristics	4	Dr. Ahmad Sarhan
• 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	

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 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 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**
None	None

7- Comments from external evaluator(s):

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 2013 – 2014

Actions required	**Completion date**	**Person responsible**

Course coordinator: Prof. Dr Ahmed Sarhan
Signature:
Date: 15/2/2013

Annual Course Report
2012-2013

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: **48** 100 %
No. of students completing the course: **47** 97.92 %

Results:	**No.**	**%**
Passed	40	85.1
Failed	7	14.9

Grading of successful students:

	No.	
Excellent	1	2.1%
Very Good	5	10.6%
Good	3	6.4%
Pass	31	66%

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 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:** 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** Yes
- **Adequate to some extent** .....
- **Inadequate** .....
- **List any inadequacies** None

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: 2013 – 2014

Actions required	**Completion date**	**Person responsible**
None		None

Course coordinator: Prof. Dr. A.M.Kohail
Signature:
Date: 1/9/2013.

Annual Course Report (2012/2013)

A- Basic Information

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.** 48 **%** 100
No. of students completing the course: **No.** 47 **%** 97.92
Results:

	No.	**%**		**Grading of successful students:**		
Passed	45	95.7			**No.**	**%**
Failed	2	4.3		**Excellent**	2	4.3
				Very Good	5	10.6
				Good	7	14.9
				Pass	31	66

C- Professional Information

1 – Course teaching

Topic Actually taught	**No. of hours**		**Lecturer**
	Lec	**Tut**	
• Introduction	2	1	Prof. Dr. Serage Eldin Khalifa
• Stresses at a Point	2	2	
• Principal Stresses	4	4	
• Design for Static Strength	6	6	
• Design for Dynamic Strength	9	10	
• Design of Shafts	3	5	
• Design of Keys, Feathers, and Splines	3	3	
• Design of Threaded Joints, Fasteners and Connections	6	6	
• Design of Welded Joints	2	2	

• Design of Helical Springs	4	4	
• Design of Pressed –on Joints	4	2	
Total hours	45	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 detail None

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 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	60 %
Oral examination	15 %
Practical/laboratory work	----
Other assignments/class work	10 %
Mid-Term Exam	15 %
Total	**100 %**

Members of examination committee Prof. Dr. Serage Eldin Khalifa

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**

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 2013– 2014

Actions required	Completion date	Person responsible
None		

Course coordinator: Prof. Dr Serage Eldin Khalifa
Signature:
Date: **15/7/2013**

Annual Course Report
2012-2013

A- Basic Information

1- Title and code: (M399) Project I.
2- Program(s) on which this course is given: Manufacturing 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
Lectures [---] Tutorial [---] Practical [4] Total [4 hrs] Second Term
5- Names of lecturers contributing to the delivery of the course
All the teaching Staff of the department
Course coordinator Dr. Abdelmagid A. Abdalla
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** [48] **%** [100]
No. of students completing the course: **No.** [48] **%** [100]

Results:

	No.	%
Passed	48	100
Failed	0	0

Grading of successful students:

	No.	%
Excellent	22	45.8
Very Good	15	31.3
Good	11	22.9
Pass	0	0

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Collection of technical data	According to the subject of the project	All the teaching staff of the department
Technical report		
Design and technological procedure		
Presentation of Problem		
Problem solving		

Realization of design		
Testing and inspection		
Writing of technical report		
Follow up of technical work		
Assembly of components		
Presentation of producer		
Evaluation of producer quality		
Total Hours	**60**	

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 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:
None

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	-----%
Oral examination	25%
Practical/laboratory work	25%
Other assignments/class work	50 %
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	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
- 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: 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
Students of each project should be in the same class	Sept. 2012	Chief of chair

Course coordinator: Dr. Bakkar Elsarnagawy
Signature:
Date: October 2013

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 2013-2014)

A- Basic Information

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. 51 % 100
No. of students completing the course: No. 51 % 100
Results: Electr.

	No.	%
Passed	42	82.35
Failed	9	17.65

Grading of successful students:

	No.	%
Excellent	7	13.73
Very Good	3	5.88
Good	14	27.45
Pass	18	35.29

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	
• Cylindrical and spherical polar coordinates	4	
• Final Revison	4	
Total hours	**60**	

Topics taught as a percentage of the content specified:

>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- Teaching and learning methods:

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	%
Other assignments/class work	10 %
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 assistant in exercises	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 2014– 2015

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

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

Signature:
Date: 1/9/2014

Annual Course Report
(Academic Year 2011-2012)

A- Basic Information

1- Title and code: Production Management, M454
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: 51 100%
No. of students completing the course: 49 96.08%
Results:

	No.	%
Passed	42	85.71
Failed	7	14.29

Grading of successful students:

	No.	%
Excellent	4	8.16
Very Good	4	8.16
Good	5	10.21
Pass	29	59.18

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 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:** 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	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.Sarhan
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	Software is not available

6- Student evaluation of the course:

List any criticisms
None

Response of course team
None

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

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
None		None

Course coordinator: Prof. Dr. A.Sarhan
Signature:

Date: 1/9/2014

Annual Course Report
(Academic Year 2011-2012)

A- Basic Information

4- Title and code: System Dynamics & Vibrations, M461
5- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
6- 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.** 51 **%** 100
No. of students completing the course: **No.** 51 **%** 100

Results:	**No.**	**%**
Passed	49	96.08
Failed	2	3.92

Grading of successful students:

	No.	**%**
Excellent	6	11.77
Very Good	9	17.65
Good	16	31.37
Pass	18	35.29

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		Prof. Dr. Gaafar A. Hussein
• 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		
• Response of single and multiple degree of freedom systems undergoing different forcing functions.	10	8		
• MATLAB simulation of single degree of freedom systems.			6	
• Mechanical-electrical and mechanical-hydraulic analogies.	6	6		
• Vibration absorbing techniques.	4	4		
• Vibration Measurements	4		3	
• 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 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: 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	66.7%
Oral examination	**----**
Practical/laboratory work	13.3 %
Other assignments/class work	6.7 %
Mid-Term Exam	13.3 %
Total	**100 %**

Members of examination committee Prof. Gaafar Ahmed Hussein
Prof. Abdelmagid Abdalla

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

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

9- Action plan for academic year 2014 – 2015

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

Course coordinator: Prof. Dr Gaafar A. Hussein
Signature:
Date: 3/8/2014

Annual Course Report
(Academic Year 2013-2014)

A- Basic Information

1- Title and code: Machine Design II, M471
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.** 51 **%** 100
No. of students completing the course: **No.** 51 **%** 100

Results:

	No.	%		**Grading of successful students:**		
Passed	41	80.39			No.	%
Failed	10	19.61		**Excellent**	4	7.84
				Very Good	5	9.80
				Good	13	25.49
				Pass	19	37.26

C- Professional Information

1 – Course teaching

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

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
Tutorials: Classical Exercises using the white board and computer supported learning
Practical training/ laboratory: None
Seminar/Workshop: 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:
None

3- Student assessment:

Method of assessment	Percentage of total
Written examination	66.7 %
Oral examination	13.3 %
Practical/laboratory work	-----
Other assignments/class work	10 %
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	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
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 2014– 2015

Actions required	Completion date	Person responsible
None		

Course coordinator: Prof. Dr Serage Eldin Khalifa
Signature:
Date: 15/7/2014

Annual Course Report
(Academic Year 2013-2014)

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: 51
No. of students completing the course: 48
Results:

	No.	%
Passed	38	79.17
Failed	10	20.83

Grading of successful students:

	No.	%
Excellent	2	4.17
Very Good	6	12.5
Good	9	18.75
Pass	21	43.75

C- Professional Information

1 – Course teaching

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

- **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:** 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**
Written examination	100
Oral examination	
Practical/laboratory work	20
Other assignments/class work	10
Mid-Term Exam	20
Total	**150**

Members of examination committee Dr. M. Merdan and Dr. A.Afifi
Role of external evaluator None

4- Facilities and teaching materials:
- **Totally adequate** Yes
- **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 2014 – 2015

Actions required	**Completion date**	**Person responsible**
None		None

Course coordinator: Dr. M. Merdan
Signature: M. Merdan
Date: 6/11/2014

Annual Course Report
(Academic Year 2013-2014)

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 3 hrs Lectures 3 hrs Tutorial 2 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.	51	100 %
No. of students completing the course:	No.	49	96.08 %

Results:

	No.	%
Passed	46	93.88
Failed	3	6.12

Grading of successful students:		
Grade	No.	%
Excellent	1	2.04
Very Good	2	4.08
Good	9	18.37
Pass	34	69.39

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecturer
	Plan.	Actual	
• Introduction, signal processing requirements for mechanics	3	3	Prof. Dr. Mostafa Afifi
• 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	
* Signal Generators and Power Supplies	6	6	
• Wienbridge, RF Hartly Oscillators, Function Generators, Pulse Generators and Power Supplies	8	8	
• Logic Gates and Switching Circuits	4	4	
• Boolean Algebra	4	4	
• Switching Circuits and DeMorgans Theorems	4	4	
• 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	

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

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 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 quizzes.
- 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 reasons for any non-completion:

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

10- Action plan for academic year 2014 – 2015

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

Course coordinator: Prof. Dr Mostafa Afifi
Signature:
Date: September 24, 2014

Annual Course Report
(Academic Year 2013-2014)

A- Basic Information

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: No. 51 **%** 100
No. of students completing the course: No. 51 **%** 100

Results:	**No.**	**%**
Passed	51	100
Failed	0	0

Grading of successful students:

	No.	**%**
Excellent	31	60.78
Very Good	7	13.73
Good	9	17.65
Pass	4	7.84

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 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:
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	
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	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**

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 2014– 2015

Actions required	Completion date	Person responsible
1. None		

Course coordinator: Dr. Abdelmagid A Abdalla

Signature:

Date: 2/11/2014

Annual Course Report
(Academic Year 2013-2014)

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. 51 **%** 100
No. of students completing the course: No. 47 **%** 92.16

Results:

	No.	%
Passed	45	95.75
Failed	2	4.25

Grading of successful students:

	No.	%
Excellent	2	4.26
Very Good	7	14.89
Good	11	23.40
Pass	25	53.19

C- Professional Information

1 – COURSE TEACHING

Topic Actually Taught	Lecture hours	Lecturer
• Engineering materials (Types and applications)	7	Dr. Bakr Rabieh
• 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	
• Composite materials	6	
• Raw materials for part fabrications	8	
• Product development & Product life cycle	4	
• design for Manufacturing	11	
• 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	13.3 %
Total	**100 %**

Members of examination committee Dr. Bakr M. Rabieh

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

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 2014 – 2015

Actions required	**Completion date**	**Person**
Non		

Course coordinator: Dr. Bakr M. Rabieh

Signature:

Date: 1/10/2014

Annual Course Report
Academic year 2013-2014

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. Dr. Nabil Gadalla
Course coordinator: Prof. Dr. Nabil Gadalla
External evaluator

B- Statistical Information

No. of students attending the course: No. 51 **%** 100
No. of students completing the course: No. 47 **%** 92.2

Results:	**No.**	**%**
Passed	38	80.9
Failed	9	19.1

Grading of successful students:

	No.	**%**
Excellent	1	2.13
Very Good	6	12.77
Good	5	10.64
Pass	26	55.32

C- Professional Information

1 – COURSE TEACHING

Topic Actually taught	No. of hours	Lecturer
CHAPTER 1: An Overview of Computer-Aided Design & Analysis	2	Prof. Dr. Abdel-Nasser Zayed
C H A PTE R 2 : Review of Numerical Techniques for CAD	4	
C H A PTE R 3 : Principles of Computer Graphics	12	
C H A P T E R 4: Computer Graphics and Design	8	
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	
C H A P T E R 7: Elastic Stress Analysis by the Finite Element Method	4	
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 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: Pro Eng Packages in Lab
Seminar/Workshop:
Two Seminars were arranged by the students:
(a) Computer graphics, Design (Pro/Engineer Mechanica)
(b) 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:

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	13.3 %
Total	**100 %**

Members of examination committee Prof. Abdel-Nasser Zayed
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

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 2014 – 2015

Actions required	**Completion date**	**Person responsible**
Non		

Course coordinator: Prof. Dr. Nabil Gadallah

Signature:
Date: 1/9/2014

Annual Course Report
Academic year 2013-2014

A- Basic Information

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.** 51 **%** 100
No. of students completing the course: **No.** 45 **%** 88.24
Results:

	No.	%		Grading of successful students:		
Passed	37	82.22			**No.**	**%**
Failed	8	17.78		**Excellent**	4	8.89
				Very Good	5	11.11
				Good	12	26.67
				Pass	16	35.56
				Failed	8	17.78

C- Professional Information

1 – Course teaching

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

Adequate to some extent .....

Inadequate .....

List any inadequacies 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): **Response of course team**

None **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 2014 – 2015

Actions required	Completion date	Person responsible
None	None	None

Course coordinator: Prof. Dr. Ahmed El Sanabary

Signature:

Date: 3/08/2014

Annual Course Report
Academic year 2013-2014

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.** 51 **100 %**
No. of students completing the course: **No.** 48 **94.12 %**

Results:

	No.	%
Passed	45	93.75
Failed	3	6.25

Grading of successful students:

	No.	%
Excellent	1	2.08
Very Good	6	12.5
Good	10	20.83
Pass	28	58.24

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecturer
	Plan.	Actual	
• Introduction, basic definitions and terminology	2	2	Prof. Dr. M Galal Rabie
• 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	
• Signal flow graphs; definition, conventions and Mason's formula	2	2	
• Time domain analysis			
➢ 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	
o 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 topics were taught which are not specified, give reasons in detail Non

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 assessment	**Percentage of total**
Written examination	100 points = 66.7 %
Oral examination	**----**
Practical/laboratory work	20 points = 13.3%
Other assignments/class work	15 points = 10 %
Mid-Term Exam	15 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	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

(a) Non

7- Comments from external evaluator(s):

Non

8- Course enhancement:

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.

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 2014 – 2015

Actions required	Completion date	Person responsible
1. adding more exercises, assignments reports and quizzes	End of summer term 2014-2015	Prof. M Galal Rabie

Course coordinator: Prof. Dr M. Galal RABIE
Signature:
Date: August 3, 2014

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 (Production Planning & Control)
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 (Modeling & Simulation)
13	M581	Advanced Manufacturing Processes
14	M599	Project 2

Annual Course Report
2014/2015

A- Basic Information

1- Title and code: (M598) Reports
2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc. Prog.
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.** 53 **%** 100
No. of students completing the course: **No.** 51 **%** 100
Results:

	No.	%
Passed	51	100
Failed	0	0

Grading of successful students:

	No.	%
Excellent	12	23.52
Very Good	9	17.64
Good	15	29.41
Pass	15	29.41

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Introduction	2	Dr. Elsayed kamar .
• Report	4	
• Typing instruction	4	
• References	4	
• Writing common engineering documents	4	
• Curriculum vitae (CV) and resume	4	
• Graduation projects	6	
Total hours	**28**	

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 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:
Seminar/Workshop: None
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:
None

3- Student assessment:

Method of assessment	Percentage of total
Written examination	70 %
Oral examination	----
Practical/laboratory work	----
Other assignments/class work	30 %
Total	100 %

Members of examination committee Dr. Elsayed kamar

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
None

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

List any criticisms
1. No student evaluation report .

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 2014 – 2015

Actions required	Completion date	Person responsible
None		

Course coordinator: Dr. Elsayed kamar

Signature:

Date: 1/4/2015

Annual Course Report
2014/2015

A- Basic Information

1- Title and code: (M561) Engineering Economics

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

- Manufacturing Engineering and Production Technology BSc. Program
- Electronic Engineering and Communication Technology BSc. Program
- Computer Engineering and Information Technology BSc. Program.

3- Year/Level of program: Fifth 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

Dr Abdelmagid A. Abdalla
Dr. Metwally H. Metwally

Course coordinator Dr. Abdelmagid A. Abdalla

External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 53 100%

No. of students completing the course: **No.** 50 94.33%

Results:

	No.	%
Passed	44	88
Failed	6	12

Grading of successful students:

	No.	%
Excellent	4	8
Very Good	3	6
Good	12	24
Pass	25	50

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Cash Flow	4	Dr. Abdelmagid A. Abdalla,
• Compound Interest:	12	
• Time Value of Money	4	
• Nominal and Effective Interest	4	
• Engineering Problem Analysis:	12	
• Depreciation	8	
• Tax effects	4	
• Breakeven point & payback period	-	
Total hours	**48**	

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. Metwally H. Metwally
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 critisms	Response of course team
- Some teaching assistants are not familiar enough with the course. - Interaction with students is needed to best follow the course	- Teaching assistants will be changed, and a follow- up system will be established. - This will be considered next year

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 2015– 2016

Actions required	Completion date	Person responsible

Course coordinator: Dr. Abdelmagid A. Abdalla
Signature:
Date: 1/4/2015

Annual Course Report
2014/2015

A- Basic Information

1- Title and code: M571: Computer Aided manufacturing (CAM)
2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc. Prog
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.** 53 **%** 100
No. of students completing the course: **No.** 50 **%** 100

Results:

	No.	%
Passed	50	78
Failed	11	22

Grading of successful students:

	No.	%
Excellent	4	8
Very Good	3	6
Good	9	18
Pass	23	46

C- Professional Information

1 – Course teaching

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 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 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, 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	**100%**
Members of examination committee	Prof. Dr. Atef 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

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

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

List any criticisms

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 Non

9- Action plan for academic year 2014– 2015

Actions required	Completion date	Person responsible
1. Provide more data show apparatuses		

Course coordinator: Prof. Dr. Atef Afifi
Signature:
Date: 25/4/2015

Annual Course Report
For Academic year 2014/2015

A- Basic Information

1- Title and code: ***Automation : M573***
2- Program(s) on which this course is given: Manufacturing Eng. and prod. Tech. BSc. Prog.
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: **53** **100%**
No. of students completing the course: **49** **92.45%**
Results:

	No.	%
Passed	44	98.79
Failed	5	10.20

Grading of successful students:

	No.	%
Excellent	2	4.08
Very Good	6	12.24
Good	11	22.45
Pass	25	51.02

C- Professional Information

1- Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer
• Automation economics	4			Prof. A.Kohail
• Analysis of automated lines	10	4	-	
• Line balancing	2	4	-	
• 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 taught as a percentage of the content specified:**
  >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:

Method of assessment	**Percentage 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 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):
None

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 2014– 2015

Actions required	**Completion date**	**Person responsible**
None		None

Course coordinator: Prof. Dr. A.M.Kohail
Signature:
Date: 1/4/2015

Annual Course Report
Academic year 2014-2015

A- Basic Information

1- Course Code & Title: (M578) Hydraulic Power Systems
2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc Program
3- Year/Level of program: Fifth Year/First 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
6- Course coordinator: Prof. Dr. M Galal Rabie
7- External evaluator: Non

B- Statistical Information

4- No. of students attending the course:	**No.**	**53**	**100**	**%**
5- No. of students completing the course:	**No.**	**50**	**94**	**%**

6- Results:

	No.	%
Passed	44	88
Failed	6	12

Grading of successful students:		
Grade	No.	%
Excellent	0	0
Very Good	8	18.2
Good	14	31.8
Pass	22	50

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecturers
	Plan.	Actual	
➢ Power systems, classification, operation, and comparison.	4	The effective teaching weeks during this semester were 12 with total of 84 hours. Therefore, a balanced reduction of teaching	Prof. Dr. M Galal Rabie
➢ Introduction to hydraulic power systems and standard symbols	10		
➢ Hydraulic fluids; properties and their effect on the system performance.	4		
➢ Hydraulic transmission lines and connectors	10		
➢ Hydraulic pumps:	4		
• Classification and basic mathematical relations	4		
• Gear pumps, vane pumps and piston pumps	4		
• Fixed and variable displacement pumps and pump control	4		
➢ Control valves	4		
• Classification and basic design			
• Pressure control valves (direct/pilot operated); relief valves, pressure reducers, sequence valves and accumulator charging valves	6		
• Directional control valves	4		
• Flow control valves	4		
• Check valves	5		
➢ Hydraulic actuators; cylinders, motors and rotary actuators	2		
➢ Accessories; accumulators, filters, reservoirs, pressure switches,…etc	4		

➢ Small project; design and analysis of the hydraulic system for an industrial application. Analysis of the possible operational problems...	6		
Total hours	105	84	

- 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: Non
- Achieved program intended learning outcomes, ILO's: Actually, all of the intended learning outcomes were achieved. The 20% obligatory cut of the net teaching hours was partially compensated by additional reports and seminars.

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: Non

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
2	Using NFPA educational CD for training on hydraulic power systems	4
3	Reading data sheets of hydraulic elements	4
4	Using Water as a Hydraulic Liquid	3

Technical Reports

SN	Title	Number of students
1.	Displacement pumps	2
2.	Rotodynamic Pumps	2
3.	Pressure Control Valves	2
4.	Flow rate control valves	2
5.	Hydraulic cylinders	2
6.	Electric Motors	2
7.	Hydraulic Motors	2
8.	Hydraulic Motors	2

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 and seminars	a1 to a5, b1 to b3, c1, c2 and c4 and d1 to d4	Bi-weekly	15	10
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	16th week	100	66.7

Total	150	100

Members of examination committee: Dr. M. Galal RABIE and Dr. Abdelmagid Abdelatif
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. Comment on the Examination results and feedback

* The exam paper header agrees with the MAM standard form
* The exam paper measures 65% of course ILO's measurable in written form and the variety of questions is practically balanced.
* The exam considers the course aims listed in the course specification.
* The exam level is practically convenient, considering the percentage of success.
* Low success percentage in questions 3 and 4 may be attributed to low attendance during the second half of semester. Moreover, it implies the need to develop new plans to encourage the students, or oblige them, to attend the late term activities.
* The exam result shows considerable weakness in hand sketching and report writing and English language level.

7- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	Non	

8- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	

9- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment
Non		

10- Action plan for academic year 2015 – 2016

Actions required	**Completion date**	**Person responsible**
None		

Course coordinator: Prof. Dr M Galal Rabie
Signature:
Date: July 24, 2015

Annual Course Report
For Academic year 2014/2015

A- Basic Information

1- Title and code: Modeling & Simulation (Elective II)*:* M580a
2- Program(s) on which ths course is given: Manufacturing Eng. and prod. Tech. BSc Prog.
3- Year/Level of program: 5th year Manufacturing Technology / 2nd term
4- Unit hours Lectures: 2 hrs Tutorial: 2hrs Practical: ----- Total: 4 hrs
5- Names of lecturers contributing to the delivery of the course:

Dr Mohamed Saad Abdelkarim
Course coordinator: Dr Mohamed Saad Abdelkarim
External evaluator: None

B- Statistical Information

No. of students attending the course: **53**
No. of students completing the course: **50**
Results:

	No.	%
Passed	49	98
Failed	1	2

Grading of successful students:

	No.	%
Excellent	9	18
Very Good	18	36
Good	9	18
Pass	13	26

C- Professional Information

1- Course teaching

Topic	Lecture hours	Tutorial hours	Practical 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**	

Topics taught as a percentage of the content specified:

>90 % 92 **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:** 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 and give reasons:
None

3- Student assessment:

Method of assessment	Percentage of total
Written examination	60
Oral examination	
Practical/laboratory work	
Other assignments/class work	20
Mid-Term Exam	20
Total	**100 %**
Members of examination committee	Prof. Dr. Bakr M. Rabee & Dr. M. S. Abdelkarim
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
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 2014 – 2015

Actions required	Completion date	Person responsible
None		None

Course coordinator: Dr Mohamed Saad Abdelkarim
Signature:
Date: **1/8/**2015

Annual Course Report

2014/2015

A- Basic Information

1- Title and code: (M598) Reports
2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc.Prog.
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.** 53 100%
No. of students completing the course: **No.** 51 100%
Results:

	No.	%
Passed	51	100
Failed	0	0

Grading of successful students:

	No.	%
Excellent	12	23.52
Very Good	9	17.64
Good	15	29.41
Pass	15	29.41

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Introduction	2	Dr. Elsayed kamar
• Report	4	
• Typing instruction	4	
• References	4	
• Writing common engineering documents	4	
• Curriculum vitae (CV) and resume	4	
• Graduation projects	6	
Total hours	**28**	

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 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:

Seminar/Workshop: None
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:
None

3- Student assessment:

Method of assessment	Percentage of total
Written examination	70 %
Oral examination	----
Practical/laboratory work	----
Other assignments/class work	30 %
Total	100 %

Members of examination committee Dr. Elsayed kamar
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 operating experiments in the laboratory**

6- Student evaluation of the course: **Response of course team**
List any criticisms
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 2015 – 2016

Actions required	Completion date	Person responsible
None		

Course coordinator: Dr. Elsayed Kamar
Signature:
Date: 1/4/2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information

1- Title and code: Laws and Regulations For Engineers, B 512
2- Program(s) on which this course is given: Manufacturing Engineering and Production Technology.
3- Year/Level of program:5th year, 2nd 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 Dr. Ghada salem
External evaluator:- Non

B- Statistical Information

No. of students attending the course: **No.** **53** **%** 100
No. of students completing the course: **No.** **51** **%** 96.22
Results:

	No.	%
Passed	51	100
Failed	0	0

Grading of successful students:

	No.	%
Excellent	8	15.68
Very Good	13	25.49
Good	20	39.2
Pass	10	19.6

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• مصطلحات ومفاهيم قانونيه	٥	Dr.Ghada salemyar
• التشريعات الصناعيه المصريه	٥	
• قوانين وتشريعات اعمال البناء والتخطيط العمرانى	٥	
• قوانين وتشريعات بيئيه لحمايه البيئه المصريه	٥	
• المناقصات والعطاءات	٥	
• قانون تنظيم المناقصات والمزايدات	٥	
• العقود الهنديه المحليه	٥	
• العقود الهندسيه الدوليه	٥	
• المطالبات والتحكيم	٥	
Total hours	**45**	

Topics taught as a percentage of the content specified:
>90 % √ **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

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

9- Action plan for academic year 2015– 2016

Actions required	Completion date	Person responsible
Non		Non

Course coordinator: Dr. Ghada Salem
Signature:
Date: August .2015

Annual Course Report
2014/2015

A- Basic Information

1- Title and code: B572 : Pollution and Society
2- Program(s) on which this course is given: Comm. Dept and Comp Dept.
3- Year/Level of program: five Year
4- Unit hours Lectures 2hrs Tutorial - hrs Practical - hr Total 2 hrs
5- Names of lecturers contributing to the delivery of the course
Assist. Prof. Dr. S. Guoda
External evaluator. Non

B- Statistical Information

No. of students attending the course: **No.** **53** **%** 100
No. of students completing the course: **No.** **51** **%** 96.22
Results:

Passed	**51**	**% 100**
Failed	**0**	**% 0**

Grading of successful students:

	No	%
Excellent	27	52.94
Very Good	14	27.45
Good	6	11.76
Pass	4	7.84

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Population Growth and the Environment	5	
• Energy	7	
• Technology Transfer	6	
• Air Pollution	8	
• Water Pollution	4	
• Noise Pollution	6	
• Environmental Impact Assessment and the Egypt law No.4 of 1994 on the Environment.	6	
• Final Revision	3	
Total hours	**45**	

Topics taught as a percentage of the content specified: **> 90%**
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:
Practical training/ laboratory:
Seminar/Workshop: Non
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:
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. S.Gouda
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

- Limitation of number of data show in the principal building

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

List any criticisms

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 Non

9- Action plan for academic year 2015 – 2016

Actions required	Completion date	Person responsible

Course coordinator: Prof. S.Gouda
Signature:
Date: August 2015

Annual Course Report
2014/2015

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
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. Atef Afifi
Course coordinator Prof. Dr. Atef Afifi
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 53 100%
No. of students completing the course: **No.** 49 92.45%
Results:

	No.	%
Passed	46	93.8
Failed	3	.6.122

Grading of successful students:

	No.	%
Excellent	7	14.28
Very Good	10	20.41
Good	15	30.61
Pass	14	28.57

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Fundamentals of CIM	2	Prof. Dr. Atef Afifi
Material Handling Systems	8	
Automatic Guided vehicles	6	
Robotics	18	
Flexible Manufacturing systems	10	
Adaptive control of manufacturing systems (FMS)	6	
On-Line Monitoring	6	
Just-In-Time (JIT)	6	
Direct Numerical Control (DNC)	2	
Part programming using different controller	16	
Computer aided part programming	18	
Total hours	**98**	

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 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, 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	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 principal building**

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

List any criticisms 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 Non

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
None		

Course coordinator: Prof. Dr. Atef Afifi

Signature:

Date: 25/7/2015

Annual Course Report
For Academic year 2014/2015

A- Basic Information

1- Title and code: Quality Control: M574
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 Practical: 2hrs Total: 6 hrs
5- Names of lecturers contributing to the delivery of the course:

Dr. Mohamed Saad Abdelkarim
Course coordinator: Dr Mohamed Saad Abdelkarim
External evaluator: None

B- Statistical Information

No. of students attending the course: 53
No. of students completing the course: 50
Results:

	No.	%
Passed	44	88
Failed	6	12

Grading of successful students:

	No.	%
Excellent	4	8
Very Good	13	26
Good	14	28
Pass	13	26

C- Professional Information

1- Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer
• Introduction to quality	2			Dr. Mohamed Saad
• 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	
• **Total hours**	30	30	30	

- **Topics taught as a percentage of the content specified:**
  >90 % **70-90 %** **87** **<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:

Method of assessment	**Percentage of total**
Written examination	60
Oral examination	
Practical/laboratory work	10
Other assignments/class work	10
Mid-Term Exam	20
Total	**100 %**

Members of examination committee Dr. Mohamed saad Abdelkarim
Role of external evaluator None

4- Facilities and teaching materials:

- **Totally adequate**
- **Adequate to some extent** Yes
- **Inadequate** .....
- **List any inadequacies** Minitab software

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 2015 – 2016

Actions required	**Completion date**	**Person responsible**
Obtaining Minitab software	1/2/2016	

Course coordinator: Dr. Mohamed Saad Abdelkarim
Signature:
Date: 1/8/2015

Annual Course Report
2014/ 2015

A- Basic Information

1- Title and code: ***M580: Production Planning & Control***
2- Program(s) on which this course is given: Manufacture
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:
Dr Mohamed Saad Abdelkarim
Course coordinator: Dr Mohamed Saad Abdelkarim
External evaluator: None

B- Statistical Information

No. of students attending the course: **53** **100%**
No. of students completing the course: **53** **100%**
Results:

	No.	%
Passed	47	88.67
Failed	6	11.32

Grading of successful students:

	No.	%
Excellent	0	0
Very Good	11	20.75
Good	12	22.64
Pass	24	45.28

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		Prof. Dr. M. Merdan
Forecasting techniques, seasonality, accuracy, and control	4	4		
Aggregate planning, and materials requirement plan (MRP),	4	4		
Assignment and manufacture scheduling techniques,	4	4		
Work systems design,	4	4		
Choice of site location, facilities selection and layout techniques.	4	4		
Quality definitions and control techniques,	4	4		
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
- **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	**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 Mohamed Saad Abdelkarim
Role of external evaluator None

4- Facilities and teaching materials:

- **Totally adequate** **Yes**
- **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 qualified mathematician before teaching this course.
This difficulty will be considered in the credit hour system.

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	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 2015 – 2016

Actions required	**Completion date**	**Person responsible**
		None

Course coordinator: Dr Mohamed Saad Abdelkarim
Signature: Dr Mohamed Saad Abdelkarim
Date: 6/3/2015

Annual Course Report
2014/2015

A- Basic Information

1- Title and code: M581: Advanced Manufacturing Processes
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 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: **53** **100%**
No. of students completing the course: **49** **92.45%**
Results:

	No.	%
Passed	45	91.84
Failed	4	8.16

Grading of successful students:

	No.	%
Excellent	2	4.08
Very Good	11	22.44
Good	10	20.41
Pass	22	44.89

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:**
  >90 % 93 **70-90 %** **<70%** ….
- **Reasons in detail for not teaching any topic: - reduced hours due to extra vacations**
- **-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**
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 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):

	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 2015 – 2016

Actions required	**Completion date**	**Person responsible**
None		

Course coordinator: Prof. Dr. A.Kohail
Signature:
Date: 1/8/2015

Annual Course Report
2014/2015

A- Basic Information

1- Title and code: (M599) Graduation Project
2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc. Prog
3- Year/Level of program: Fifth Year Manufacturing Eng. & Prod. Tech,
4- Unit hours Lectures [---] Tutorial [---] Practical [2] Total [2 hrs] First 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 lecturers contributing to the delivery of the course
All the teaching Staff of the department
Course coordinator Dr. Abdelmagid A. Abdalla
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** [53] **%** [100]
No. of students completing the course: **No.** [52] **%** [98.11]

Results:

	No.	%
Passed	52	100
Failed	0	0

Grading of successful students:

	No.	%
Excellent	27	51.92
Very Good	19	36.53
Good	4	7.69
Pass	2	3.84

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Collection & technical data	According to the subject of the project	All the teaching staff of the department
Collection & theoretical background		
Design and Technological procedures		
Problem solving		
Realization & design		
Testing and inspection		
Design & experiment		
Writing technical report		
Follow up & technical work		
Assembly & components		
Presenting the product data		
Evaluation & product efficiency		
Collection & technical data		
Total Hours	**108**	

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 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: None

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	-----%
Oral examination	25%
Practical/laboratory work	25%
Other assignments/class work	50 %
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	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
- NA	- NA

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

8- Course enhancement:

9- Action plan for academic year 2015 – 2016

Actions required	**Completion date**	**Person responsible**
None		

Course coordinator: Dr. Abdelmagid A. Abdalla
Signature:
Date: August /2015