Manufacturing Engineering and Production Technology B.Sc.

Program Report

2011-2012

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Manufacturing Engineering and Production Technology

PROGRAM REPORT

April 2013

1. General

1.1 Basic Information

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

1.2 External Evaluators:

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

Comments of external evaluator and other stakeholders

a) Comments of stakeholders:

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

b) Comments of external evaluator

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

1) First Evaluator

Refer to previous report (2010/2011)

2) Second Evaluator

Refer to previous report (2010/2011)

2. Professional Information

2.1 Statistics

1-No. of students starting the program at 2008-2009: 117 (students accepted in the Academy the academic year 2007-2008 were 1331 students with a ratio 8.79 %
2-Ratio of students` attending the program in 2011-2012 to those of accepted in the Academy the academic year 2007-2008: 102/1331 = 7.66 %
3-No. and percentage of students passing in each year for the students graduated in 2012

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	2008-2009	117	78	66.66 %
Third	2009-2010	103	82	79.61 %
Fourth	2010-2011	92	78	84.87 %
Fifth	2011-2012	102	88	86.27 %

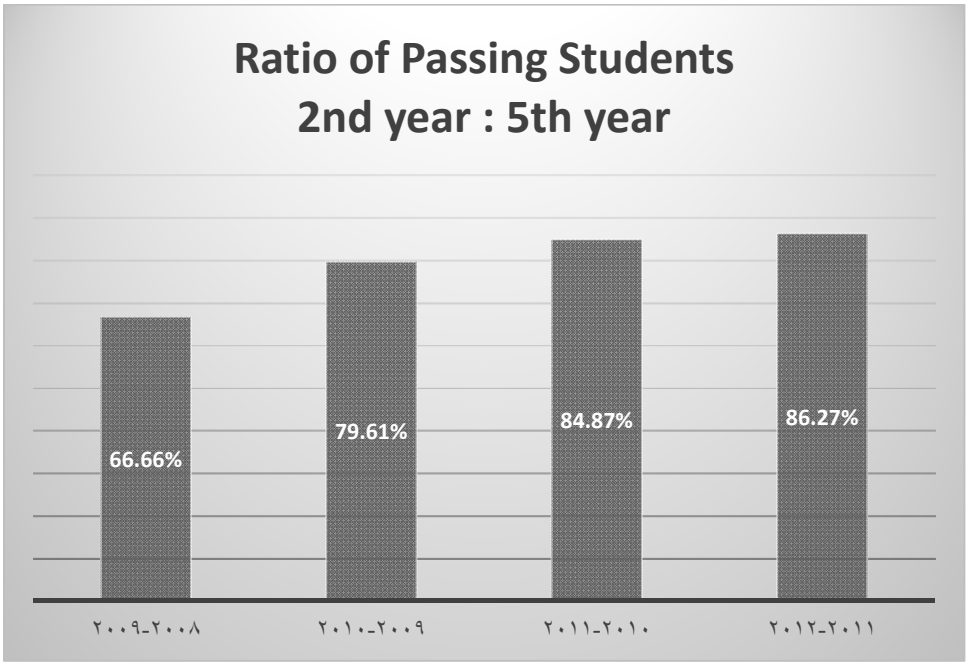

Figure (1): Ratio of students (graduated in 2011) passing in each year/level/semester

4-No. of students completing the program and as a percentage of those who started:
88 / 117= 75.2 %

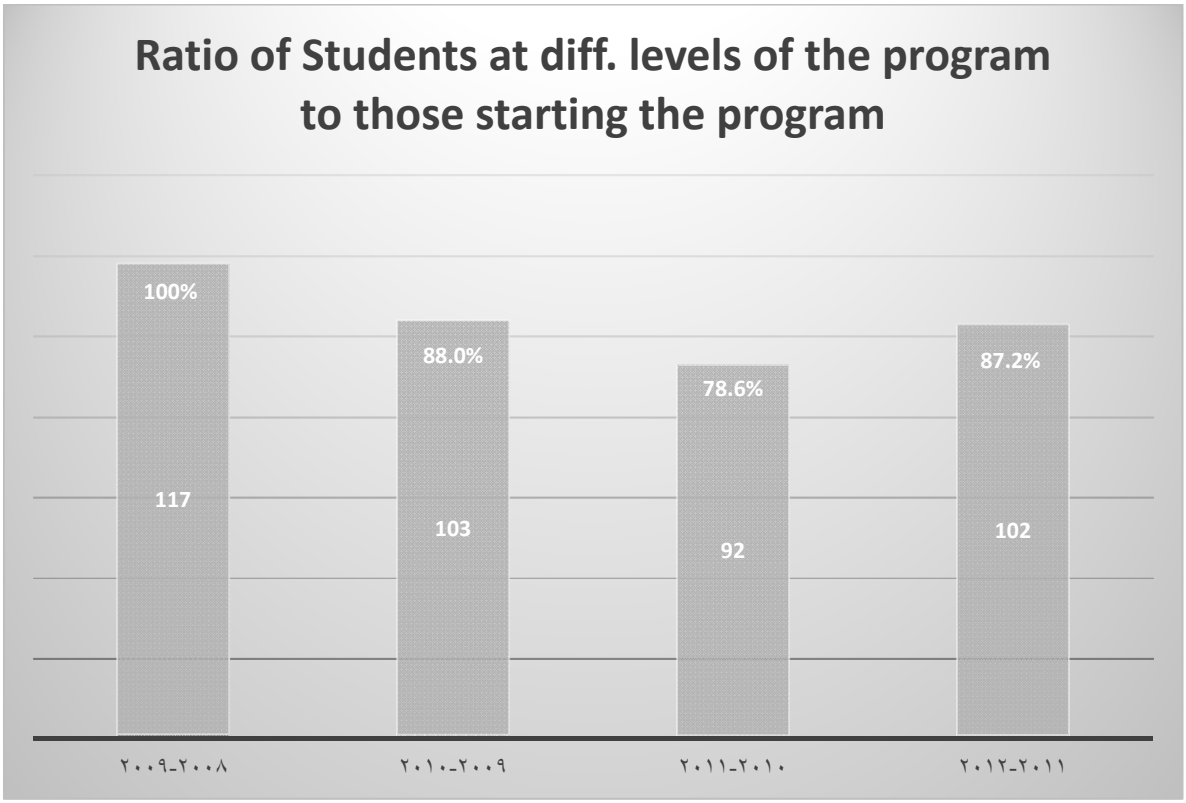

Figure (2): No. of students completing the program and as a percentage of those who started

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 2008-2009	117	4	18	6	50	39
%	100%	3.4 %	15.4 %	5.3 %	42.7 %	33.3 %
3rd year 2009-2010	103	7	9	13	53	21
%	100%	6.8 %	8.7 %	12.6 %	51.4 %	20.4 %
4th year 2010-2011	92	5	10	10	53	14
%	100%	5.43 %	10.9 %	10.9 %	57.65 %	15.2 %
5th year 2011-2012	102	6	13	20	49	14
%	100%	5.9 %	12.74 %	19.6 %	48.07 %	13.7 %

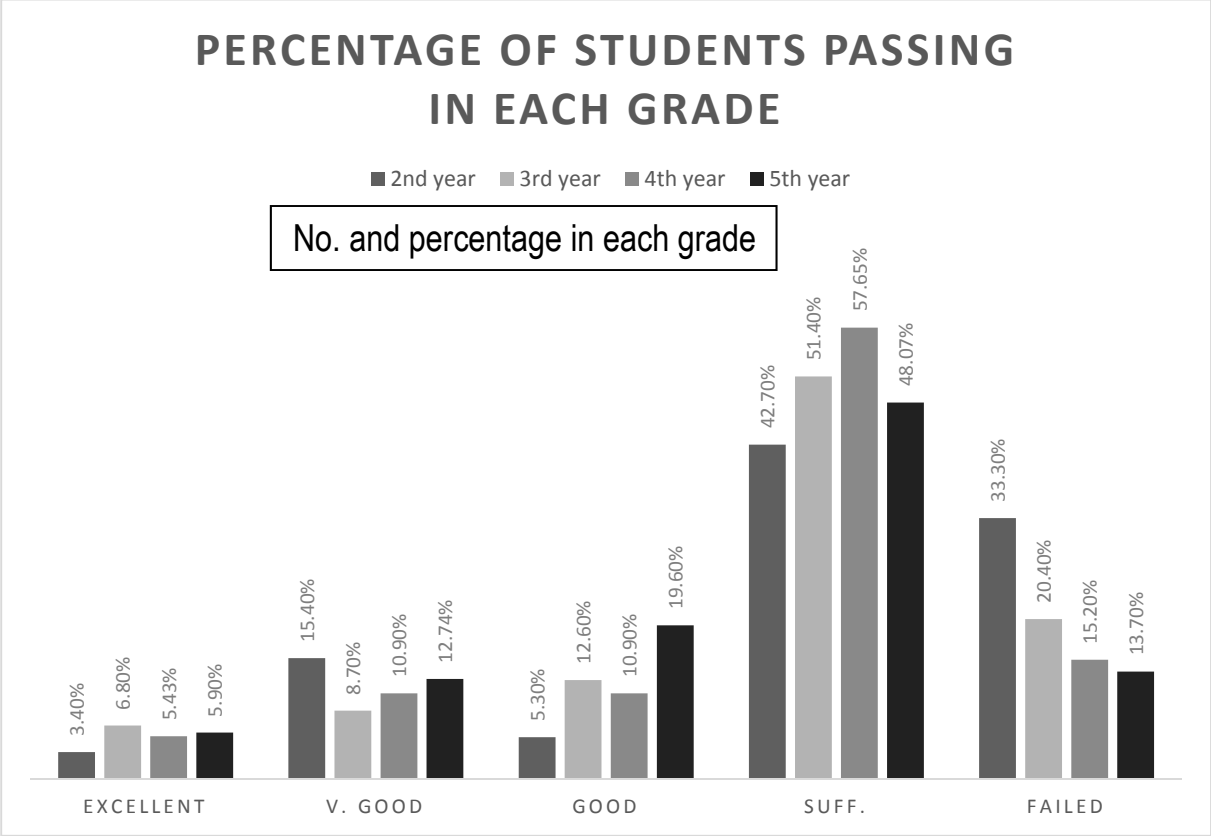

Figure (3): No. and percentage of students passing in each grade

Academic year	Number	Percentage
students joining the program on Sept 2011	102	100%
students completing the program at May 2012	66	64.7%
students completing the program at Nov 2012	22	21.57%
Total Number of students completing the program at 2012	88	86.27%

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 2010-2011 (295 students)	6	5.9%	13	12.74%	20	19.6%	47	46.07%	14	13.7%

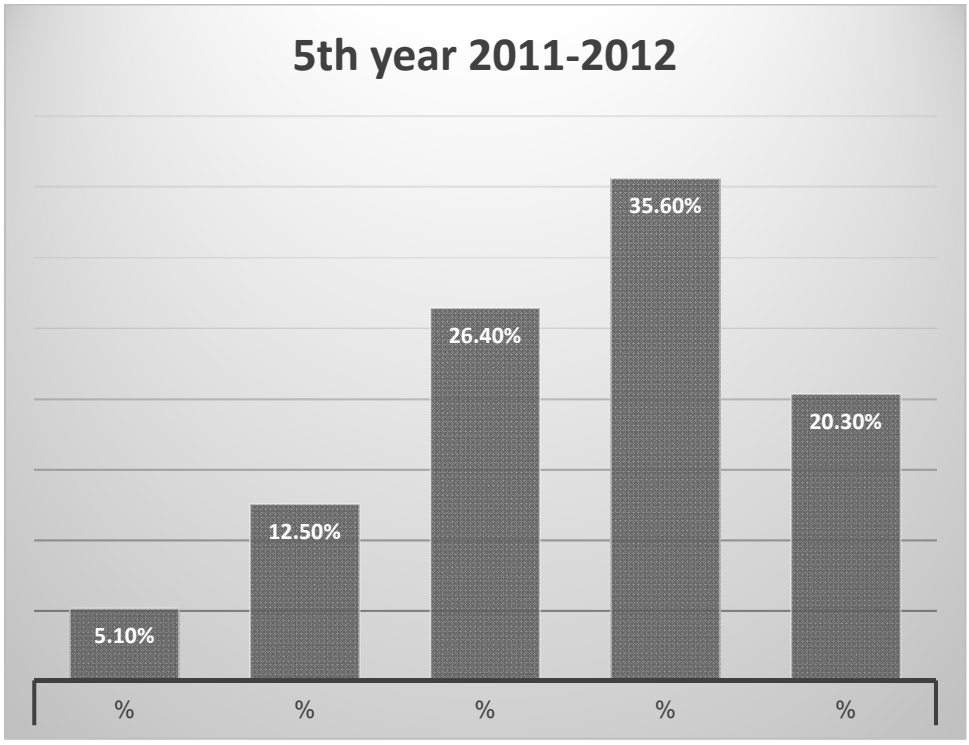

Figure (4): No. and percentage of students passing in each grade 5th year

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
M310 a	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
M310 b	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 tables, it is observed that the achievement of program intended learning outcomes are covered by all courses taught

Comments of external evaluator and other stakeholders

1- Basic Information

a) Comments of stakeholders:

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

b) Comments of external evaluator

1) First Evaluator

Refer to previous report (2010/2011)

2) Second Evaluator

Refer to previous report (2010/2011)

2- Professional Information

a) Comments of stakeholders:

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

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

b) Comments of external evaluator

1) First Evaluator

Refer to previous report (2010/2011)

2) Second Evaluator

Refer to previous report (2010/2011)

3- Regulation & Evaluation

a) Comments of stakeholders:

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

b) Comments of external evaluator

1) First Evaluator

Refer to previous report (2010/2011)

2) Second Evaluator

Refer to previous report (2010/2011)

4- Program Courses

a) Comments of stakeholders:

Program courses were very well prepared. Courses specifications include listing of lecture notes, in addition to reference books and recommended references.
The data of some references should be updated and be in the standard form according to the formal form used in course specification.
Minor topics should be changed and repetitions of the same topic in different courses should be resolved.

b) Comments of external evaluator

1) First Evaluator

Refer to previous report (2010/2011)

2) Second Evaluator

Refer to previous report (2010/2011)

5- Overall Evaluator Opinion & Free Comments

a) Comments of stakeholders:

None

b) Comments of external evaluator

1) First Evaluator

Refer to previous report (2010/2011)

2) Second Evaluator

Refer to previous report (2010/2011)

2.3 Achievement of program aims

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

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

2.4 Assessment methods

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

2.5 Student achievement

Graduated Students achievement through the program

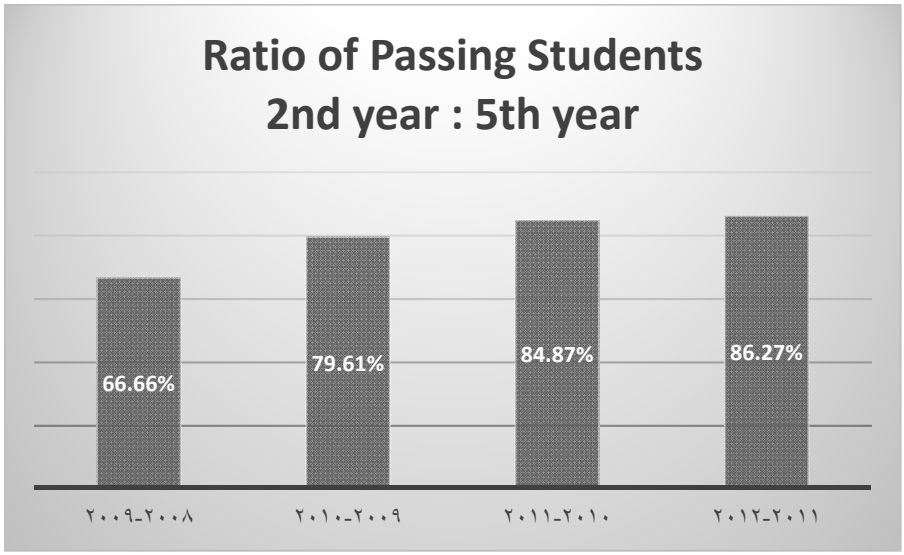

Figure (5): Graduated Students achievement through the program

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

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

a- Comments of stakeholders:

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

b- Comments of external evaluators :

1- First Evaluator

Refer to previous report (2010/2011)

2- Second Evaluator

Refer to previous report (2010/2011)

2.6 Quality of teaching and learning

Comments of external evaluator and other stakeholders including students

a- Comments of stakeholders

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

b- Comments of external evaluators :

1- First Evaluator

Refer to previous report (2010/2011)

Second Evaluator

Refer to previous report (2010/2011)

2.7 Effectiveness of student support systems

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

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

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

2.8 Learning resources

A. Number and ratio of faculty members and their assistants to students

- Staff members and the assistants (Appendix 1 - Program Specification)
- Percentage of staff members to students : 1:25
- Percentage of staff assistants to students : 1:15

B. Matching of faculty members' specialization to program needs.

- All the Staff members are Qualified and they are adapted with the program requirements. (C.V. for all staff members are included in Appendix 1 - Program Specification)

C. Availability and adequacy of program handbook

- The program specification is explained to the students attending the program through interviews with the students, in addition there are lecture notes for most of the courses available to the students.

D. Adequacy of library facilities.

- The academy scientific library is annually refurbished with the books needed for enriching the specialty according to the budget.

E. Adequacy of laboratories

- The department has 18 laboratories serving different courses taught in the department.

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

F. Adequacy of computer facilities

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

G. Adequacy of field/practical training resources

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

H. Adequacy of any other program needs

None

2.9 Quality management

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

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

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

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

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

Strengthening activities for Quality Management

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

- The continued development of the courses objectives with global trends.
- Developing the skills of the administrative apparatus in the use of technology.
- Prepare an annual plan for periodic maintenance of institutional facilities.
- Preparation of a 3 year plane to hire staff members and assistances to modify the their ratios to the number of students.

B. Effectiveness of the system

The quality management system is effective since there are:

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

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

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

D. Effectiveness of program external evaluation system:

I- External evaluators

The department program is evaluated by two qualified external evaluators.

II- Students

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

III- Other stakeholders

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

E. Faculty response to student and external evaluations

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

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

3. Proposals for program development

A. Program structure (units/credit-hours)

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

B. Courses, deletions, additions, and modifications

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

C. Staff development requirements

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

4. Progress of previous year's action plan

Action Identified	Person Responsible	Progress of action
Two staff members have been added to the department	Administration of the academy	Done
Two Assistants have been added to the department	Administration of the academy	Done
Credit Hours system	Adminstarion of the academy and approval of the ministry of higher education	**Done**

5. Action plan

Action required	Person Responsible	Completion Date
Preparation of the program specification for the credit hour system and reviewing it.	The department and the Administration of the Academy	Academic year 2013-2014
Specialized training courses for all staff and teaching assistants	Training Sector of the Academy	September 2012/2013
Complete the shortage in education staff. (According to the plane one Staff member and 2 teaching assistants).	Administration of the Academy	Academic year 2012-2013

Program Coordinator Dr. Abdelmagid A. Abdalla

Signature:

Appendix 1

Annual Course Report

2011-2012

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	E112	Introduction to Computer II
14	M151	Engineering Drawing & Projection II
15	M161	Production Engineering II

Annual Course Report

(Academic Year 2007-2008)

A- Basic Information

1- Title and code: B101: English Language (1)
2- Program(s) on which this course is given: Computer and Tech. English
3- Year/Level of program: First year / 1st Semester
4- Unit hours Lectures [---] Tutorial [2 hrs] Total [2 hrs]
5- Names of lecturers contributing to the delivery of the course
Abdel-Hamid Mohammed El-Khoreby
Course coordinator: Abdel-Hamid Mohammed El-Khoreby
External evaluator Non

B- Statistical Information

No. of students attending the course: **No.** [1314] **%** [100]
No. of students completing the course: **No.** [1233] **%** [92.54]

Results:	**No.**	**%**
Passed	1144	92.78
Failed	89	7.21

Grading of successful students:

	No.	**%**
Excellent	121	9.82
Very Good	203	16.46
Good	243	19.70
Pass	577	46.79

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

2- Teaching and learning methods:

Lectures: [Classical lecturing using the white board]
Practical training/ laboratory: [Non]
Seminar/Workshop: [Non]
Class activity: A monthly discussion of what is given in the previous weeks.
Case Study: [Non]
Other assignments/homework: [Bi-weekly assignments]
If teaching and learning methods were used other than those specified, list and give reasons:
Non

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

Method of assessment	**Percentage of total: 30%**
Written examination	70 %
Oral examination	**----**
Other assignments/class work	10 %
Mid-Term Exam	20 %
Total	**100 %**

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

Role of external evaluator Non

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

Totally adequate	**.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**
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 2008 – 2009

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

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

Annual Course Report
2007-2008

A- Basic Information

1- Title and code: Math. I, Differential Calculus and Modern Algebra (B111)
2- Program(s) on which this course is given: Basic Science
3- Year/Level of program: 1st Year (General) 1st Semester
4- Unit hours Lectures 4 hrs Tutorial 2 hrs Practical -hr Total 6 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. M. El-Maddah , Prof Dr. O. Elgayar, Prof Dr. Aly Essway,
A. Prof. Dr. M. Khalifa
Course coordinator A. Prof. Dr. M. Khalifa
External evaluator

B- Statistical Information

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

Results:	**No.**	**%**
Passed	1041	84.16
Failed	196	15.84

Grading of successful students:

	No.	**%**
Excellent	284	22.96
Very Good	156	12.61
Good	159	12.86
Pass	442	35.73

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

2- Teaching and learning methods:

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

Class activity: Numerical exercises
Case Study: Selected case studies
Other assignments/homework: By-weekly assignments

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

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	70 %
Oral examination	**----**
Practical/laboratory work	%
Other assignments/class work	10 %
Mid-Term Exam	20%
Total	**100 %**

Members of examination 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

6- Student evaluation of the course:

List any criticisms	**Response of course team**
1. Problems with the teaching assistant in exercises	New teacher assistant will be engaged the next academic year.
2. A proposal to extend the subject and lecture it in two successive semesters	The actual content and number of lecturing hours are convenient now, considering the re-determined graduate profile

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

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

9- Action plan for academic year 2008 – 2009

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

Course coordinator: A.Prof. Dr. M. Khalifa
Signature:
Date: Aug. 2008

Annual Course Report
2007-2008

A- Basic Information

1- Title and code: ***B121: Mechancis (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 3 hrs
5- Names of lecturers contributing to the delivery of the course
: Prof. Dr. Hassan Awad
Prof. Dr. Mahmoud El-Maddah
Course coordinator : Prof. Dr. Hassan Awad
External evaluator : Non

B- Statistical Information

No. of students attending the course: **No. 1229** **% 100**
No. of students completing the course: **No. 1229** **%100**
Results:

	No.	%
Passed	853	69.41
Failed	376	30.59

Grading of successful students:

	No.	%
Excellent	32	2.60
Very Good	74	6.02
Good	133	10.82
Pass	614	49.96

C- Professional Information

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

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and computer supported learning
Practical training/ laboratory: Non
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	70 %
Oral examination	----
Practical/laboratory work	
Other assignments/class work	15 %
Mid-Term Exam	15 %
Total	**100 %**

Members of examination committee Prof. Dr. Hassan Awad
Prof. Dr. Mahmoud El-Maddah
Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate	**.Yes.**
Adequate to some extent	**100%**
Inadequate	**.....**
List any inadequacies	Non

5- Administrative constraints

List any difficulties encountered

- New assistants needs more preparation

6- Student evaluation of the course:

List any criticisms	**Response of course team**
➢ New assistants make some mistakes in solution of problems	New assistants attend lectures and all exercises are Supervised by professors

7- Comments from external evaluator(s): Non
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 2009– 2010

Actions required	Completion date	Person responsible
Preparation of the course by new assistants	Nov.2008	Prof. Dr. Mahmoud El-Maddah

Course coordinator: **Prof. Dr. Hassan Awad**
Signature:
Date: Nov.2008

Annual Course Report
2007-2008

A- Basic Information

1- Title and code: B131 Physics 1 (Properties of matter ,heat ,thermodynamics and sound waves)
2- Program(s) on which this course is given: General
3- Year/Level of program: 1 st. year , 1 st. term .
4- Unit hours Lectures 4 hrs Tutorial 0 - Practical 2hr Total 6 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. M. El-Tawab Kamal.
Prof. Dr. Abo Elyazeed Badawy Abo Elyazeed.
Course coordinator : Dr. M. El Tawab Kamal.
External evaluator : Non

B- Statistical Information

No. of students attending the course: **No. 1231 100 %**
No. of students completing the course: **No. 1231 100 %**
Results:

	No.	%
Passed	996	80.91
Failed	235	19.09 %

Grading of successful students:

	No.	%
Excellent	50	4.06
Very Good	177	14.38
Good	303	24.61
Pass	466	37.86

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: Non
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: 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 Dr. M. El Tawab Kamal.
Dr. Abo El Yazeed Badawy Abo El Yazeed.

Role of external evaluator Non

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

7- 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):	**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

8- Action plan for academic year 2009 – 2010

Actions required	Completion date	Person responsible
1. Provide more data show apparatuses	Nov.2008	Prof. Dr M. El Tawab Kamal
2. Put more experiments in function in the lab.		

Course coordinator: Prof. Dr M. El Tawab Kamal
Signature:
Date: Nov. 2008

Annual Course Report
2007-2008

A- Basic Information

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

B- Statistical Information

No. of students attending the course: **No.** **1233** **%** 100
No. of students completing the course: **No.** **1233** **%** 100

Results:

	No.	%
Passed	1066	86.46
Failed	167	13.54

Grading of successful students:

	No.	%
Excellent	188	15.25
Very Good	198	16.06
Good	217	17.60
Pass	463	37.55

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
Non

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: Non
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 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:

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): Non

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 2009 – 2010

Actions required	**Completion date**	**Person responsible**
Provide more data show apparatuses	Nov.2008	Prof. Dr. S. R. Gouda

Course coordinator: Prof. Dr. S. R. Gouda
Signature:
Date: Nov.2008

Annual Course Report
2007-2008

A- Basic Information

1- Title and code :(E111) Introduction to Computer 1
2- Program(s) on which this course is given: 1st year General
3- Year/Level of program: 1st year-1st semester
4- Unit hours Lectures 2 hrs Tutorial 0 hrs Practical 2 hr Total 4 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Said A. Gawish
Course coordinator Prof. Dr. Said A. Gawish
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 1130 **%** 100
No. of students completing the course: **No.** 1097 **%** 97.07

Results:

	No.	%
Passed	983	89.6
Failed	114	10.3

Grading of successful students:

	No.	%
Excellent	146	13.3
Very Good	169	15.8
Good	218	19.8
Pass	450	41

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	**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 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: None

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

9- Action plan for academic year 2009-2010

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

Course coordinator: Prof. Dr. Said A.Gawish
Signature:
Date: 9 / 2008

Annual Course Report
2007-2008

i. Basic Information

1- Title and code: (M 150)- Engineering graphics (1)
2- Program(s) on which this course is given: 1st year General
3- Year/Level of program: 1st year , 1 st semester .
4- Unit hours Lectures 1 hrs Tutorial 4 hrs Practical - Total 5 hrs
5- Names of lecturers contributing to the delivery of the course

	Prof. Dr. Mamdouh Saber
Course coordinator	Prof. Dr. Mamdouh Saber
External evaluator	None

B- Statistical Information

No. of students attending the course: **No.** 1130 **%** 100
No. of students completing the course: **No.** 1093 **%** 96.7

Results:

	No.	%
Passed	918	83.9
Failed	175	16.1

Grading of successful students:

	No.	%
Excellent	102	9.3
Very Good	118	10.7
Good	170	15.5
Pass	528	48.3

C- Professional Information

1 – Course teaching

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

Topics taught as a percentage of the content specified:
>90 % √ **70-90 %** ☐ **<70%** ….
Reasons in detail for not teaching any topic
Actual no. of teaching weeks for 1st term was 12 weeks in addition to a midterm exam week
If any topics were taught which are not specified, give reasons in detail Non

2- Teaching and learning methods:

Lectures: Using white board and OHB Black board
Practical training/ laboratory: None
Seminar/Workshop: Non
Class activity: Drawing of several problem weekly using traditional method and free hand sketches
Case Study: selected cases
Other assignments/homework: weekly

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

3- Student assessment:

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

Members of examination committee Prof . Dr. Mamdouh Saber
Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	.....
Inadequate	.....
List any inadequacies	

5- Administrative constraints

List any difficulties encountered

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

6- Student evaluation of the course:

List any criticisms	Response of course team

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

NONE

8- Course enhancement:

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

9- Action plan for academic year 2008 – 2009

Actions required	Completion date	Person responsible
. NONE		

Course coordinator: Prof. Dr Mamdouh Saber
Signature:
Date: **9/2008**

Annual Course Report
2007-2008

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** -- **Practical** 4 hrs **Total** 5 hrs
5- Names of lecturers contributing to the delivery of the course:
Prof. Dr. M. Merdan
Prof. Dr. A. Kohail
Course coordinator: Prof. Dr. M. Merdan
External evaluator: None

B- Statistical Information

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

	No.	%
Passed	1053	84.80
Failed	189	15.20

Grading of successful students:

	No.	%
Excellent	136	11.00
Very Good	187	15,10
Good	242	19.50
Pass	488	39.30

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical Hours
Lecture Part: Every other week	**14**	**12**	**44**
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 %
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 non-completion** None

9- Action plan for academic year 2008– 2009

Actions required	Completion date	Person responsible
Preparation of new materials and cutting tools required for carrying out the practical work in each shop	Feb. 2008	Prof. Dr. B. Sarangawy

Course coordinator: Prof. Dr. M. Merdan
Signature: M. Merdan
Date: 23 / 3 /2009

Annual Course Report
(Academic Year 2007-2008)

A- Basic Information

1- Title and code: B102: English Language (2)
2- Program(s) on which this course is given: Computer and Tech. English
3- Year/Level of program: First year / 2nd Semester
4- Unit hours 2
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.** 1314 **%** 100
No. of students completing the course: **No.** 1202 **%** 88.4
Results:

	No.	**%**
Passed	859	79.20
Failed	250	20.77

Grading of successful students:

	No.	**%**
Excellent	66	5.49
Very Good	100	8.32
Good	149	12.39
Pass	637	53.00

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

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board
Practical training/ laboratory: Non
Seminar/Workshop: Non
Class activity: A monthly discussion of what is given in the previous weeks.
Case Study: Non
Other assignments/homework: Bi-weekly assignments

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

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

Method of assessment	**Percentage of total: 30%**
Written examination	70 %
Oral examination	**----**
Other assignments/class work	10 %
Mid-Term Exam	20 %
Total	**100 %**

Members of examination committee Abdel-Hamid Mohammed El-Khoreby
Role of external evaluator Non

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

Totally adequate	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**
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 2008 – 2009

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

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

Annual Course Report
2007-2008

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: Basic Science
3- Year/Level of program: 1st Year (General) 2nd Semester
4- Unit hours Lectures 4 hrs Tutorial 2 hrs Practical hr Total 6 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Ossama Elgayar, Prof Dr. Aly Essway, A. Prof. Dr. M. Khalifa
Course coordinator A. Prof. Dr. M. Khalifa
External evaluator

B- Statistical Information

No. of students attending the course: **No. 1205** **%** 100
No. of students completing the course: **No. 1205** **%** 100

Results:

	No.	%
Passed	930	77.18
Failed	275	22.82

Grading of successful students:

	No.	%
Excellent	100	8.3
Very Good	127	10.54
Good	126	10.46
Pass	577	47.88

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, 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
- Limitation of number of operating experiments in the laboratory

6- Student evaluation of the course:

List any criticisms	**Response of course team**
1. Problems with the teaching assistant in exercises	New teacher assistant will be engaged the next academic year.
2. A proposal to extend the subject and lecture it in two successive semesters	The actual content and number of lecturing hours are convenient now, considering the re-determined graduate profile

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

8- Course enhancement:

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

9- Action plan for academic year 2008 – 2009

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

Course coordinator: A.Prof. Dr. M. Khalifa
Signature:
Date: Aug. 2008

Annual Course Report
2007-2008

A- Basic Information

1- Title and code: *B122: Mechancis (II)*
2- Program(s) on which this course is given: General
3- Year/Level of program: First year / second term
4- Unit hours Lectures 2 hrs Tutorial 2hrs Practical 0hr Total 4 hrs
5- Names of lecturers contributing to the delivery of the course
: Prof. Dr. Hassan Awad
Prof. Dr. Mahmoud El-Maddah
Course coordinator: Prof. Dr. Mahmoud El-Maddah
External evaluator : Non

B- Statistical Information

No. of students attending the course: **No.** **1203** **% 100**
No. of students completing the course: **No.** **1203** **% 100**
Results:

	No.	**%**
Passed	930	77.31
Failed	273	22.69

Grading of successful students:

	No.	**%**
Excellent	130	10.81
Very Good	161	13.38
Good	180	14.96
Pass	459	38.15

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: Non
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	70 %
Oral examination	**----**
Practical/laboratory work	
Other assignments/class work	15 %
Mid-Term Exam	15 %
Total	**100 %**
Members of examination committee	Prof. Dr. Hassan Awad Prof. Dr. Mahmoud El-Maddah
Role of external evaluator	Non

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	**100%**
Inadequate	**……**
List any inadequacies	Non

5- Administrative constraints

List any difficulties encountered

- New assistants needs more preparation

6- Student evaluation of the course:

List any criticisms	**Response of course team**
➢ New assistants make some mistakes in solution of problems	New assistants attend lectures and all exercises are Supervised by professors

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

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 2008 – 2009

Actions required	Completion date	Person responsible
Preparation of the course by new assistants	Nov.2008	Prof. Dr. Mahmoud El-Maddah

Course coordinator: **Prof. Dr. Mahmoud El- Maddah**
Signature:
Date: Nov.2008

Annual Course Report
2007-2008

A- Basic Information

1- Title and code: B132 Physics II (Electricity, Magnetisms, Optics)
2- Program(s) on which this course is given: General
3- Year/Level of program: 1st Year , 2nd term
4- Unit hours Lectures 4 hrs Tutorial 0 hrs Practical 2hr Total 6hrs
5- Names of lecturers contributing to the delivery of the course
Prof.. Dr. Mohamed El Twab Kamal
Prof. Dr. Abo El Yazeed B. Abo El Yazeed
Course coordinator Prof.. Dr. Mohamed El Twab Kamal
External evaluator : Non

B- Statistical Information

No. of students attending the course: **No.** **1199** **%** 100
No. of students completing the course: **No.** **1199** **%** 100

Results:

	No.	%
Passed	1013	84.49
Failed	186	15.51

Grading of successful students:

	No.	%
Excellent	83	6.92
Very Good	128	10.68
Good	203	16.93
Pass	599	49.96

C- Professional Information

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: Non
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:
Non

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 **Permanent staff of Physic and Assistants**

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate	**.Yes.**
Adequate to some extent	**100%**
Inadequate	**……**
List any inadequacies	Non

5- Administrative constraints

List any difficulties encountered

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

6- Student evaluation of the course:

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

Non Non

8- Course enhancement:

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

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

9- Action plan for academic year 2009– 2010

Actions required	Completion date	Person responsible
1. Provide more data show apparatuses	Nov.2008	Prof. Dr M. El Tawab Kamal
2. Put more experiments in function in the lab.		

Course coordinator: Prof. Dr M. El Tawab Kamal
Signature:
Date: Nov.2008

Annual Course Report
2007-2008

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 , 2 nd semester .
4- Unit hours Lectures 2 hrs Tutorial 0 hrs Practical 2 hr Total 4 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Said A. Gawish
Course coordinator Prof. Dr. Said A. Gawish
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 1130 **%** 100
No. of students completing the course: **No.** 1080 **%** 95.5

Results:

	No.	%
Passed	981	90.8
Failed	102	9.4

Grading of successful students:

	No.	%
Excellent	273	25.2
Very Good	167	15.4
Good	200	18.5
Pass	383	35.4

C- Professional Information

1 – Course teaching

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

Topics taught as a percentage of the content specified:
>90 % √ **70-90 %** ☐ **<70%** …
Reasons in detail 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	None

5- Administrative constraints

List any difficulties encountered

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

10- Student evaluation of the course:

List any criticisms	**Response of course team**
1. The theoretical part is too much. This is an introductory course.	
2. Some computer language must be tought. This is done in second year.	

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

8- Course enhancement:

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

9- Action plan for academic year 2008 – 2009

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

Course coordinator: Prof. Dr Said A. Gawish
Signature:
Date: 9/2008

Annual Course Report
2007-2008

A- Basic Information

1- Title and code :(M 151) Engineering Graphics
2- Program(s) on which this course is given: 1st year General
3- Year/Level of program: 1st year-2nd semester
4- Unit hours Lectures 1 hrs Tutorial 4 hrs Practical - Total 5 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Mamdouh Saber ELsayed
Course coordinator Prof. Dr. Mamdouh Saber ELsayed
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 1130 **%** 100
No. of students completing the course: **No.** 1067 **%** 94.4.

Results:

	No.	%
Passed	843	79
Failed	224	20.9

Grading of successful students:

	No.	%
Excellent	57	5.3
Very Good	90	8.4
Good	148	13.8
Pass	548	51.3

C- Professional Information

1 – Course teaching

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

taught as a percentage of the content specified:

>90 % √ **70-90 %** ☐ **<70%** ….

Reasons in detail for not teaching any topic Actual no. of teaching weeks for 2nd term was 12 weeks in addition to a midterm exam week
If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

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

Class activity: Drawing of several problem weekly using traditional methods and free hand sketch
Case Study: selected cases
Other assignments/homework: weekly

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

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	60 %
Oral examination	None
Practical/laboratory work	None
Other assignments/class work	20 %
Mid-Term Exam	20 %
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

- **Drawing haul aren't equipped with loudspeaker**

6- Student evaluation of the course:

List any criticisms	**Response of course team**

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

None	**-**

8- Course enhancement:

Progress on actions identified in the previous year's action plan: NO comment
Action State whether or not completed and give reasons for any none-completion None

9- Action plan for academic year 2008-2009

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

Course coordinator: Prof. Dr. Mamdouh Saber
Signature:
Date: 9 / 2008

Annual Course Report
2007- 2008

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

	No.	%
Passed	1024	84.40
Failed	189	15.60

Grading of successful students:

	No.	%
Excellent	59	4.90
Very Good	118	9.70
Good	202	16.70
Pass	645	53.20

C- Professional Information

1 – Course teaching

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

Drilling and shaping shop			4
Milling shop			4
Grinding shop			4
Wood working shop			4
Sheet metal shop			4
Forging shop			4
Break-Even analysis and calculation of machining time		4	
Practical Exams		8	
Total	**14**	**16**	**40**

- **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 non-completion** None

9- Action plan for academic year 2008 – 2009

Actions required	Completion date	Person responsible
Preparation of new materials and cutting tools required for carrying out the practical work in each shop	Oct. 2008	Prof. Dr. B. Sarangawy

Course coordinator: Prof. Dr. M. Merdan
Signature:
Date: 23/9 /2008

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 2008-2009)

A- Basic Information

1- Title and code: A060: Civil Engoneering 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.** 117 100%
No. of students completing the course: **No.** 110 94.0%

Results:

	No.	%
Passed	99	90
Failed	11	10

Grading of successful students:

	No.	%
Excellent	5	4.6
Very Good	13	11.8
Good	14	12.7
Pass	67	60.9

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:
None

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
None

6- Student evaluation of the course:

List any criticisms	**Response of course team**
1. This course is not a Mechanical eng. Course why are we studying it.	Civil eng is interrelated to our ordinary & daily activities, rather than its deeply interrelation to Mechanical eng.

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 2009 – 2010

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

Course coordinator: Prof. Dr. Adham ELAlfy
Signature:
Date: 25/8/2009

Annual Course Report

(Academic Year 2008-2009)

A- Basic Information

1- Title and code: B200: English Language (3)
2- Program(s) on which this course is given: Information systems & Production Engineering
3- Year/Level of program: 2nd year / 1st Semester
4- Unit hours 2
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. 750 **%** 100
No. of students completing the course: No. 722 **%** 96.27
Results:

	No.	%
Passed	651	90.16
Failed	258	35.73

Grading of successful students:

	No.	%
Excellent	90	12.47
Very Good	104	14.40
Good	162	22.4
Pass	295	40.85

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: 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
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:

List any criticisms	**Response of course team**
Non	Non

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

Non	**Non**

8- Course enhancement:

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

9- Action plan for academic year 2009 – 2010

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

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

Annual Course Report
(Academic Year 2008-2009)

A- Basic Information

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

B- Statistical Information

No. of students attending the course: No. 750 % 100
No. of students completing the course: No. 705 % 94
Results: Electr.

	No.	%
Passed	467	66.2
Failed	238	33.8

Grading of successful students:

	No.	%
Excellent	38	5.4
Very Good	38	5.4
Good	55	7.8
Pass	336	47.6

C- Professional Information

1 – Course teaching

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:

List any criticisms	**Response of course team**
2. 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: None
Action State whether or not completed and give reasons for any None-completion None

9- Action plan for academic year 2008 – 2009

Actions required	Completion date	Person responsible
None	Aug.2009	Prof. Dr. Osama El Gyar

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

Signature:

Date:

Annual Course Report
(Academic Year 2008-2009)

A- Basic Information

1- Title and code: E 210 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

ii. Statistical Information

No. of students attending the course: **No.** 117 **%** …100.
No. of students completing the course: **No.** 107 **%** 91.5
Results:

	No.	%
Passed	91	85
Failed	16	15

Grading of successful students:

	No.	%
Excellent	8	7.5
Very Good	6	5.6
Good	15	14
Pass	62	75.9

iii. 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 2008 – 2009

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

Course coordinator: Prof. Dr. Adel Kheder
Signature: Prof. Dr Said A.Gawish
Date:

Annual Course Report
2008-2009

A- Basic Information

1- Title and code: (M201) Fluid Mechanics
2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
3- Year/Level of program: Second Year Man. Eng. & Prod. Tech.
4- Unit hours Lectures 4 hrs Tutorial 1 hr Practical 1 hr Total 6 hrs
5- Names of lecturers contributing to the delivery of the course
Dr. Abdelmagid A. Abdalla
Course coordinator Dr. Abdelmagid A. Abdalla
External evaluator: None

B- Statistical Information

No. of students attending the course: No. 109 **%** 100
No. of students completing the course: No. 109 **%** 100

Results:

	No.	%
Passed	83	76
Failed	26	23.5

Grading of successful students:

	No.	%
Excellent	10	9.2
Very Good	8	7.3
Good	13	12
Pass	52	48

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 fluid lab
Seminar/Workshop: None
Class activity: Numerical exercises
Case Study: None
Other assignments/homework: Bi-weekly assignments

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

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	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 2009 – 2010

	Actions required	Completion date	Person responsible
1.	Increase the number of solved examples during the lecture	Sept 2009	Dr. Abdelmagid A. Abdalla
2.	An experiment will be added to the lab.	Sept 2009	

Course coordinator: Dr. Abdelmagid A. Abdalla
Signature:
Date: 7/11/2009

Annual Course Report
2008-2009

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. 109 **%** 100
No. of students completing the course: No. 96 **%** 88

Results:

	No.	**%**
Passed	15	15.6
Failed	10	10.4

Grading of successful students:

	No.	**%**
Excellent	3	3.1
Very Good	6	6.3
Good	4	4.2
Pass	58	60.4

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; Quizes Quizes*

Case Study: *Selected case studies*

Other assignments/homework: weekly assignments

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

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	70 %
Oral examination	**----**
Practical/laboratory work	…..
Other assignments/class work & activities	20 %
Mid-Term Exam	10 %
Total	**100 %**

Members of examination committee *Prof . Dr. Mamdouh Saber*

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate	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:

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

9- Action plan for academic year 2009– 2010

Actions required	Completion date	Person responsible
New solving problems		
More teaching aids		

Course coordinator: *Prof . Dr. Mamdouh Saber*
Signature:
Date: 9/2009

Annual Course Report
2008-2009

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 / First term
4- Unit hours Lectures 2 hrs Tutorial Practical 2hrs Total 4 hhrs
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.** 117 **%** 100
No. of students completing the course: **No.** 109 **%** .93
Results:

	No.	%
Passed	89	81.6
Failed	20	18.3

Grading of successful students:

	No.	%
Excellent	23	21
Very Good	6	5.5
Good	12	11
Pass	48	44

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• **Moment of inertia**	**4**	**1**
• **System of particles**	**12**	**3**
• **Kinematics of rigid bodies**	**8**	**2**
• **Plane motion of rigid bodies: force & acceleration**	**12**	**3**
• **Plane motion of rigid bodies: Energy & momentum**	**12**	**3**
• **Cams**	**8**	**2**
Total hours	**56**	**14**

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

- no

6- Student evaluation of the course:

List any criticisms	Response of course team
1. More time is requested	More problems will be given

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

8- Course enhancement:

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

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

Actions required	Completion date	Person responsible

Course coordinator: Prof. Dr Ahmed Sarhan
Signature:
Date: 15/2/2009

Annual Course Report
2008-2009

A- Basic Information

1- Title and code: M 261:Strength Of Materials
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.** 110 **%** 100
No. of students completing the course: **No.** 110 **%** 100
Results:

	No.	%
Passed	80	72.73
Failed	30	27.27

Grading of successful students:

	No.	%
Excellent	5	4.5
Very Good	9	8.2
Good	24	21.8
Pass	42	44

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:

List any criticisms	Response of course team
(a) Non	

7- Comments from external evaluator(s): Non
Response of course team 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 2009 – 2010

Actions required	Completion date	Person responsible
Non	Non	Non

Course coordinator: Prof. Dr Ahmed El-Sanabary
Signature:
Date: 1/08/2009

Annual Course Report
(Academic Year 2008-2009)

A- Basic Information

1- Title and code: History of Science & Technology,B202

2- Program(s) on which this course is given: Com. Eng. & Inf. Tech. Dept.
Electronic Eng & Comm. Tech. Dept.
Man. Eng. & Prod. Tech. Dept

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

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

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

Prof. Dr.: Shaban Ragab Gouda
Course coordinator Prof. Dr.: Shaban Ragab Gouda
External evaluator Non

B- Statistical Information

No. of students attending the course: No. 750 % 100%
No. of students completing the course: No. 703 % 93.7%

Results:

	No.	%
Passed	699	99.43
Failed	4	0.57

Grading of successful students:

	No.	%
Excellent	202	28.7
Very Good	186	26.4
Good	160	22.7
Pass	151	21.5

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	
* نقابه المهندسين المصريه – جمعيه المهندسين المصريه •	4	
* تطور اوجه النشاط الهندسى والتكنولوجى •	4	
* 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:

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 2009 – 2010

Actions required	Completion date	Person responsible
Non	None	Non

Course coordinator: Prof. Dr. S. R. Gouda
Signature:
Date: Nov.2009

Annual Course Report
(Academic Year 2008-2009)

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. 750 % 100
No. of students completing the course: No. 679 % 90.5

Results: Electr.

	No.	%
Passed	382	56.3
Failed	297	43.7

Grading of successful students:

	No.	%
Excellent	35	5.2
Very Good	33	4.9
Good	44	6.5
Pass	270	39.7

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:

List any criticisms	**Response of course team**
1- Problems with the teaching assistant in exercises	New teacher assistant will be engaged the next academic year.
2- A proposal to extend the subject and lecture it in two successive semesters	The actual content and number of lecturing hours are convenient now, considering the re-determined graduate profile

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

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

9- Action plan for academic year 2008 – 2009

Actions required	Completion date	Person responsible
None	Aug.2009	Prof. Dr. Osama El Gyar

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

Signature:

Date:

Annual Course Report
2008-2009

A- Basic Information

1- Title and code: E 213 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
Prof. Dr. Adel El-Sherif
Course coordinator Prof. Dr. Adel El-Sherif
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 117 **%** 100.
No. of students completing the course: **No.** 106 **%** 90.6

Results:

	No.	%
Passed	93	78.8
Failed	13	12.3

Grading of successful students:

	No.	%
Excellent	8	7.5
Very Good	5	4.7
Good	11	10.4
Pass	69	65.1

C- Professional Information

1 – Course teaching

Topics Actually Taught	Lecture hours	Practical hours	Lecturer
• Concepts of structured programming	2		Prof. Dr. Said Gawish
• 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 too 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 2009 – 2010

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

Course coordinator: Prof. Dr. Adel El-Sherif
Signature:
Date:

Annual Course Report
2008- 2009

A- Basic Information

1- Title and code: (M222) Thermodynamics
2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
3- Year/Level of program: Second Year Man. Eng. & Prod. Tech..
4- Unit hours Lectures 4 hrs Tutorial 1 hrs Practical 1 hrs Total 6 hrs
5- Names of lecturers contributing to the delivery of the course
Dr. Abdelmagid A. Abdalla,
Course coordinator Dr. Abdelmagid A. Abdalla
External evaluator: None

B- Statistical Information

No. of students attending the course: No. 106 **%** 100

No. of students completing the course: No. 106 **%** 100

Results:

	No.	%
Passed	88	83
Failed	18	17

Grading of successful students:

	No.	%
Excellent	8	7.5
Very Good	5	4.7
Good	12	11.3
Pass	63	59.4

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	Dr. Abdelmagid A. Abdalla,
• 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.

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.

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

9- Action plan for academic year 2009– 2010

Actions required	**Completion date**	**Person responsible**
1- Substitute of the male-functioned experiment by supplying two heaters	Feb 2009	Eng./Sabry

Course coordinator: Dr. Abdelmagid A. Abdalla
Signature:
Date: 7/11/2009

Annual Course Report
2008 - 2009

A- Basic Information

1- **Title and code:** (M252) Mechanics of Machines II
2- **Program(s) on which this course is given:** Production Eng. and Manufacturing Technology
3- **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. Dr. Gaafar A. Hussein
Course coordinator Prof. Dr. Gaafar A. Hussein
External evaluator: None

B- Statistical Information

No. of students attending the course: No. 117 **%** 100
No. of students completing the course: No. 105 **%** 0.897
Results:

	No.	%
Passed	100	95.2
Failed	5	4.8

Grading of successful students:

	No.	%
Excellent	15	14.3
Very Good	18	17.1
Good	20	19.0
Pass	47	44.8

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, 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 Dr. Gaafar A. Hussein
Dr. Abdelmegeed abdella

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
A proposal to extend the subject in two successive semesters	The actual content and number of lecturing hours are convenient now, considering the pre-determined graduate profile

7- Comments from external evaluator(s):

	Response of course team
None	**None**

8- Course enhancement:

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

9- Action plan for academic year 2009 – 2010

Actions required	Completion date	Person responsible
None	None	None

Course coordinator: Prof. Dr Gaafar A. Hussein
Signature:
Date: 25/3/2010

Annual Course Report
2008 - 2009

A- Basic Information

1- Title and code: (M253) Engineering Skills II
2- Program(s) on which this course is given: *Manufacturing Engineering & Production Tech.*
3- Year/Level of program: *2nd Year Mechanicall* second term
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.** 133 **%** 100
No. of students completing the course: **No.** 123 **%** 92.48

Results:

	No.	%
Passed	108	87.8
Failed	15	12.20

Grading of successful students:

	No.	%
Excellent	32	25.40
Very Good	20	15.87
Good	29	23.02
Pass	42	33.3

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	None

5- Administrative constraints

List any difficulties encountered
2- 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 2009 – 2010

Actions required	Completion date	Person responsible
New solving problems		
More teaching aids		

Course coordinator: *Prof . Dr. Mamdouh Saber*
Signature:
Date: 9/2009

Annual Course Report
2008 - 2009

A- Basic Information

1- Title and code: (M262) Material Technology I
2- Program(s) on which this course is given: Manufacturing Engineering and Production Technology
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.**	**117**	**100**	**%**
2- No. of students completing the course:	**No.**	**108**	**92.31**	**%**

3- Results:

	No.	%
Passed	102	94.4
Failed	6	5.6

Grading of successful students:		
Grade	No.	%
Excellent	23	21.3
Very Good	20	18.5
Good	25	23.1
Pass	34	31.5

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

Achieved program intended learning outcomes, ILO's:

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 reaso for any non-completion:

Actions required	Planned Completion date	Accomplishment
(a) Non		

9- Action plan for academic year 2009 – 2010

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

Course coordinator: Prof. Dr Bakkar Elsarngawy
Signature:
Date: November, 2009

Annual Course Report
2008 - 2009

A- Basic Information

1- Title and code: ***M271: Principles of Manufacturing***
2- Program(s) on which this course is given:
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: 117
No. of students completing the course: 106
Results:

	No.	%
Passed	85	90.46
Failed	21	9.44

Grading of successful students:

	No.	%
Excellent	3	2.8
Very Good	10	9.4
Good	10	9.4
Pass	32	38.5

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
Introduction; Definition of technology, production system, manufacturing processes and elements of machining system	2	2	
Machining Deviations; reasons, types, dimensional deviation and ISO system of tolerances, definitions and denotations of geometric deviations, standardization and measurement of surface roughness.	4	6	
Linear measurement, dimensional analysis and solution of dimensions chains, and gauges design	4	4	
Chip formation and accompanied phenomena: Workhardening, Built-up edge, residual stresses, and surface roughness	2	2	
Forces when metal cutting, in oblique and orthogonal modes. Calculation and measurement of cutting forces.	2	4	
Heat generated when cutting and analysis of effects on cutting temperature.	2	2	
Tool failures, tool wear types and measurement, and T-v relationship	2	2	
Machining costs and optimum cutting conditions	10	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.			
Total	28	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**

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	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**
- **Adequate to some extent** Yes
- **Inadequate**
- **List any inadequacies**

Dimensions chain analysis and gages design, theories of metal cutting, machining costs, optimum cutting conditions, and the sophisticated issues of the measurement content, are inadequate topics at this early year (2nd). Therefore, I recommend that the course should focus on the introductory part beside the different metal cutting operations such as; turning, drilling and boring, shaping, planning and slotting, milling, broaching, and surface and cylindrical grinding. The course should be ended with the elaboration of technological procedure for relatively simple products.

5- Administrative constraints

List any difficulties encountered	Some issues of the course are inadequate at this early phase, see above.

6- Student evaluation of the course:

List any criticisms	**Response of course team**
None	Shift the issues at the above list of this paper, to **manufacturing technology (2)** at the 3rd year

7- Comments from external evaluator(s):

None None

8- Course enhancement:

- **Progress on actions identified in the previous year's action plan:** the course is modified as stated, and the above mentioned inadequate topics are shifted to the manufacturing technology (2) of the 3rd year.
- **Action State whether or not completed and give reasons for any non-completion**
  None

9- Action plan for academic year 2008 – 2009

Actions required	Completion date	Person responsible
None		

Course coordinator: Prof. Dr. M. Merdan
Signature:
Date: 25/3/2009

3rd year Manufacturing Eng. & Production Tech.

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

Annual Course Report
(Academic Year 2009-2010)

A- Basic Information

1- Title and code: B300: English Language (4)
2- Program(s) on which this course is given: Information systems & Production Engineering
3- Year/Level of program: 3rd year / 1st Semester
4- Unit hours 2
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. 615 **%** 100
No. of students completing the course: No. 573 % 93

Results:

	No.	%
Passed	491	85.69
Failed	82	14.31

Grading of successful students:

	No.	%
Excellent	52	9.08
Very Good	78	13.61
Good	111	19.37
Pass	250	43.63

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:
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 **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 2009– 2010

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

Course coordinator: Abdel-Hamid Mohammed El-Khoreby
Signature:
Date: Nov.2010

Annual Course Report
2009-2010

A- Basic Information

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

B- Statistical Information

No. of students attending the course: No. 103 % 100
No. of students completing the course: No. 98
Results: Mech.

	No.	%
Passed	90	91.8
Failed	8	8.2

Grading of successful students:

	No.	%
Excellent	3	3.1
Very Good	8	8.2
Good	12	12.2
Pass	67	68.4

C- Professional Information

1 – Course teaching

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

Topics taught as a percentage of the 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. Laboratory exercises are insufficient	
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): **Response of course team**

8- Course enhancement:

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

9- Action plan for academic year 2009 – 2010

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

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

Signature:

Date: Nov. 2010

Annual Course Report
2009-2010

A- Basic Information

1- Title and code: Electrical & Electronic Circuits, E030
2- Program(s) on which this course is given: Manufacturing Engineering and Production Technology
3- Year/Level of program: Third Year
4- Unit hours Lectures 3 hrs Tutorial 2 hrs Practical 1 hr Total 6 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Ir. Mostafa Sayed AFIFI
Course coordinator Prof. Dr. Ir. Mostafa Sayed AFIFI
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 103 **%** 100
No. of students completing the course: **No.** 81 **%** 78.6
Results:

	No.	**%**
Passed	78	96.3
Failed	3	3.7

Grading of successful students:

	No.	**%**
Excellent	4	5
Very Good	9	11.1
Good	18	22.2
Pass	47	58

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.	6	
• 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	**82**	

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,

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	50.0 %
Attendance	5.0 %
Quizzes	5.0 %
Practical/laboratory work	10 %
Home Work Assignments	10.0 %
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:	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, 1 Hour LAB.

6- Student evaluation of the course:

List any criticisms	**Response of course team**
1. Lab exercises are insufficient, 1 Hr Lab	This insufficiency is also due to occasional defect in some experiments. More experiments will be added next 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:

Actions required	Planned Completion date	Accomplishment
Put more experiments in function in the lab.	Sep 2010	Department Decision

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

The first term actions might be corrected in the credit hour system and the second term extension needs a department decision

9- Action plan for academic year 2009 – 2010

Actions required	Completion date	Person responsible
1. Provide more data shows	Sept 2010	Department actions
2. More experiment time in Labs	Jan 2011	Department actions

Course coordinator: Prof. Dr Ir Mostafa Afifi
Signature:
Date: 5/11/2010

Annual Course Report

Academic year 2009-2010

i. Basic Information

1- Title and code: (M310a) Computer Applications I
2- Program(s) on which this course is given: Production Eng. and manufacturing Technology
3- Year/Level of program: Third Year
4- Unit hours Lectures Tutorial Practical 2 hr Total 2 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. 103 % 100
No. of students completing the course: No. 97 % 94.2

Results:

	No.	%		Grading of successful students:		
Passed	89	91.8			No.	%
Failed	8	8.2		Excellent	11	11.3
				Very Good	8	8.2
				Good	13	13.4
				Pass	57	58.8
				Failed	8	8.2

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Introduction to computer applications:	2	Prof. Dr. Nabil Gadallah
• Computer graphics (Pro/Engineer)		
• Engineering analysis (Matlab)		
• Solid modelling techniques in art design		
• Extrusion & Revolve	2	
• Applications	6	
• Sweep and blend	2	
• Assemblies	4	
• Detail Drawing (drafting)	4	
Introduction to MATLAB		
• Introduction & basic vector and matrix operations.	2	
• Polynomials and solution of linear equations	2	
• Programming and applications	2	
• Solid modeling techniques in art design	2	
Total	**28**	

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: 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

6- Student evaluation of the course:

Student Criticism	Response of course team
There is no lectures	A modification is required for Adding a lectures bi-weekly
Distribution of Marks	A modification is required for The Distribution of marks to be: Theoretical (60%) and Practical 40%

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

Non

8- Course enhancement:

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

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

9- Action plan for academic year 2009 – 2010

Actions required	Completion date	Person responsible
Adding a lectures bi-weekly	25/1/2009	Prof. Dr Nabil Gadallah

Course coordinator: Prof. Dr Nabil Gadallah
Signature: **( )**
Date: 1/8/2010

Annual Course Report

Academic year 2009-2010

A- Basic Information

1- Title and code: (M331) Thermo- Fluid Machinery
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.** 103 **%** 100
No. of students completing the course: **No.** 100 **%** 97.09%

Results:

	No.	%
Passed	64	64
Failed	36	36

Grading of successful students:

	No.	%
Excellent	3	2.91
Very Good	8	7.77
Good	10	9.71
Pass	43	41.75

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. Abd El-Magid A. Abd Allah

Role of external evaluator None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered

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

6- Student evaluation of the course:

List any criticisms **Response of course team**

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

8- Course enhancement:

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

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

9- Action plan for academic year 2010 – 2011

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

Course coordinator: Prof. Dr Metwally H. Metwally
Signature:
Date: 2/20

Annual Course Report
2009-2010

A- Basic Information

1- Title and code: (M351) Mechanics of Machines
2- Program(s) on which this course is given: Manufacturing Eng. And Prod. Technology
3- Year/Level of program: Third Year, 1st 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. Dr. Gaafar A. Hussein
Course coordinator Prof. Dr. Gaafar A. Hussein
External evaluator: None

B- Statistical Information

No. of students attending the course: No. 103 **%** 100
No. of students completing the course: No. 99 **%** 97
Results:

	No.	%
Passed	99	100
Failed	0	0

Grading of successful students:

	No.	%
Excellent	11	11.1
Very Good	16	16.2
Good	22	22.2
Pass	50	50.5

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Speed governors	16	Prof. Dr. Gaafar A. Hussein
• Balancing of rotating masses	8	
• Balancing of reciprocating masses	8	
• Engine effort and torque diagrams	8	
• Single degree of freedom vibrations, critical speeds	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 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.
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 Dr. Gaafar A. Hussein
Dr. Abdelmegeed 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**
1. A proposal to extend the subject in two successive semesters	The actual content and number of lecturing hours are convenient now, considering the pre-determined graduate profile

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

8- Course enhancement:

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

9- Action plan for academic year 2010 – 2011

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

Course coordinator: Prof. Dr Gaafar A. Hussein
Signature:
Date: 1/8/2010

Annual Course Report
Academic year 2009-2010

A- Basic Information

1- Title **and code:** (M360) Industrial Psychology
2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
3- Year/Level of program: third Year/ first Semester
4- Unit hours

Lectures	2 hrs	Tutorial	- hrs	Practical	total	2 hrs

5- Names of lecturers contributing to the delivery of the course:
Prof. Dr.Mamdouh Saber El-sayed
Course coordinator. Prof. Dr.Mamdouh Saber El-sayed
External evaluator: Non

B- Statistical Information

4- No. of students attending the course:	**No.**	**103**	**100**	**%**
5- No. of students completing the course:	**No.**	**81**	**78.6**	**%**

6- Results:

	No.	%
Passed	61	75.3
Failed	20	24.7

Grading of successful students:		
Grade	No.	%
Excellent	8	9.87
Very Good	6	7.41
Good	9	11.1
Pass	38	46.9

C- Professional Information

1 – Course teaching

Topic	Total hours			lecturar
	L	T	P	
Industrial design- Design concepts	2	-	-	Prof. Dr. Mamdouh Saber Elsayed
Ergonomics	2			
Applied ergonomics –instrument-controls-workplace	2			
Aesthetic and ergonomic considerations	2			
Working conditions and environment	2			
Health and ventilation	2			
Industrial ventilation – local ventilation	2			
Air conditioning system	2			
CFC'S – Ozone depletion and Global worming	2			
Noise- Exposure to noise	2			
Noise control technique- vibration	2			
Lighting – level of illumination	2			
Factors affecting the quality of lighting	2			
Human effectiveness	2			
Total hours	28			

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: OHP and white board.
Practical training/ laboratory: Teaching aids and life components and assemply
Seminar/Workshop: Non
Class activity
Case Study: Selected case studies
Other assignments/homework: Two reports
If teaching and learning methods were used other than those specified, give reasons: Non

3- Student assessment:

Method of assessment		Percent 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 El-sayed
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
- Courses are shared between two buildings

6- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	it is recommended to have exercises	Limited by the supreme council of higher education hero

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	

8- Course enhancement:

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

9- Action plan for academic year 2010 – 2011

Actions required	Completion date	Person responsible
1. adding more exercises, assignments reports and quizzes for Chapter 10		

Course coordinator: Prof. Dr.Mamdouh Saber El-sayed
Signature:
Date: 2010

Annual Course Report
Academic year 2009-2010

A- Basic Information

1- Title and code: (M363) Manufacturing Technology I
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.** 103 **%** 100
No. of students completing the course: **No.** 98 **%** 97.09%
Results:

	No.	%
Passed	64	65.31
Failed	36	36.73

Grading of successful students:

	No.	%
Excellent	12	12.24
Very Good	23	23.47
Good	32	32.65
Pass	28	28.57

C- Professional Information

1 – Course teaching:

Topic Actually taught	Lecture hours	Tutorial hours	Practical hours
• Introduction; definition of machining system; manufacturing processes and elements of machining system.	4	2	
• Machining deviations; reasons types; dimensional deviations; ISO system of machines; standardization and measurement of surface roughness.	6	1	1
• Cutting tool: failure, material and geometry.	4	2	2
• Chip formation, and effect of cutting conditions on chip formation	4	1	2
• Integrity of machined surface, work hardening, residual stress and surface roughness.	3		2
• Cutting force calculation and the effect of cutting conditions on it	٤	٢	٢
• Heat generations during cutting, source and heat distribution, and effect on cutting	٢	١	
• Cutting tool wear; types of wear and its curves; the effect of cutting parameters	٤	٢	٢
• Determining of optimum cutting conditions	٤	٢	
• Productivity of fine and rough cutting operations	٢		٢

• Determination of production cost			
• Gears manufacturing	٢		٢
• Jig and fixture design	٤	٢	
Total	٤٥	١٥	١٥

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**

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 2010 – 2011

Actions required	Completion date	Person responsible

Course coordinator: Dr. M. Merdan
Signature:
Date: 2/2010

Annual Course Report
Academic year 2009-2010

A- Basic Information

1- **Title and code:** (E050) Electrical Power System
2- **Program(s) on which this course is given:** Manufacturing Eng. & Production Technology.
3- **Year/Level of program:** Third year / 2nd Semester
4- **Unit hours :** Lectures 2 hrs Tutorial 2 hrs Practical 1 hrs Total 5 hrs

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.=103 100%**
No. of students completing the course: **No. =97 96 %**
Results:

	No.	%
Passed	63	61.17
Failed	40	38.83

Grading of successful students:

	No.	%
Excellent	7	6.80
Very Good	8	7.77
Good	17	16.50
Pass	31	30.10

C- Professional Information

1 – Course teaching:

Topic	Lecture hours	Lecturer
• Circuit analysis of transformers	4	Prof. Dr. Said A. Gawish
• Transformer construction	2	
o 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):

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: Prof. Dr. Said A. Gawish
Signature:
Date: October, 2010

Annual Course Report

Academic year 2009-2010

A- Basic Information

1- Title and code: (M310 b) Computer Application II
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.** 103 **%** 100
No. of students completing the course: **No.** 98 **%** 95.15%
Results:

	No.	%
Passed	95	96.94
Failed	3	3.06

Grading of successful students:

	No.	%
Excellent	12	12.24
Very Good	8	23.47
Good	15	32.65
Pass	44	28.57

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	٦٠	

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

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

8- Course enhancement:

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

9- Action plan for academic year 2009 – 2010

Actions required	Completion date	Person responsible
None		

Course coordinator: Dr Atef Afifi
Signature:
Date: November 2010

Annual Course Report

2009 - 2010

A- Basic Information

1- Title and code: ***M 312:Industerial Management***

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 Non

B- Statistical Information

No. of students attending the course: No. 103 **%** 100

No. of students completing the course: No. 101 **%** .96.7

Results:

	No.	%
Passed	98	97
Failed	3	3

Grading of successful students:

	No.	%
Excellent	16	15.8
Very Good	17	16.8
Good	16	15.8
Pass	49	48.5

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Introduction	**6**	**Prof. Sarhan**
• Feasibility study	**12**	
• Project management	**12**	
• Linear Programming	**14**	
• Transportation Problems	**8**	
• Assignment Problems	**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: 4 hours for the project presentation

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
- **no**

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

9- Action plan for academic year 2009 – 2010

Actions required	Completion date	Person responsible

Course coordinator: Prof. Dr Ahmed Sarhan
Signature:
Date: 25/10/2010

Annual Course Report
2009 - 2010

A- Basic Information

1- **Title and code:** ***M 352:*** Measuring Methods & Instrumentation
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 Non

B- Statistical Information

No. of students attending the course: No. 103 **%** 100
No. of students completing the course: No. 100 **%** 97.3

Results:	**No.**	**%**
Passed	99	99
Failed	1	1

Grading of successful students:

	No.	**%**
Excellent	21	21
Very Good	16	16
Good	16	16
Pass	46	46

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Measuring system characteristics	8	Prof. Sarhan
• Traceability, uncertainty & calibration	4	
• Strain measurements: Wire strain gauges	4	
• Strain measurements: Extensometers	4	
• Stress measurements: Photo-elasticity	4	
• Time and speed (linear and angular) measurements	4	
• Acceleration and frequency measurements	4	
• Force and torque measurements	4	
• Power measurements	4	
• Pressure measurements	4	
• Temperature measurements	4	
• Solid and fluid level measurements	2	
• Viscosity measurements	2	
• Fluid flow measurements(velocity, rate of discharge, pressure and temperature)	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: 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

- none

6- Student evaluation of the course:

List any criticisms	Response of course team
1. More experiments are requested	More measuring instruments are locally produced as year projects

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

9- Action plan for academic year 2009 – 2010

Actions required	Completion date	Person responsible

Course coordinator: Prof. Dr Ahmed Sarhan
Signature:
Date: 25/10/2010

Annual Course Report
Academic year 2009-2010

A- Basic Information

1- **Title and code:** (M364) Manufacturing Technology II
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: 103 100 %
No. of students completing the course: 98 95.15%

Results:

	No.	%
Passed	79	76.70
Failed	19	18.45

Grading of successful students:

	No.	%
Excellent	4	3.88
Very Good	10	9.71
Good	9	8.74
Pass	56	54.37

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):
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: 2010 – 2011

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

Course coordinator: Prof. Dr. A.M.Kohail
Signature:
Date: 9/2010

Annual Course Report

(2009/2010)

A- Basic Information

1- Title and code: (M371) Machine Design (I)
2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology.
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. 103 **%** 100
No. of students completing the course: No. 95 **%** 96.7
Results:

	No.	%		Grading of successful students:		
Passed	85	89.5			**No.**	**%**
Failed	10	10.5		**Excellent**	5	5.3
				Very Good	6	6.3
				Good	9	9,5
				Pass	65	68.4

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours Lec	Tut	Lecturer
• 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.	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 2010 – 2011

Actions required	Completion date	Person responsible
None		

Course coordinator: Prof. Dr Serage Eldin Khalifa
Signature:
Date: **10/7/2010**

Annual Course Report
Academic year 2009-2010

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. [103] **%** [100]
No. of students completing the course: No. [103] **%** [100]
Results:

	No.	**%**
Passed	98	95.15
Failed	5	4.85

Grading of successful students:

	No.	**%**
Excellent	61	59.22
Very Good	25	24.27
Good	7	6.79
Pass	5	4.85

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 durng the break.	- Advisors should arrange the student's classes

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

None

8- Course enhancement:

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

9- Action plan for academic year 2010 – 2011

Actions required	Completion date	Person responsible
Students of each project should be in the same class	Sept. 2010	Chef of chair

Course coordinator: Dr. Bakkar Elsarnagawy
Signature:
Date: 1/11/2010

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 2010-2011)

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 Gyar
Prof Dr. Aly M. Essawi
External evaluator

B- Statistical Information

No. of students attending the course: No. 528 % 100
No. of students completing the course: No. 509
Results: Electr.

	No.	%
Passed	489	96.1
Failed	20	3.9

Grading of successful students:

	No.	%
Excellent	149	29.3
Very Good	95	18.7
Good	71	13.9
Pass	174	34.2

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: **Response of course team**

List any criticisms

1. Laboratory exercises are insufficient

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): **Response of course team**

8- Course enhancement:

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

9- Action plan for academic year 2010 – 2011

Actions required	Completion date	Person responsible
None	Aug. 2009	Prof. Dr. Osama El Gyar

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

Signature:
Date: Nov. 2011

Annual Course Report
2010/2011

A- Basic Information

1- Title and code: M454: Production Management
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.M. Kohail
Course coordinator: *Prof. Dr. A.M..Kohail*
External evaluator: *None*

B- Statistical Information

No. of students attending the course: 92
No. of students completing the course: 88
Results:

	No.	%
Passed	73	83.0
Failed	15	17

Grading of successful students:

	No.	%
Excellent	4	4.5
Very Good	8	9.1
Good	12	13.6
Pass	49	55.7

C- Professional Information

1- 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.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 2011 – 2012

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

Course coordinator: Prof. Dr. A.M.Kohail
Signature:
Date: **1/9/**2011

Annual Course Report
2010-2011

A- Basic Information

1- **Title and code:** (M461) System Dynamics and Vibrations
2- **Program(s) on which this course is given:** Manufacturing Eng. and Production Technology
3- **Year/Level of program:** Fourth Year, 1st Semester
4- **Unit hours** Lectures 3 hrs Tutorial 2 hrs Practical 1 hr Total 6 hrs
5- **Names of lecturers contributing to the delivery of the course**
Prof. Dr. Gaafar A. Hussein
Course coordinator Prof. Dr. Gaafar A. Hussein
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 108 **%** 100
No. of students completing the course: **No.** 107 **%** 99.1
Results:

	No.	%
Passed	105	98.13
Failed	2	1.96

Grading of successful students:

	No.	%
Excellent	25	23.4
Very Good	21	19.6
Good	17	15.9
Pass	42	39.3

C- Professional Information

1 – Course teaching

Topic Actually taught	Lecture hours	Tutorial hours	Practical hours	Lecturer
• Introduction to System dynamics System Classification System Models	3	3		Prof. Dr. Gaafar A. Hussein
• Multipart Systems, Bond Graph Source-Load Synthesis	3	3		
• Basic Component Models 1-Port, 2-Port, 3-Port Junction Elements	3	3		
• System Models, Construction Method for Various Domains (Electric, Mechanical, Hydraulic)	3	3		
• State Space Equations, Analysis of System Models (First and Second Order Systems)	6	3	4	
• Simulation with MATLAB (Vibration of Single DOF Systems)	6	3	4	
• Applications	6	6		
• Vibration Measurement	6		4	
• Vibration of Two and Multi-DOF Systems	6	6		
• MATLAB Simulation	3		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. Dr. Gaafar Ahmed Hussein
Prof. Dr. Abdelmegid 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
Laboratory experiments are insufficient	This insufficiency 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 2011 – 2012

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

Course coordinator: Prof. Dr Gaafar A. Hussein
Signature:
Date: 1/8/2011

Annual Course Report (2010/2011)

A- Basic Information

1- Title and code: (M471) Machine Design (II)
2- Program(s) on which this course is given: Production Eng. and manufacturing 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. 92 **%** 100
No. of students completing the course: No. 89 **%** 96.7
Results:

	No.	%		Grading of successful students:		
Passed	60	67.4			**No.**	**%**
Failed	29	32.6		**Excellent**	3	3.4
				Very Good	5	5.6
				Good	13	14.6
				Pass	39	43.8

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 2011 – 2012

Actions required	Completion date	Person responsible
None		

Course coordinator: Prof. Dr Serage Eldin Khalifa
Signature:
Date: 15/7/2011

Annual Course Report
2010 /2011

A- Basic Information

1- Title and code: M481: Manufacturing Technology (3)
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:
Prof. Dr. M. Merdan
Prof. Dr. A. Afifi
Course coordinator: Prof. Dr. M. Merdan
External evaluator: None

B- Statistical Information

No. of students attending the course: 92
No. of students completing the course: 88
Results:

	No.	%
Passed	101	94.40
Failed	12	13.7

Grading of successful students:

	No.	%
Excellent	4	4.5
Very Good	10	11.4
Good	9	10.2
Pass	53	60.2

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
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	Prof. Dr. A. Afifi.
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	**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. M. Merdan and Prof. 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 2011– 2012

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

Course coordinator: Prof. Dr. M. Merdan
Signature: M. Merdan
Date: 23/10/2011

Annual Course Report
(Academic Year 2010-2011)

A- Basic Information

1- Title and code: Digital Signal Processing, E051
2- Program(s) on which this course is given: Production Engineering and manufacturing Technology
3- Year/Level of program: Forth Year
4- Unit hours Lectures 3 hrs Tutorial 2 hrs Practical 1 hr Total 6 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Ir. Mostafa Sayed AFIFI
Course coordinator Prof. Dr. Ir. Mostafa Sayed AFIFI
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 92 **%** 100
No. of students completing the course: **No.** 88 **%** 96

Results:

	No.	%
Passed	85	96.6
Failed	3	3.4

Grading of successful students:

	No.	%
Excellent	5	5.7
Very Good	7	8
Good	17	19.3
Pass	56	63.6

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Introduction, signal processing requirements for mechanics	3	Prof. Dr. Ir. Mostafa Afifi
• Signal Processing, Analog and Digital Signal advantages	5	
• Amplifiers, Diodes, JBTs, FETs and Op Amps	8	
• Frequency Response and Feed Back in Amplifiers.	6	
• Fourier Series and Fourier Transforms	5	
• Low and High Pass Filters using RC and RL circuits	4	
* Band Pass and Band Stop Filters using RLC circuits	4	
* Signal Generators and Power Supplies	6	
• Wienbridge, RF Hartly Oscillators, Function Generators, Pulse Generators and Power Supplies	8	
• Logic Gates and Switching Circuits	4	
• Boolean Algebra	4	
• Switching Circuits and DeMorgans Theorems	4	
• Combinational Logic and Arithmetic Circuits	6	
• Flip Flops ant timing Circuits	5	
• Micro Computers and Micro-Controllers	4	
• Virtual Machines and LabVIEW Processing	4	
• Digital Filtering and Graphical Coding Analysis	6	
Total hours	**86**	

Topics taught as a percentage of the content specified:
>90 % X **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; LabVIEW and Graphical Coding.
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	10 %
Mid-Term Exam	5 %
Total	**100 %**

Members of examination committee Prof Dr Ir Mostafa Sayed Abd-El-Rahman 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
- Limitation of number of operating experiments in the laboratory (only one hour Lab)

6- Student evaluation of the course:

	List any criticisms	**Response of course team**
(a)	It is recommended to increase the teaching hours of this course	The teaching hours are determined by the curriculum approved by the supreme council of higher institutes
(b)	Students of Production Engineering need more contact with the material	The laboratory exercises need more than one engineer supervisor

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

8- Course enhancement:
Progress on actions identified in the previous year's action plan:

Actions required	**Planned Completion date**	**Accomplishment**
1. Provide more data show apparatuses	Sept. 2011	
2. Put more experiments in more lab. hours	January 2012	More experiments are planned

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

9- Action plan for academic year 2011 – 2012

Actions required	Completion date	Person responsible
1. None		

Course coordinator: Prof. Dr Ir Mostafa Sayed AFIFI
Signature:
Date: 10/4/2012

Annual Course Report
(Academic Year 2010-2011)

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. 92 **%** 100
No. of students completing the course: No. 92 **%** 100
Results:

	No.	%
Passed	92	100
Failed	0	0

Grading of successful students:

	No.	%
Excellent	41	44.6
Very Good	16	17.4
Good	5	5.4
Pass	30	32.6

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	
Attendance	
Practical training & delivering a report	100 %
Other assignments/class work	
Mid-Term Exam	
Total	**100 %**
Members of examination committee	All the 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): **Response of course team**

8- Course enhancement:

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

Actions required	**Planned Completion date**	**Accomplishment**

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

9- Action plan for academic year 2011– 2012

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

Course coordinator: Prof. Dr. Abdel Nasser Zayed
Signature:
Date: 1/10/2011

Annual Course Report
(Academic Year 2010-2011)

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: Prof. Dr. M. Bayoumi
External evaluator

B- Statistical Information

No. of students attending the course: No. 92 **%** 100
No. of students completing the course: No. 88 **%** 95.65

Results:

	No.	%
Passed	86	97.7
Failed	2	2.3

Grading of successful students:

	No.	%
Excellent	8	9.1
Very Good	10	11.4
Good	29	33
Pass	39	44.3

C- Professional Information

1 – COURSE TEACHING

Topic Actually Taught	Lecture hours	Lecturer
• Engineering materials (Types and applications)	7	Prof. Dr. M. Bayoumi
• 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 Prof. Dr. M. Bayoumi

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 2009 – 2010

Actions required	Completion date	Person responsible
Non		

Course coordinator: Prof. Dr. M. Bayoumi

Signature:

Date: 1/10/2011

Annual Course Report
(Academic Year 2010-2011)

A- Basic Information

1- Title and code: Computer Aided Design (CAD), M472
2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
3- Year/Level of program: 4th. Year
4- Unit hours Lectures 3hr Tutorial Practical 4 hr Total 7 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Abdel-Nasser Zayed
Course coordinator: Prof. Abdel-Nasser Zayed
External evaluator

B- Statistical Information

No. of students attending the course: No. 92 **%** 100
No. of students completing the course: No. 87 **%** 94.56
Results:

	No.	%
Passed	79	90.9
Failed	8	9.1

Grading of successful students:

	No.	%
Excellent	10	11.5
Very Good	11	12.6
Good	9	10.3
Pass	49	55.7

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 2011 – 2012

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

Course coordinator: Prof. Abdel-Nasser Zayed

Signature:

Date: 1/10/2011

Annual Course Report
Academic year 2010-2011

A- Basic Information

1- Title and code: (**M474**) **Machine Tool Design**
2- Program(s) on which this course is given: Manufacturing Engineering and Production 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.** 92 **%** 100
No. of students completing the course: **No.** 88 **%** 100
Results:

	No.	%
Passed	66	75
Failed	22	25

Grading of successful students:

	No.	%
Excellent	1	1.1
Very Good	4	4.5
Good	6	6.8
Pass	55	62.5

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	4	2	
Chapter 2: Regulation of Speed & Feed Rates	12	6	
Chapter 3: Design of Machine Tool Structures	12	6	
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	**56**	**28**	**84**

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:
Non

3- Student assessment:

Method of assessment	**In Points**
Written examination	100
Oral examination	**----**
Practical/laboratory work	
Other assignments/class work	30
Mid-Term Exam	20
Total	**150**

Members of examination committee Dr. Ahmed Elsanabary
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 **Non**

8- Course enhancement:

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

9- Action plan for academic year 2011 – 2012

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

Course coordinator: Prof. Dr. Ahmed El Sanabary
Signature:
Date: 1/10/2011

Annual Course Report
Academic year 2010-2011

A- Basic Information

1- Title and code: (M482) Automatic Control
2- Program(s) on which this course is given: Production Eng. and manufacturing 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.** 92 **100 %**
No. of students completing the course: **No.** 87 **94.6 %**

Results:

	No.	%
Passed	77	88.5
Failed	10	11.5

Grading of successful students:

	No.	%
Excellent	7	8.05
Very Good	12	13.8
Good	11	12.64
Pass	47	54

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	
o Level control	4	4	
o Flow control	4	4	
o Speed control	4	4	
o Temperature control	4	4	
o 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	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. 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): **Response of course team**

Non

The analysis of written exam results revealed the following weak points:

- Low success percentage in question 4 implies the need to revise the teaching and learning activity of the control system stability analysis and design of convenient controller, by adding more exercises, assignments reports and quizzes.
- The whole exam result shows considerable weakness in report writing and English language level.

8- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment
1. Non		

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

9- Action plan for academic year 2011 – 2012

Actions required	Completion date	Person responsible
1. adding more exercises, assignments reports and quizzes	End of summer term 2011-2012	Prof. M Galal Rabie

Course coordinator: Prof. Dr M. Galal RABIE
Signature:
Date: August 2, 2011

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

Annual Course Report
Academic year 2011-2012

A- Basic Information

1- Title and code: (M552) Operation Research
2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
3- Year/Level of program: 5th. Year
4- Unit hours Lectures: 2hr Tutorial: 2 Practical -- hr Total 4 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Abdel-Nasser Zayed
Course coordinator: Prof. Abdel-Nasser Zayed
External evaluator

B- Statistical Information

No. of students attending the course: **No. 95** **%** 100
No. of students completing the course: **No.** 91 **%96**
Results:

	No.	%
Passed	84	92
Failed	7	8

Grading of successful students:

	No.	%
Excellent	16	18
Very Good	12	13
Good	16	18
Pass	40	43
Failed	7	8

C- Professional Information

1 – Course Teaching

Topic Actually taught	No. of hours	Lecturer
• Linear Programming Review	2	Prof. Dr. Abdel-Nasser Zayed
• Integer Linear Programming Review	4	
• Nonlinear Programming	4	
• Goal & Dynamic Programming	4	
• Replacement Theory	4	
• Modeling & Simulation	4	
• Decision Theory Review	4	
• Queuing Theory	4	
Total	**30**	

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: none

Seminar/Workshop:
Two Seminars were arranged by the students:
(c) Linear Programming
(d) Transportation Problems

Class activity: none

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	00 %
Other assignments/class work	10%
Mid-Term Exam	20 %
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

List any criticisms	**Response of course team**

7- COMMENTS FROM EXTERNAL EVALUATOR(S)
Response of course team
Non

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

9- Action plan for academic year 2011 – 2012

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

Course coordinator: Prof. Abdel-Nasser Zayed
Signature:
Date: 1/10/2012

Annual Course Report
2011/2012

A- Basic Information

1- Title and code: (M561) Engineering Economics

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

- Manufacturing Engineering and Production Technology
- Communication Engineering Technology
- Computer Engineering Technology

3- Year/Level of program: Fifth Year **(Man.E, Comm., Comp.)**

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

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

Dr. Abdelmagid A. Abdalla, Dr. Metwally H. Metwally
Course coordinator Dr. Abdelmagid A. Abdalla
External evaluator: None

B- Statistical Information

No. of students attending the course: No. 80 **%** 100

No. of students completing the course: No. 80 **%** 100

Results:

	No.	**%**
Passed	76	95
Failed	4	5

Grading of successful students:

	No.	**%**
Excellent	13	16.25
Very Good	20	25
Good	14	17.5
Pass	29	36.25

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Cash Flow	4	Dr. Abdelmagid A. Abdalla, Dr. Metwally H. Metwally
• 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	4	
Total hours	**52**	

Topics taught as a percentage of the content specified:

>90 % --- **70-90 %** **86** **<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: **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:
Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2008 – 2009

Actions required	Completion date	Person responsible
None		

Course coordinator: Dr. Abdelmagid A. Abdalla
Signature:
Date: 25/7/2012

Annual Course Report
Academic year 2011-2012

A- Basic Information

1- Title and code: (M571) Computer Aided 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 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.** 82 **%** 100
No. of students completing the course: **No.** 80 **%** 100

Results:

	No.	%
Passed	68	85
Failed	12	15

Grading of successful students:

	No.	%
Excellent	7	8.75
Very Good	11	13.75
Good	12	15
Pass	38	47.5

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	

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
- 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.

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 2011 – 2012

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

Course coordinator: Prof. Dr. Atef Afifi
Signature:
Date: 25/4/2012

Annual Course Report
Academic year 2011-2012

A- Basic Information

1- Title and code: (M573) Automation
2- Program(s) on which this course is given: Manufacturing Eng. And production Technology
3- Year/Level of program: 5th year Manufacturing Technology / 1st term
4- Unit hours Lectures: 4 hrs Tutorial: 2hrs Practical: 1hrs Total: 7 hrs
5- Names of lecturers contributing to the delivery of the course:

Prof. Dr. A.M. Kohail
Course coordinator: Prof. Dr. A.M..Kohail
External evaluator: None

B- Statistical Information

No. of students attending the course: 82
No. of students completing the course: 80
Results:

	No.	%
Passed	69	86.25
Failed	11	13.75

Grading of successful students:

	No.	%
Excellent	4	5
Very Good	9	11.25
Good	8	10
Pass	48	60

C- Professional Information

2- 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 2011– 2012

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

Course coordinator: Prof. Dr. A.M.Kohail
Signature:
Date: 1/4/2012

Annual Course Report
Academic year 2011-2012

A- Basic Information

1- Title and code: (M578) Hydraulic Power System
2- Program(s) on which this course is given: Manufacturing Engineering and Production Technology
3- Year/Level of program: Fifth Year
4- Unit hours Lectures 4 hrs Tutorial 2 hrs Practical 1 hr Total 7 hrs
5- Names of lecturers contributing to the delivery of the course
Course coordinator Prof. Dr. M. Galal RABIE
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 82 **%** 100
No. of students completing the course: **No.** 80 **%** 97.5

Results:	**No.**	**%**
Passed	70	90
Failed	8	10

Grading of successful students:

	No.	**%**
Excellent	4	5
Very Good	6	7.5
Good	11	13.75
Pass	51	63.75

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Power systems, classification, operation, and comparison.	2	Prof. Dr. M Galal RABIE
• Introducing hydraulic power systems, standard symbols	6	
• Hydraulic fluids; properties and effect on system performance.	6	
• Hydraulic transmission lines and connectors	4	
• Hydraulic pumps:	4	
• Classification, basic mathematical relations, ideal and real pumps, displacement pump characteristics and specification, flow pulsation and cavitation.	4	
• Gear pumps, vane pumps and piston pumps	8	
• Fixed and variable displacement pumps and pump control	4	
• Control valves	6	
• Classification and basic design	2	
• Pressure control valves (direct/pilot operated); relief valves, pressure reducers, sequence and accumulator charging valves	8	
• Directional control valves	4	
• Flow control valves	2	
• Check valves	2	
• Hydraulic actuators; cylinders, motors and rotary actuators	6	
• Accessories; accumulators, filters, reservoirs, pressure switches,…etc	8	
• Case studies; design and analysis of function of hydraulic circuits of industrial and mobile systems.	11	
Introduction to electrohydraulic servo and proportional valves technology.	18	
Total	**105**	

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 and computer supported learning

Practical training/ laboratory: Practical training and experimental work in Lab

Seminar/Workshop:

Five seminars were arranged by the students:

(e) Hydraulic Actuators

(f) Hydraulic pumps

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
Written examination	66.7 %
Oral examination	Non
Practical/laboratory work	13.3 %
Other assignments/class work	10 %
Mid-Term Exam	10 %
Total	**100 %**

Members of examination committee Dr. M. Galal RABIE

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

8- Course enhancement:

Progress on actions identified in the previous year's action plan: No items recommended.

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

9- Action plan for academic year 2011 – 2012

Actions required	Completion date	Person responsible
Non		

Course coordinator: Prof. Dr M. Galal Rabie
Signature:
Date: 25/8/2012

Annual Course Report
Academic year 2011-2012

A- Basic Information

1- Title and code: (M580 c) Elective I (Production Planning & Control)
2- Program(s) on which this course is given: Manufacture Engineering & Production Technology
3- Year/Level of program: 5th year Manufacturing technology / 1st term
4- Unit hours Lectures 2 hrs **Tutorial** 2 hrs **Practical** **Total** 4 hrs
5- Names of lecturers contributing to the delivery of the course:
Prof. Dr. M. Merdan
Course coordinator: Prof. Dr. M. Merdan
External evaluator: None

B- Statistical Information

No. of students attending the course: 82
No. of students completing the course: 80
Results:

	No.	%
Passed	78	97.5
Failed	2	2.5

Grading of successful students:

	No.	%
Excellent	11	13.75
Very Good	15	18.75
Good	17	21.25
Pass	35	43.75

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 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
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.

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**
  Completed

9- Action plan for academic year 2011 – 2012

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

Course coordinator: Prof. Dr. M. Merdan
Signature: **M. Merdan**
Date: 6/3/2012

Annual Course Report
Academic year 2011-2012

A- Basic Information

1- Title and code: (M598) Technical Report Writing
2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
3- Year/Level of program: Fifth Year
4- Unit hours Lectures Tutorial 2 hrs Practical Total 2 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Abdel-Nasser Zayed
Course coordinator Prof. Abdel-Nasser Zayed
External evaluator

B- Statistical Information

No. of students attending the course: No. 82 **%** 100
No. of students completing the course: No. 80 **%** 97.6

Results:

	No.	%
Passed	75	93.8
Failed	5	6.2

Grading of successful students:

	No.	%
Excellent	15	18.8
Very Good	15	18.8
Good	19	23.7
Pass	26	32.5
Fail	5	6.2

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Introduction: Paper Presentation	2	Prof. Abdel-Nasser Zayed
• Steps to a Successful Writing Assignment	6	
• Steps to a Successful Writing Assignment	6	
• Mechanics	4	
• Research Papers and Reports	4	
• Technical Report Writing	4	
• Resumes and Cover Letters	8	
• Using Words Correctly	4	
• Report and Thesis Layout	6	
• Technical Writing Ethics	8	
• A Structured Approach to Presenting Postgraduate Research Theses	4	
• Publishing from the thesis	2	
• Writing a research paper	2	
Total	**38**	

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:
(g) Technical Report Writing
(b) Resumes and Cover Letters
Class activity: Preparation and presentation of the final project report for each group.
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	20 %
Mid-Term Exam	10 %
Total	**100 %**

Members of examination committee Dr. M. Galal RABIE
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 2011– 2012

Actions required	Completion date	Person responsible
Non		

Course coordinator: Prof. Abdel-Nasser Zayed
Signature:
Date: 1/10/2012

Annual Course Report
(Academic Year 2011-2012)

A- Basic Information

1- Title and code: Laws and Regulations For Engineers, B 512

2- Program(s) on which this course is given: Comp. Eng & Inf. Tech. Dept.
Electronic Eng & Com. Tech Dept.
Man. Eng. & Prod. Tech. Dept.

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 Prof. Dr. Shaban Ragab Gouda.
External evaluator:- Non

A- Statistical Information

No. of students attending the course: No. 501 % 100

No. of students completing the course: No. 487 % 97.20

Results:

	No.	%
Passed	485	99.59
Failed	2	0.41

Grading of successful students:

	No.	%
Excellent	146	29.97
Very Good	171	35.1
Good	113	23.2
Pass	55	11.3

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• مصطلحات ومفاهيم قانونيه	٥	Prof. Dr> S.R. Gouda
• 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 Prof. Dr. S. R. Gouda
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:
Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2011– 2012

Actions required	Completion date	Person responsible
Non	Non	Non

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

Annual Course Report
Academic year 2011-2012

A- Basic Information

1- Title and code: (B572) Pollution and Society
2- Program(s) on which this course is given: Man. Eng.& Prod. Tech. 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
Dr. A. M. Aboutaleb & Prof. Dr. S. Guoda
Course coordinator Dr. A. M. Aboutaleb
External evaluator Non

B- Statistical Information

No. of students attending the course: **No. 82**
No. of students completing the course: **No. 78**
Results:

Passed	**No. 76**	**% 97.44**
Failed	**No. 2**	**%2.56**

Grading of successful students:

	No	%
Excellent	**5**	**6.41**
Very Good	**9**	**11.54**
Good	**20**	**25.64**
Pass	**42**	**53.85**

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• The concept of the Ecosystem	4	Prof>Dr. A.M. Abu Taleb
• Population Growth and the Environment.	4	
• Air Pollution	5	
• Water pollution	3	
• Noise pollution	4	
• Solid wastes	4	
• Environmental Impact Assessment and the Egypt law No.4 of 1994 on the Environment	4	
• Final Revision	2	
Total hours	**30**	

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: 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: 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. A. M. Aboutaleb
Dr. S.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
- Non

6- Student evaluation of the course:

List any criticisms	Response of course team
Non	Non

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

Non Non

8- Course enhancement:

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

Course coordinator: Prof. Dr. Aboutaleb
Signature:
Date: Nov 2012

Annual Course Report
Academic year 2011-2012

A- Basic Information

1- Title and code: (M576) Computer Integrated Manufacturing (CIM)
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.** 82 **%** 100
No. of students completing the course: **No.** 78 **%** 100
Results:

	No.	%
Passed	74	94.8
Failed	4	5.12

Grading of successful students:

	No.	%
Excellent	12	15.38
Very Good	7	8.97
Good	14	17.95
Pass	40	51.28

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	Prof. Dr. Atef Afifi
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
- Limitation of number of operating experiments in the laboratory

6- Student evaluation of the course:

List any criticisms	**Response of course team**
2. 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: None
Action State whether or not completed and give reasons for any non-completion Non

9- Action plan for academic year 2011 – 2012

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

Course coordinator: Prof. Dr. Atef Afifi
Signature:
Date: 25/7/2012

Annual Course Report
Academic year 2011-2012

A- Basic Information

1- Title and code: (M574) Quality Control.
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:

Prof. Dr. A.M. Kohail
Course coordinator: Prof. Dr. A.M..Kohail
External evaluator: None

B- Statistical Information

No. of students attending the course: 82
No. of students completing the course: 78
Results:

	No.	%
Passed	71	91.025
Failed	7	8.97

Grading of successful students:

	No.	%
Excellent	6	7.69
Very Good	10	12.82
Good	16	20.51
Pass	29	50

C- Professional Information

1- Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer
• Introduction to quality	2			Prof. A.Kohail
• 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 % 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:** 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	40
Oral examination	
Practical/laboratory work	
Other assignments/class work	20
Mid-Term Exam	20
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	**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 2011 – 2012

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

Course coordinator: Prof. Dr. A.M.Kohail
Signature:
Date: **1/8/**2012

Annual Course Report
Academic year 2011-2012

A- Basic Information

1- Title and code: (M580 a) Elective Course II (Simulation & Modeling)
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: ----- Total: 4 hrs
5- Names of lecturers contributing to the delivery of the course:

Prof. Dr. Bakr M. Rabeeh
Course coordinator: Prof. Dr. Bakr M. Rabeeh
External evaluator: None

B- Statistical Information

No. of students attending the course: 82
No. of students completing the course: 78
Results:

	No.	%
Passed	76	97.4
Failed	2	2.56

Grading of successful students:

	No.	%
Excellent	21	26.92
Very Good	17	21.79
Good	18	23.08
Pass	20	25.64

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. Rabeeh
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	None

8- Course enhancement:

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

9- Action plan for academic year 2011 – 2012

Actions required	Completion date	Person responsible
None		None

Course coordinator: Prof. Dr. Bakr M. Rabeeh
Signature:
Date: **1/8/**2012

Annual Course Report
Academic year 2011-2012

A- Basic Information

1- Title and code: (M581Advanced 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: 82
No. of students completing the course: 78
Results:

	No.	%
Passed	70	89.74
Failed	8	10.25

Grading of successful students:

	No.	%
Excellent	7	8.97
Very Good	11	14.10
Good	12	15.38
Pass	40	51.28

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	**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):

	Response of course team
None	None

8- Course enhancement:

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

9- Action plan for academic year 2011 – 2012

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

Course coordinator: Prof. Dr. A.Kohail
Signature:
Date: 1/8/2012

Annual Course Report
Academic year 2011-2012

A- Basic Information

1- Title and code: (M599) Project 2
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
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.** [82] **%** [100]
No. of students completing the course: **No.** [82] **%** [100]
Results:

	No.	**%**
Passed	80	97.5
Failed	2	2.5

Grading of successful students:

	No.	**%**
Excellent	27	32.9
Very Good	32	39
Good	13	15.85
Pass	8	9.75

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
- Students in the project are distributed in different classes	- This will be considered in the following years.

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

Course coordinator: Dr. Abdel Nasser Zayed
Signature:
Date: 1/11/2013