Manufacturing Engineering and Production Technology B.Sc.

Program Report

2015-2016

CONTENTS

Manufacturing Engineering and Production Technology

PROGRAM REPORT

September 2016

1. General

1.1 Basic Information

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

1.2 External Evaluators:

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

Comments of external evaluator and other stakeholders

a) Comments of stakeholders:

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

b) Comments of external evaluator

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

1) First Evaluator

Refer to previous report (2010/2011)

2) Second Evaluator

Refer to previous report (2010/2011)

2. Professional Information

2.1 Statistics

1-No. of students starting the program at 2011 - 2012 were 60 (students accepted in the Academy the academic year 2010-2011 were 560 students with a ratio 10.7 %
2-Ratio of students` attending the program in 2014-2015 to those of accepted in the Academy the academic year 2010-2011: 51/560 = 9.1 %
3-No. and percentage of students passing in each year for the students graduated in 2015

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

Year		Number of students	No of passing Students	Percentage of passing students	No. of student / Student who start the Prog.
Second	2012-2013	156	122	78.2%	100%
Third	2013-2014	129	114	88.37%	82.7%
Fourth	2014-2015	122	110	91.1%	78.2%
Fifth	2015-2016	119	113	95%	76.3%

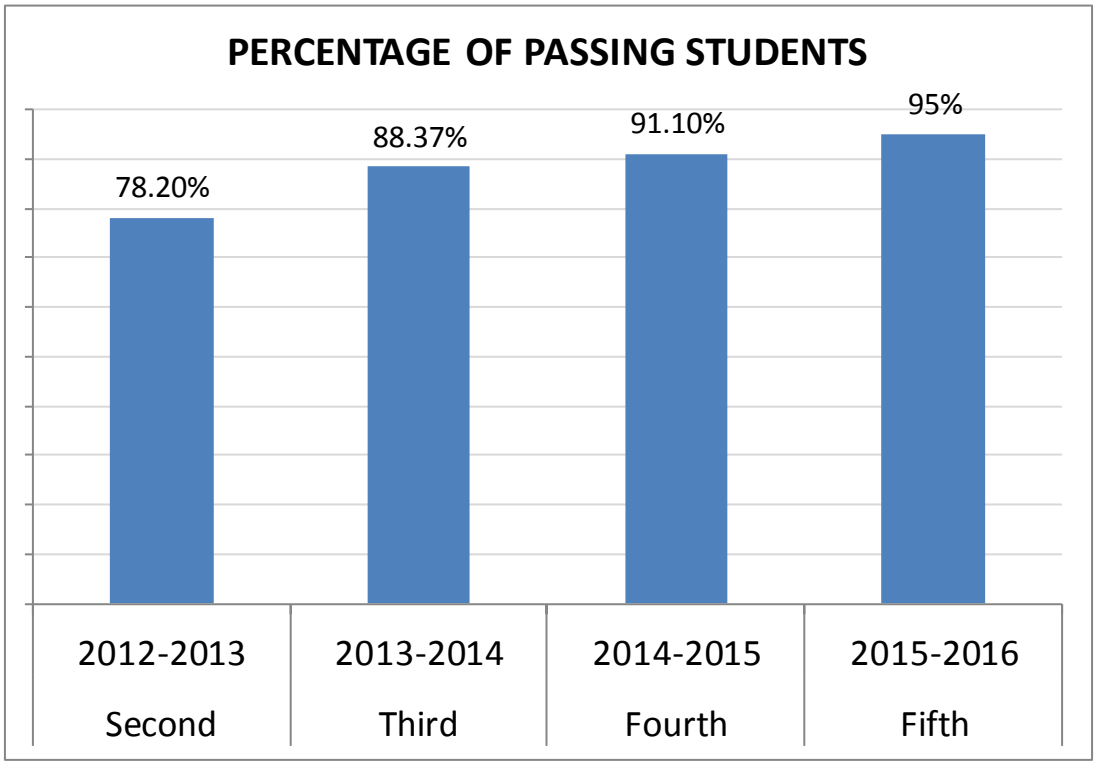

Figure (1): Ratio of students (graduated in 2016) passing in each year/level/semester

4-No. of students completing the program and as a percentage of those who started:
113 / 156 = 72.4%

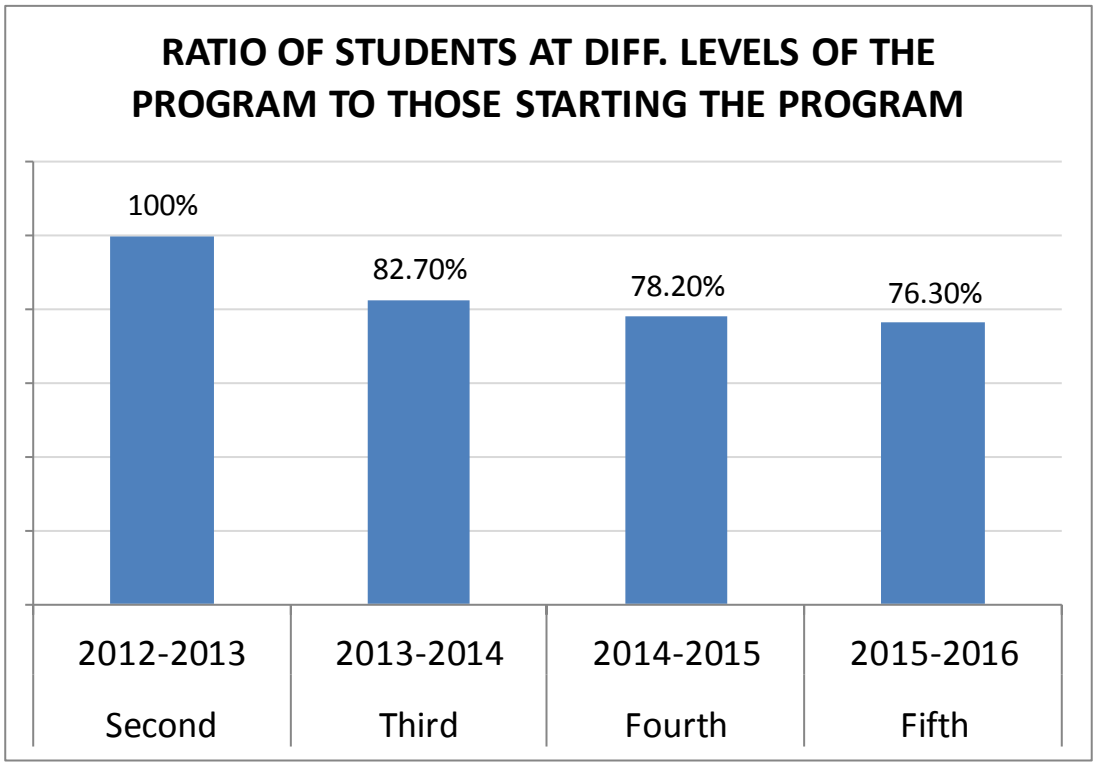

Figure (2): No. of students completing the program and as a percentage of those who started

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 2012-2013	156	14	23	36	49	34
%	100%	8.97 %	14.74 %	23.08 %	31.4 %	21.8%
3rd year 2013-2014	129	6	27	46	35	15
%	100%	4.65 %	20.93 %	35.66 %	27.13 %	11.63 %
4th year 2014-2015	122	8	29	33	39	13
%	100%	6.6 %	24 %	27.27 %	32.13 %	9.9 %
5th year 2015-2016	119	9	30	51	23	6
%	100%	7.56 %	25.2 %	42.86 %	19.36 %	5 %

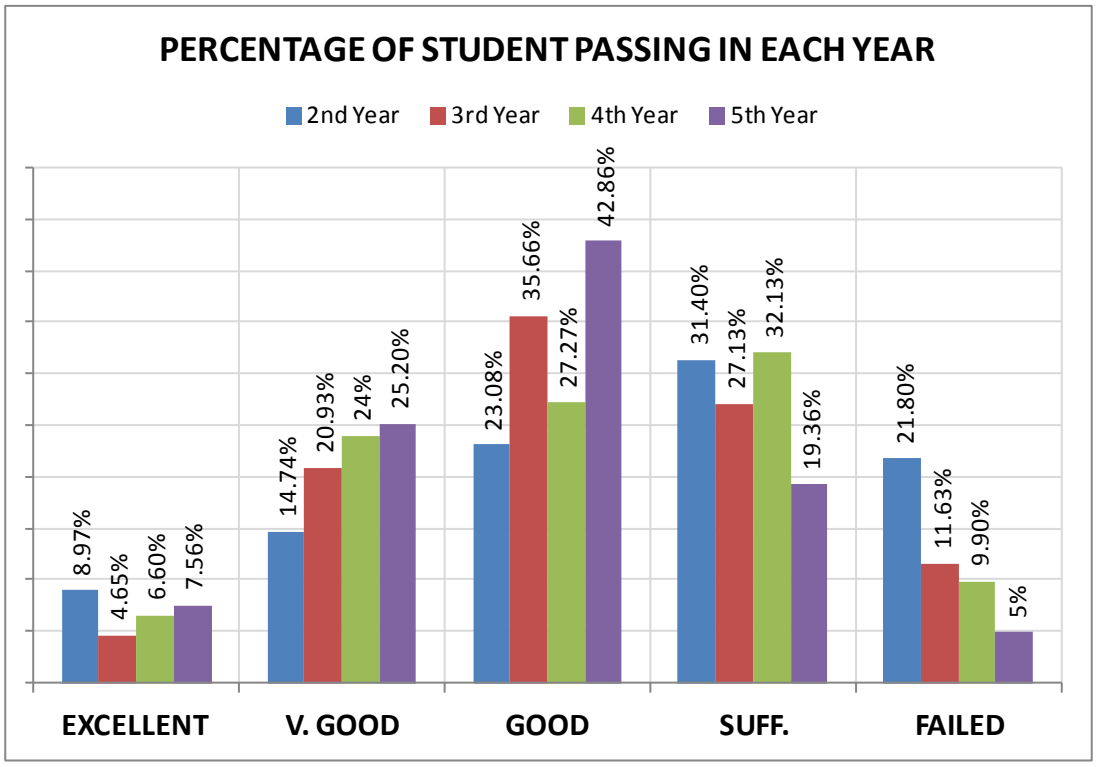

Figure (3): No. and percentage of students passing in each grade

Academic year	Number	Percentage
students joining the program on Sept 2014	119	100%
students completing the program at May 2015	76	63.86%
students completing the program at Nov 2015	33	27.73%
Total Number of students completing the program at 2015	109	91.6%

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 2015-2016 (119students)	9	7.56	30	25.2	42	35.3	28	23.53	10	8.4

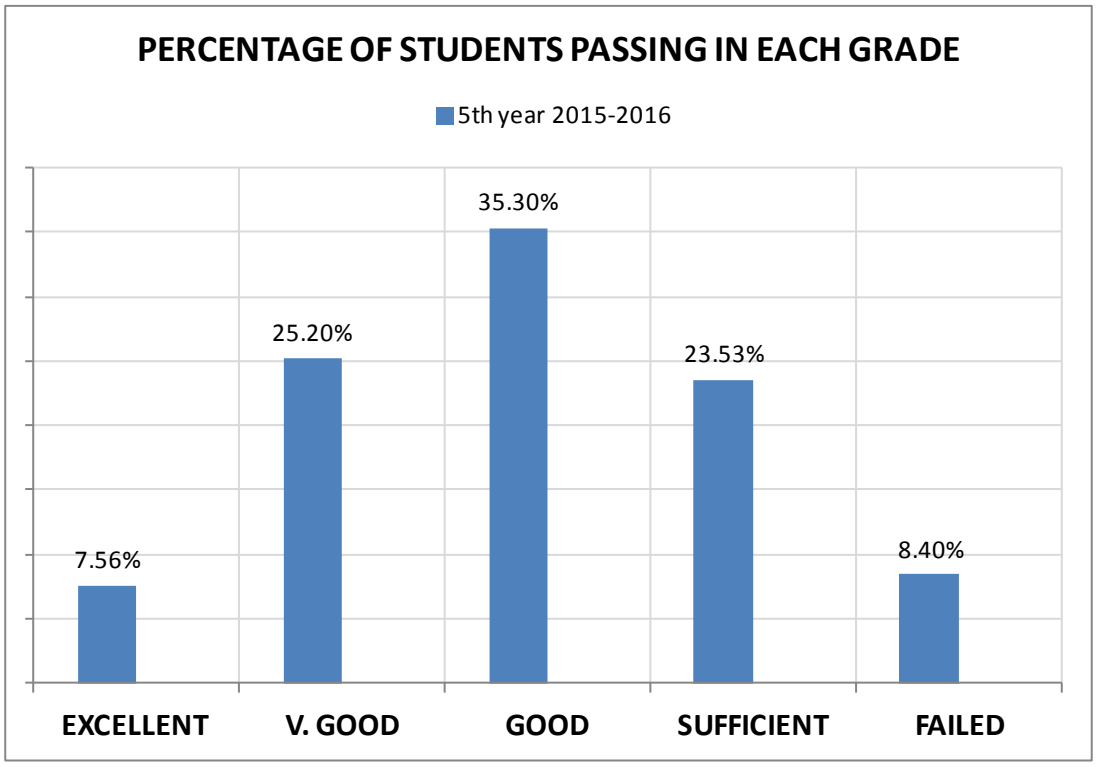

Figure (4): No. and percentage of students passing in each grade 5th year

6-First destinations of graduates:

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

2.2 Academic Standards

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

2nd year Manufacturing Eng. & Prod. Technology

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

3rd year Manufacturing Eng. & Prod. Technology

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

4th year Manufacturing Eng. & Prod. Technology

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

5th year Manufacturing Eng. & Prod. Technology

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

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

Comments of external evaluator and other stakeholders

1- Basic Information

a) Comments of stakeholders:

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

b) Comments of external evaluator

1) First Evaluator

Refer to previous report (2010/2011)

2) Second Evaluator

Refer to previous report (2010/2011)

2- Professional Information

a) Comments of stakeholders:

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

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

b) Comments of external evaluator

1) First Evaluator

Refer to previous report (2010/2011)

2) Second Evaluator

Refer to previous report (2010/2011)

3- Regulation & Evaluation

a) Comments of stakeholders:

1) The highest failure rate in the department is in the second year - which is the first student's year in studying manufacturing engineering and production technology, this indicates that insertion of student into the department is not an easy process.
2) Students of the fifth year received the highest proportions of grades "Excellent, Very Good, and Good" 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

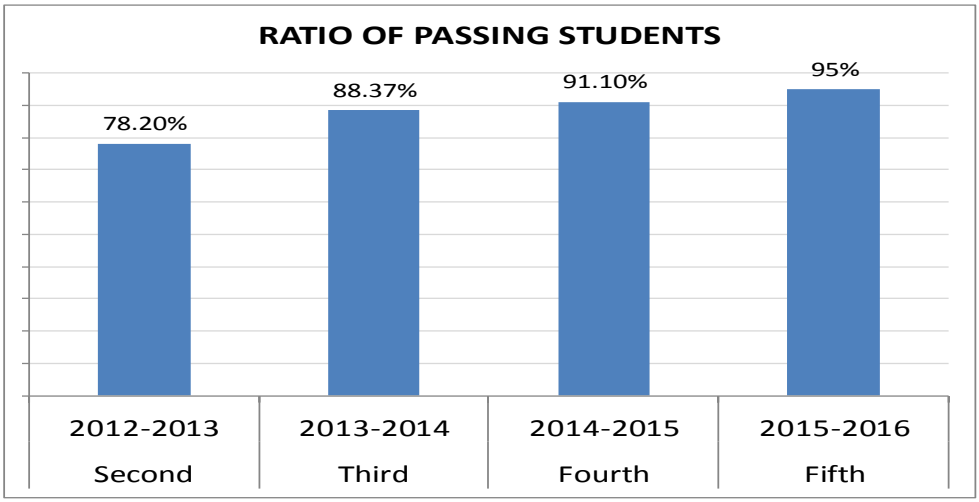

Figure (5): Graduated Students achievement through the program

After reviewing the results of students finishing the program in 2015-2016 regarding their achievements in each grade level throw different years, we can observe the increase in passing ratio for the same students each year.

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

a- Comments of stakeholders:

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

b- Comments of external evaluators :

1- First Evaluator

Refer to previous report (2010/2011)

2- Second Evaluator

Refer to previous report (2010/2011)

2.6 Quality of teaching and learning

Comments of external evaluator and other stakeholders including students

a- Comments of stakeholders

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

b- Comments of external evaluators :

1- First Evaluator

Refer to previous report (2010/2011)

Second Evaluator

Refer to previous report (2010/2011)

2.7 Effectiveness of student support systems

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

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

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

2.8 Learning resources

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

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

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

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

C. Availability and adequacy of program handbook

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

D. Adequacy of library facilities.

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

E. Adequacy of laboratories

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

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

F. Adequacy of computer facilities

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

G. Adequacy of field/practical training resources

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

H. Adequacy of any other program needs

None

2.9 Quality management

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

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

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

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

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

Strengthening activities for Quality Management

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

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

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

B. Effectiveness of the system

The quality management system is effective since there are:

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

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

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

D. Effectiveness of program external evaluation system:

I- External evaluators

The department program is evaluated by two qualified external evaluators.

II- Students

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

III- Other stakeholders

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

E. Faculty response to student and external evaluations

All the external evaluator's comments were taken in consideration and are stated with the department response in the "Program Specification".
There is an action plan set to be implemented in the following academic year.

3. Proposals for program development

A. Program structure (units/credit-hours)

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

B. Courses, deletions, additions, and modifications

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

C. Staff development requirements

According to the plane, two staff members and two assistants have been appointed in the department during the academic year 2014/2015. The department has a plan to increase the number of staff within the next 2 years to reach the ratio 1:25 for the staff to students, and the ratio of 1:15 for the staff assistants to students.

4. Progress of previous year's action plan

Action identified	Person Responsible	Progress of action
Training of Teaching Assistants on CAMWORKS package	Department	Done
Specialized training courses for all staff and teaching assistants	Training Sector of the Academy	Two training courses have been held ١- استخدام التكنولوجيا فى التدريس (٢ عضو هـ. ت.+ ٣ هيئة معاونة) (٢٦-٢٠١٥/١/٢٨) ٢- اخلاقيات البحث العلمى(٢ عضو هـ. ت.+ ٤ هيئة معاونة) (١٥-٢٠١٥/١١/١٧)
Complete the shortage in educational staff. (According to the plane one Staff member and 2 teaching assistants).	Administration of the Academy	Three staff members have been added to the department and two teaching assistants
Holding the Fifth scientific conference of the academy	Administration of the academy	Done
The Fifth & Sixth scientific conferences of the department	The department	Done

5. Action plan

Action required	Person Responsible	Completion Date
Specialized training courses for all staff and teaching assistants	Training Sector of the Academy	Should be held during 2016/2017
Complete the shortage in educational staff. (According to the plane one Staff member and 2 teaching assistants).	Administration of the Academy	Academic year 2016-2017
Holding the Sixth scientific conference of the academy	Administration of the academy	After finishing the graduation projects.
Scientific the 7th and 8th conferences of the department	The department	Two conferences, one in each semester
Preparing the department laboratories to be moved to the new building	Administration & Department	September 2017

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	B142	Descriptive Geometry
14	E112	Introduction to Computer II
15	M151	Engineering Drawing & Projection II
16	M161	Production Engineering II

Annual Course Report
(Academic Year 2011-2012)

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 **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.** 1405 **%** 100
No. of students completing the course: **No.** 1365 **%** 97.15

Results:

	No.	%
Passed	1299	95.16
Failed	66	4.84

Grading of successful students:

	No.	%
Excellent	268	19.63
Very Good	336	24.62
Good	304	22.27
Pass	391	28.64

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: **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 2012– 2013

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

Course coordinator: Abdel-Hamid Mohammed El-Khoreby
Signature:
Date: August 2012

Annual Course Report
(Academic Year 2011-2012)

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.1405 **%** 100
No. of students completing the course: No.1361 **%** 96.7
Results:

	No.	%
Passed	1071	78.69
Failed	290	21.31

Grading of successful students:

	No.	%
Excellent	61	4.48
Very Good	133	9.77
Good	225	16.53
Pass	652	47.91

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	
• Exponential 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 and applications	**12**	
• 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 2012– 2013

Actions required	Completion date	Person responsible
None	Aug. 2012	A.Prof. Dr. M. Khalifa

Course coordinator: A.Prof. Dr. M. Khalifa
Signature:
Date: Aug. 2012

Annual Course Report
(Academic Year 2011-2012)

A- Basic Information

Title and code: ***B121: Mechanics (I)***
2- Program(s) on which this course is given: General
3- Year/Level of program: First year / First term
4- Unit hours Lectures 2 hrs Tutorial 1hrs Practical 0hr Total 3hrs
5- Names of lecturers contributing to the delivery of the course :
Prof. Dr. Hassan Awad Course coordinator:
Prof. Dr. Hassan Awad
External evaluator : Non

B- Statistical Information

No. of students attending the course: No. 1405 **%** 100
No. of students completing the course: No. 1362 **%** 96.93

Results:

	No.	%
Passed	997	73.20
Failed	365	26.79

Grading of successful students:

	No.	%
Excellent	37	2.72
Very Good	87	6.39
Good	158	11.60
Pass	715	52.50

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: Practical training/ laboratory:
Seminar/Workshop:
Class activity:
Case Study:
Other assignments/homework:
If teaching and learning methods were used other than those specified, list and give reasons: 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:	**Response of course team**
List any criticisms	
➢ New assistants make some mistakes in solution of problems	New assistants attend lectures and all exercises are Supervised by 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 a**ny non-completion** Non

9- Action plan for academic year 2012– 2013

Actions required	Completion date	Person responsible
Preparation of the course by new assistants	Nov.2012	Prof. Dr. Mahmoud El-Maddah

Course coordinator: **Prof. Dr. Hassan Awad**
Signature:
Date: Nov.2012

Annual Course Report
(Academic Year 2011-2012)

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. 1405 % 100
No. of students completing the course: No. 1364 % 97.08
Results:

	No.	%
Passed	1131	82.92
Failed	233	17.08

Grading of successful students:

	No.	%
Excellent	59	4.33
Very Good	143	10.48
Good	301	22.07
Pass	628	46.04

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 :	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 2012– 2013

Actions required	Completion date	Person responsible
1. Provide more data show apparatuses	Nov.2012	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. 2012

Annual Course Report
(Academic Year 2011-2012)

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. 1405 % 100
No. of students completing the course: No. 1360 % 96.79
Results:

	No.	%
Passed	1189	87.43
Failed	171	12.57

Grading of successful students:

	No.	%
Excellent	120	8.82
Very Good	220	16.18
Good	339	24.93
Pass	510	37.50

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Gas laws and gas liquefaction	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	
A- 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: Non

3- Student assessment:

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

Members of examination committee Prof. Dr. 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:	**Response of course team**
List any criticisms	
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):	**Response of course team**
Non	**Non**

8- Course enhancement:

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

9- Action plan for academic year 2012– 2013

Actions required	Completion date	Person responsible
Provide more data show apparatuses	Nov. 2012	Prof. Dr. S. R. Gouda

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

B- Statistical Information

No. of students attending the course: **No.** 1405 **%** 100
No. of students completing the course: **No. 1270** **%** 93.43
Results:

	No.	%
Passed	1270	100
Failed	0	0

Grading of successful students:

	No.	%
Excellent	67	5.55
Very Good	257	18.77
Good	340	24.84
Pass	606	44.27

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Practical
• Historical overview	2	
• Types of computers	2	
• Indices of computer performance	6	
• Computer components	4	
• Storage media	4	
• Numbering Systems	2	
• Binary arithmetic	4	
• DOS operating system and commands	4	
• Windows operating system	2	
• Text editing		
Total hours	**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 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: **Response of course team**

List any criticisms

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

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 2012 – 2013

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

Course coordinator: Prof. Dr Said A.Gawish
Signature:
Date: October 2012

Annual Course Report
2011/2012

A- Basic Information

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

B- Statistical Information

No. of students attending the course: No. 1405 **%** 100
No. of students completing the course: No. 1357 **%** 96.58
Results:

	No.	%
Passed	1226	90.35
Failed	131	9.65

Grading of successful students:

	No.	%
Excellent	68	5.01
Very Good	177	13.04
Good	327	24.1
Pass	654	48.19

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours			Lecturer
	L	T	P	
Drawing Instruments , Drw sheets, Scales, Folding ,lettering	2			*Prof. Dr. Mamdouh Sabe Elsayed*
Alphabet of lines; Geom. .Construction	2			
Theory of orthographic projection Proj .of point ;line ; plane ;true shape	2			
Projection of geometric solids .	2			
Developments	2			
Cutting geometric solids with planes and its developed surfaces .	2			
Intersection of surfaces of geometric solids .	2			
Multiview Drawing .	2			
Revision Problems	2			
Total hours	**18**			

Topics taught as a percentage of the content specified:
>90 % 100 ... **70-90 %** **<70%** ....
Reasons in detail for not teaching any topic:
Actual no. of teaching weeks last term was 12weeks 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 OHP Black board /White board
Practical training/ laboratory: None
Seminar/Workshop: Drawing of several problems weekly using traditional methods and free hand sketches
Class activity:
Case Study: Selected cases
Other assignments/homework: Weekly
If teaching and 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 & activities	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	Non

5- Administrative constraints

List any difficulties encountered

1. Limitation of number of data show in the principal building.
2. Drawing haul aren't equipped with loudspeakers.
3. 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 Comments*
Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2012 – 2013

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

Course coordinator: *Prof . Dr. Mamdouh Saber*
Signature:
Date: 9/2012

Annual Course Report
(Academic Year 2011-2012)

A- Basic Information

1- Title and code: ***M160: Production Engineering (1)***
2- Program(s) on which this course is given: General
3- Year/Level of program: 1st year / 1st term
4- Unit hours: Lectures 1 hrs **Tutorial: 0 Practical** 4 hrs **Total** 5 hrs
5- Names of lecturers contributing to the delivery of the course:
Prof. Dr. M. Merdan
Prof. Dr. A. Kohail
Course coordinator: Prof. Dr. M. Merdan
External evaluator: None

B- Statistical Information

No. of students attending the course: **1405** **100%**
No. of students completing the course: **1367** 97.29%

Results:

	No.	%
Passed	1222	89.39
Failed	145	10.61

Grading of successful students:

	No.	%
Excellent	87	6.36
Very Good	233	17.04
Good	308	22.53
Pass	594	43.45

C- Professional Information

1 – Course teaching

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

Sheet metal shop			4
Forging shop			4
Practical Exams		8	
Total	**14**	**12**	**44**

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

2- Teaching and learning methods:

- **Lectures:** Classical lecturing using the white board
- **Practical training/ laboratory:** None
- **Seminar/Workshop:** Workshop
- **Class activity:**
  - Solving problems concerning the determination of material ultimate stress, yield stress, % elongation, % reduction, and young's modulus
  - Calculation of hardness numbers; HBN, HVN, HRC, and HRB
- **Case Study:** None
- **Other assignments/homework:** One assignment report at the end of the term
- **If teaching and learning methods were used other than those specified, list and give reasons:**
  None

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	60 %
Oral examination	
Practical/laboratory work	
Other assignments/class work	40 %
Total	**100 %**

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

4- Facilities and teaching materials:

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

5- Administrative constraints
List any difficulties encountered None

6- Student evaluation of the course:

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

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

8- Course enhancement:

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

9- Action plan for academic year 2012-2013

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

Preparation of new materials and cutting tools required for carrying out the practical work in each shop	Feb. 2013	Prof. Dr . M.Merdan

Course coordinator: Prof. Dr. M. Merdan
Signature:
Date: August 2012

Annual Course Report
(Academic Year 2011-2012)

A- Basic Information

1- Title and code: B102: English Language (2)
2- Program(s) on which this course is given: Computer and Tech. English
3- Year/Level of program: First year / 2nd Semester
4- Unit hours Lectures -- 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. 1405 **%** 100
No. of students completing the course: No. 1337 **%** 90.55
Results:

	No.	%
Passed	1324	99.03
Failed	13	0.97

Grading of successful students:

	No.	%
Excellent	220	16.45
Very Good	343	25.65
Good	375	28.05
Pass	386	28.87

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

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: **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 2012 – 2013

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

Course coordinator: Abdel-Hamid Mohammed El-Khoreby
Signature:
Date: September 2012

Annual Course Report
(Academic Year 2011-2012)

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. 1405 **%** 100
No. of students completing the course: No. 1328 **%** 94.5

Results:

	No.	%
Passed	1060	79.82
Failed	268	20.18

Grading of successful students:

	No.	%
Excellent	123	9.26
Very Good	172	12.95
Good	205	15.44
Pass	560	42.17

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 2011 – 2012

Actions required	Completion date	Person responsible
None	Aug. 2012	A.Prof. Dr. M. Khalifa

Course coordinator: A.Prof. Dr. M. Khalifa
Signature:
Date: Aug. 2012

Annual Course Report (2011-2012)

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. 1405 % 100
No. of students completing the course: No. 1323 % 94.17
Results:

	No.	%
Passed	886	66.97
Failed	437	33.03

Grading of successful students:

	No.	%
Excellent	34	2.57
Very Good	55	4.16
Good	132	9.98
Pass	665	50.26

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***	
B- Space mechanics	***2***	
C- Impact	***2***	
D- 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	.....
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 2012 – 2013

Actions required	Completion date	Person responsible
Preparation of the course by new assistants	Jan. 2013	Prof. Dr. Mahmoud El-Maddah

Course coordinator: Prof. Dr. Mahmoud El- Maddah
Signature:
Date: August 2012

Annual Course Report
(Academic Year 2011-2012)

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. 1405 % 100
No. of students completing the course: No. 1328 % 94.52
Results:

	No.	%
Passed	1060	79.82
Failed	268	20.18

Grading of successful students:

	No.	%
Excellent	123	9.26
Very Good	172	12.95
Good	205	15.44
Pass	560	42.17

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 2012– 2013

Actions required	Completion date	Person responsible
1. Provide more data show apparatuses	Nov.2012	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.2012

Annual Course Report
2011-2012

A- Basic Information

1- Title and code: E112- Introduction to Computers II
2- Program(s) on which this course is given: 1st year General
3- Year/Level of program: 1st year
4- Unit hours: Lectures 2 hrs Tutorial 0 hrs Practical 2 hr Total 4 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Said A. Gawish
Course coordinator Prof. Dr. Said A. Gawish
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 1405 **%** 100
No. of students completing the course: **No 1102** **%** 83.61
Results:

	No.	%
Passed	770	58.42
Failed	216	16.39

Grading of successful students:

	No.	%
Excellent	35	2.66
Very Good	74	5.61
Good	223	16.92
Pass	770	58.42

C- Professional Information

1 – Course teaching

Topic Actually taught	Lecture hours	Practical hours	Lecturer
• Information technology	2		Prof. Dr. Said Gawish 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	

5- Administrative constraints

List any difficulties encountered

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

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

List any criticisms

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 None

9- Action plan for academic year 2012 – 2013

Actions required	Completion date	Person responsible
None		

Course coordinator: Prof. Dr Said A. Gawish
Signature:
Date: October 2012

Annual Course Report
2011/2012

A- Basic Information

1- Title and code: (*M151) Engineering Graphics (2)*
2- Program(s) on which this course is given:
3- Year/Level of program: 1st year- 2nd semester
4- Unit hours Lectures 1 hrs Tutorial 4 hrs Practical - Total 5 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Mamdouh Saber Elsayed
Course coordinator
External evaluator: None

B- Statistical Information

No. of students attending the course: No. 1405 **%** 100
No. of students completing the course: No. 1318 **%** 93.81
Results:

	No.	%
Passed	1102	83.61
Failed	216	16.39

Grading of successful students:

	No.	%
Excellent	35	2.66
Very Good	74	5.61
Good	223	16.92
Pass	770	58.42

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours			Lecturer
	L	T	P	
Importance of drawing sections	2			*Prof. Dr. Mamdouh Saber Elsayed*
Basic types of section ; Full section ; Imgitidinal ;Cross sections	2			
Off –set ;aligned sections	2			
Half –Section ;Partial ;Revolved &Removed ; Auxiliary sections	2			
Dimensioning –Arrangement ;Rules for dimensioning	2			
Conventional practice in ED	2			
Drawing of steel sections	2			
Steel Constructions	2			
Revision Problems	2			
Total hours	**18**			

Topics taught as a percentage of the content specified:
>90 % 100 ... **70-90 %** **<70%** ....
Reasons in detail for not teaching any topic:
Actual no.of teaching weeks last 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 OHP Black board /White board
Practical training/ laboratory: None
Seminar/Workshop:
Class activity: Drawing of several problems weekly using traditional methods 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: None

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	60 %
Oral examination	**----**
Practical/laboratory work	.....
Other assignments/class work & activities	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	Non

5- Administrative constraints

List any difficulties encountered
1-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 Comments*
Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2012– 2013

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

Course coordinator: *Prof . Dr. Mamdouh Saber*
Signature:
Date: **9/**2011

Annual Course Report
(Academic Year 2011-2012)

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: 1405 100%
No. of students completing the course: 1329 94.59%

Results:

	No.	%
Passed	1231	92.63
Failed	98	7.37

Grading of successful students:

	No.	%
Excellent	161	12.11
Very Good	284	21.37
Good	344	25.88
Pass	442	33.26

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical Hours
Lecture Part: Every other week			
Metal forming processes; Hot and Cold Forming; Forging, Rolling, Extrusion, and Drawing processes	3		
Machining Processes; Traditional and None-traditional.	1		
Turning Process; Basic concepts, main and secondary motions, machine tools used, cutting tools types and clamping, workpiece clamping and different turning operations performed, attainable accuracy and surface finish.	4		
Basic concepts of Drilling, Boring,. Production of accurate holes.	2		
Basic concepts of Shaping, and Milling processes	1		
Basic concepts of surface and cylindrical grindings	1		
Introduction into quality management and quality control	2	4	
Practical Part: Revision on the basic concepts, solution of some selective associated questions in turn of each shop. Beside, the student is applying the gained knowledge in carrying out a specially designed product in each one of these shops			
Casting Shop			4
Locksmith shop			4
Measurement and Ex. shop			4
Welding shop			4
Turning shop			4

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

- **Topics taught as a percentage of the content specified:**

>90 % 100 **70-90 %** **<70%** ….

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

2- Teaching and learning methods:

- **Lectures:** Classical lecturing using the white board
- **Practical training/ laboratory:** None
- **Seminar/Workshop:** Workshop
- **Class activity:**
  Solution of problems of Break-even analysis and Calculation of machining time
- **Case Study:** None
- **Other assignments/homework:** One assignment report at the 12th week
- **If teaching and learning methods were used other than those specified, list and give reasons:**
  None

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	60 %
Oral examination	
Practical/laboratory work	
Other assignments/class work	40 %
Mid-Term Exam	
Total	100 %

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

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

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

7- Comments from external evaluator(s):

	Response of course team
None	None

8- Course enhancement:

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

9- Action plan for academic year 2012 – 2013

Actions required	Completion date	Person responsible
Preparation of new materials and cutting tools required for carrying out the practical work in each shop	Oct. 2013	Prof. Dr. M.Merdan

Course coordinator: Prof. Dr. M. Merdan
Signature:
Date: August 2012

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 2012-2013)

A- Basic Information

1- Title and code: ***A060: Civil Engineering Technology***
2- Program(s) on which this course is given: Mechanical Engineering
3- Year/Level of program: Second Year, 1st semester
4- Unit hours Lectures 2 hrs Tutorial 2hrs Practical --- Total 4 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Adham ELAlfy
Course coordinator Prof. Dr. Adham ELAlfy
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 204 100%
No. of students completing the course: **No.** 145 71.08
Results:

	No.	%
Passed	137	94.5
Failed	8	5.5

Grading of successful students:

	No.	%
Excellent	8	5.5
Very Good	36	24.8
Good	42	29
Pass	51	35.2

C- Professional Information

1 – Course teaching

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

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

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and data show
Practical training/ laboratory: non
Seminar/Workshop: ------
Class activity: exercises, , quizes, problems
Researches: ---
Other assignments/homework: weekly assignments

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

3- Student assessment:

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

Members of examination committee Prof. Dr. Adham ELAlfy
Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate	yes
Adequate to some extent	----
Inadequate	.....
List any inadequacies	Non

5- Administrative constraints

List any difficulties encountered
Non

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

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

8- Course enhancement:

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

9- Action plan for academic year 2013 – 2014 **Non**

Course coordinator: Prof. Dr. Adham ELAlfy
Signature:
Date: 29/8/2013

Annual Course Report
(Academic Year 2011-2012)

A- Basic Information

1- Title and code: B200: English Language (III)
2- Program(s) on which this course is given: Manufacturing Engineering & Production Technology
3- Year/Level of program: 2nd year / 1st Semester
4- Unit hours Lectures hrs Tutorial 2 hrs Total 2 hrs
5- Names of lecturers contributing to the delivery of the course
Abdel-Hamid Mohammed El-Khoreby
Course coordinator : Abdel-Hamid Mohammed El-Khoreby
External evaluator Non

B- Statistical Information

No. of students attending the course: **No.** 204 100%
No. of students completing the course: **No.** 147 72.06
Results:

	No.	%
Passed	147	100
Failed	0	0

Grading of successful students:

	No.	%
Excellent	61	41.5
Very Good	40	27.2
Good	28	19
Pass	18	12.2

C- Professional Information

1 – Course teaching

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

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

2- Teaching and learning methods:

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

Other assignments/homework: Bi-weekly assignments

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

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

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

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

Role of external evaluator Non

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

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

5- Administrative constraints

List any difficulties encountered

- Non

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

List any criticisms

Non

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

Non **Non**

8- Course enhancement:

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

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

9- Action plan for academic year 2013 – 2014

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

Course coordinator: Abdel-Hamid Mohammed El-Khoreby

Signature:

Date: November 2013

Annual Course Report
(Academic Year 2012-2013)

A- Basic Information

1- Title and code: Math. III. Ordinary Differential Equations and Advanced Calculus(1), B211
2- Program(s) on which this course is given: Manufacturing Eng. & Prod. Tech. BSc Program
3- Year/Level of program: 2nd year, (Elect. Mech.) 1st Term
4- Unit hours: Lectures 4 hrs Tutorial 2 hrs Practical hr Total 6 hrs
5- Names of lecturers contributing to the delivery of the course
Course coordinator Prof. Dr. Osama El Gyar
Prof. Dr. Aly Essawi
External evaluator: None

B- Statistical Information

No. of students attending the course: No. 204 100%
No. of students completing the course: No. 144 70.6%
Results:

	No.	%
Passed	115	79.9
Failed	29	20.1

Grading of successful students:

	No.	%
Excellent	7	4.9
Very Good	15	10.4
Good	23	16
Pass	70	48.6

C- Professional Information

1 – Course teaching

3 – Contents

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

Topics taught as a percentage of the content specified:

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

Reasons in detail for not teaching any topic

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

2- Teaching and learning methods:

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

Practical training/ laboratory: None

Seminar/Workshop: None

Class activity: Numerical exercises; solution of problems

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments

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

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	70 %
Oral examination	**----**
Practical/laboratory work	%
Other assignments/class work	10 %
Mid-Term Exam	20 %
Total	**100 %**
Members of examination committee	Prof. Dr. Osama El Gyar **Prof Dr. Aly M. Essawi**
Role of external evaluator	None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered

- None

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

List any criticisms

None

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

8- Course enhancement:

Progress on actions identified in the previous year's action plan: This is the first annual report

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

9- Action plan for academic year 2013– 2014

Actions required	Completion date	Person responsible
None		

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

Signature:

Date: Jan.2013

Annual Course Report
Academic year 2012-2013

A- Basic Information

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

B- Statistical Information

No. of students attending the course: **No.** 596 **%** …100.
No. of students completing the course: **No.** 564 **%** 94.63

Results:

	No.	%
Passed	564	94.63
Failed	32	5.37

Grading of successful students:

	No.	%
Excellent	117	19.63
Very Good	73	12.25
Good	107	17.95
Pass	267	44.80

C- Professional Information

1 – Course teaching

Topics Actually Taught	Lecture hours	Practical hours	Lecturer
• Concepts of structured programming	2		Prof. Dr. Said Gawish 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	Prof. Dr. Adel El-Sherif 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

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

List any criticisms

None

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

8- Course enhancement:

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

9- Action plan for academic year 2013 – 2014

Actions required	Completion date	Person responsible
None		

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

Annual Course Report
2012/2013

A- Basic Information

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

B- Statistical Information

No. of students attending the course: No. 204 **%** 100
No. of students completing the course: No. 148 **%** 72.5

Results:

	No.	%
Passed	143	96.6
Failed	5	3.4

Grading of successful students:

	No.	%
Excellent	28	18.9
Very Good	39	26.4
Good	30	20.3
Pass	46	31.1

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	Dr. Abdelmagid A. Abdalla
• Viscous Flow in Pipes General characteristics of pipe flow, fully developed laminar flow.	4	
Total hours	**68**	

Topics taught as a percentage of the content specified:

>90 % --- **70-90 %** **76** **<70%** ....

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

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

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board
Practical training/ laboratory: Experimental measurements in Lab
Seminar/Workshop: None
Class activity: Numerical exercises
Case Study: None
Other assignments/homework: Bi-weekly assignments
If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

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

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

Role of external evaluator None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered

- **Limitation of number of operating experiments in the laboratory**

6- Student evaluation of the course:

List any criticisms	**Response of course team**
- Allocated periods for exercise and are not sufficient.	- Increasing the number of solved problems during the lecture.
- Some drawings in the book are bad.	- The book will be modified next year.

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

8- Course enhancement:

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

9- Action plan for academic year 2013 – 2014

Actions required	Completion date	Person responsible
None		

Course coordinator: Dr. Abdelmagid A. Abdalla
Signature:
Date: 1/11/2013

Annual Course Report
2012/2013

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
External evaluator: None

B- Statistical Information

No. of students attending the course: No. 204 **%** 100
No. of students completing the course: No. 148 **%** 72.55
Results:

	No.	%
Passed	136	91.89
Failed	12	8.11

Grading of successful students:

	No.	%
Excellent	17	11.5
Very Good	29	19.6
Good	28	18.9
Pass	62	41.9

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 Post	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*

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 2013 – 2014

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

Course coordinator: *Prof . Dr. Mamdouh Saber*
Signature:
Date: 9/2013

Annual Course Report
2012 - 2013

A- Basic Information

1- Title and code: *M 251:Mechanics of Machines (I)*
2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
3- Year/Level of program: Second year Manufacturing Eng. & Prod. Tech.
4- Unit hours Lectures 2 hrs Tutorial 2hrs Practica l - Total 4 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Ahmed Sarhan
Course coordinator Prof. Dr. Ahmed Sarhan
External evaluator Non

B- Statistical Information

No. of students attending the course: **No.** 204 100%
No. of students completing the course: **No.** 147 72.06%
Results:

	No.	%
Passed	139	94.6
Failed	8	5.4

Grading of successful students:

	No.	%
Excellent	38	25.9
Very Good	47	32
Good	22	15
Pass	32	21.8

C- Professional Information

1 – Course teaching

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

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

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board
Practical training/ laboratory: No
Seminar/Workshop: Non
Class activity: Numerical exercises;
Case Study: Selected case studies
Other assignments/homework: weekly assignments
If teaching and learning methods were used other than those specified, list and give reasons:
Non

3- Student assessment:

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

Members of examination committee Dr. Ahmed Sarhan
Role of external evaluator Non

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered

- **None**

6- Student evaluation of the course:

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

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

8- Course enhancement:

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

9- Action plan for academic year 2013 – 2014

Actions required	Completion date	Person responsible

Course coordinator: Prof. Dr Ahmed Sarhan
Signature:
Date: 25/10/2013

Annual Course Report

Academic year 2012-2013

A- Basic Information

1- Title and code: (M261) Strength of Material
2- Program(s) on which this course is given: Production Engineering and manufacturing
3- Year/Level of program: Second Year/First Semester
4- Unit hours Lectures 2 hrs Practical 2 hr Total 4 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Ahmed El-Sanabary
Course coordinator Prof. Dr. Ahmed El-Sanabary
External evaluator

B- Statistical Information

No. of students attending the course: No. 147 **%** 100
No. of students completing the course: No. 147 **%** 100

Results:

	No.	%
Passed	116	78.91
Failed	31	21.09

Grading of successful students:

	No.	%
Excellent	15	10.2
Very Good	20	13.61
Good	31	21.1
Pass	50	34

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 reaso Non

3- Student assessment:

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

Members of examination committee Prof.Dr. Abd El 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

- Non

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

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

8- Course enhancement:

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

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 2013 – 2014

Actions required	Completion date	Person responsible
Non	Non	Non

Course coordinator: Prof. Dr Ahmed El-Sanabary
Signature:
Date: 3/09/2013

Annual Course Report
(Academic Year 2012-2013)

A- Basic Information

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

2- Program(s) on which this course is given: Manufacturing Eng. & Prod. Tech. BSc Program

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

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

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

Prof. Dr.: Shaban Ragab Gouda

Course coordinator Prof. Dr.: Shaban Ragab Gouda

External evaluator: Non

B- Statistical Information

No. of students attending the course: No. 204 % 100%

No. of students completing the course: No. 147 % 72.06

Results:

	No.	%
Passed	47	97.3
Failed	4	2.7

Grading of successful students:

	No.	%
Excellent	42	28.6
Very Good	42	28.6
Good	32	21.8
Pass	27	18.4

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
* العلم والهندسه والتكنولوجيا	2	Prof. Dr. S. R. Gouda
* الهندسه والبحث العلمى – منظومه البحث العلمى	4	
* عناصر ومتطلبات البحث العلمى	2	
* الهندسه وخريطه البحث العلمى – مراحل البحث العلمى	2	
* تاريخ الهندسه والتكنولوجيا فى مختلف العصور	4	
* نقل التكنولوجيا	2	
* نشاطات العمل الهندسى ومسئوليه المهندس	2	
* التعليم الهندسى	2	
١- * نقابه المهندسين المصريه – جمعيه المهندسين المصريه	4	
٢- * تطور اوجه النشاط الهندسى والتكنولوجى	4	
٣- * اشهر علماء الهندسه والتكنولوجيا	2	
Total hours	30	

Topics taught as a percentage of the content specified:

>90 % [100] **70-90 %** [-] **<70%** [--]

Reasons in detail for not teaching any topic . Non

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

2- Teaching and learning methods:

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

Practical training/ laboratory: [None]

Seminar/Workshop: [None]

Class activity: None

Case Study: None

Other assignments/homework: None

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

3- Student assessment:

Method of assessment	Percentage of total
Written examination	70 %
Oral examination	None
Practical/laboratory work	None
Other assignments/class work	10%
Mid-Term Exam	20 %
Total	**100 %**
Members of examination committee	Prof. Dr. S. R. Gouda
Role of external evaluator	None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:	**Response of course team**
List any criticisms	
None	None

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

8- Course enhancement:

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

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

9- Action plan for academic year 2013– 2014

Actions required	Completion date	Person responsible
Non		Non

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

Signature:

Date: Aug.2013

Annual Course Report
(Academic Year 2012-2013)

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. 204 100%
No. of students completing the course: No. 145 71.08%

Results:	**No.**	**%**
Passed	118	81.3
Failed	27	18.7

Grading of successful students:

	No.	**%**
Excellent	25	17.2
Very Good	18	12.4
Good	21	14.5
Pass	54	37.2

C- Professional Information

1 – Course teaching

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

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

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board, projectors and data show
Practical training/ laboratory: None
Seminar/Workshop: None
Class activity: Numerical exercises; solution of problems
Case Study: Selected case studies
Other assignments/homework: Bi-weekly assignments
If teaching and learning methods were used other than those specified, list and give reasons:
None

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	70 %
Oral examination	----
Practical/laboratory work	%
Other assignments/class work	10 %
Mid-Term Exam	20 %
Total	**100 %**
Members of examination committee	Prof. Dr. Osama El Gyar Prof Dr. Aly M. Essawi
Role of external evaluator	None

4- Facilities and teaching materials:

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

5- Administrative constraints
List any difficulties encountered
- None

6- Student evaluation of the course: **Response of course team**
List any criticisms
None

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

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

9- Action plan for academic year 2013 – 2014

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

Course coordinator: Prof. Dr. Osama El Gyar
Prof. Dr. Aly M. Essawi
Signature:
Date: Aug. 2012

Annual Course Report
Academic year 2012-2013

A- Basic Information

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

B- Statistical Information

No. of students attending the course: **No.** 579 **%** …100.
No. of students completing the course: **No.** 579 **%** 87.05

Results:

	No.	%
Passed	504	87.05
Failed	75	12.95

Grading of successful students:

	No.	%
Excellent	76	13.13
Very Good	51	8.81
Good	55	9.50
Pass	322	5561

C- Professional Information

1 – Course teaching

Topics Actually Taught	Lecture hours	Practical hours	Lecturer
• Function Returns and Types of Calls	4	4	Prof. Dr. Said Gawish Prof.Dr Said Gawish
• Arrays as function parameters in C++	2	4	
• Pointers	4	4	
• Pointers as function parameters	2	2	
• Structs in C++	4	4	
• Classes and Objects	14	8	
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: **Response of course team**

List any criticisms

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

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

8- Course enhancement:

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

9- Action plan for academic year 2013 – 2014

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

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

Annual Course Report
2012/2013

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.** 204 100 %
No. of students completing the course: **No.** 145 72.5 %
Results:

	No.	%
Passed	134	92.41
Failed	11	7.59

Grading of successful students:

	No.	%
Excellent	14	9.7
Very Good	27	18.6
Good	27	18.6
Pass	66	45.5

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.	4	
Total hours	**66**	

Topics taught as a percentage of the content specified:

>90 % --- **70-90 %** **73.3** **<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: **Response of course team**

List any criticisms

No student evaluation report

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

None

8- Course enhancement:

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

- None

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

9- Action plan for academic year 2011 – 2012

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

Course coordinator: Dr. Abdelmagid A. Abdalla

Signature:

Date: 1/11/2013

Annual Course Report
Academic Year 2012-2013

A- Basic Information

1- Title and code:(M252) Mechanics of Machines II
2- Program(s) on which this course is given: Production Engineering and manufacturing Technology
2- Year/Level of program: second Year, 2nd Semester
4- Unit hours Lectures 2 hrs Tutorial 2 hrs Practical 0 hr Total 4 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Gaafar A. Hussein
Course coordinator Prof. Gaafar A. Hussein
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 204 100%
No. of students completing the course: **No.** 147 72.06%
Results:

	No.	%
Passed	145	98.6
Failed	2	1.4

Grading of successful students:

	No.	%
Excellent	55	37.4
Very Good	41	27.9
Good	32	21.8
Pass	17	11.6

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Kinematics of motion	8	Prof. Dr. Gaafar A. Hussein
• Velocity in mechanisms	8	
• Gears and gear trains	20	
• Gyroscopic couple and processional motion	12	
• Inertia forces in reciprocating parts	8	
Total hours	**56**	

Topics taught as a percentage of the content specified:
>90 % 100 **70-90 %** **<70%** ….
Reasons in detail for not teaching any topic None
If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:
Lectures: Classical lecturing using the white board and computer supported learning
Practical training/ laboratory: None
Seminar/Workshop: None
Class activity: Numerical exercises; solution of problems and demonstrations by data show.
Case Study: Selected case studies
Other assignments/homework: weekly assignments
If teaching and learning methods were used other than those specified, list and give reasons:
None

3- Student assessment:

Method of assessment	Percentage of total
Written examination	70%

Oral examination	**----**
Practical/laboratory work	0 %
Other assignments/class work	15 %
Mid-Term Exam	15 %
Total	**100 %**
Members of examination committee	**Prof.** Gaafar A. Hussein Dr. Abdelmagid abdalla
Role of external evaluator	None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered

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

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

List any criticisms

None

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

None **None**

8- Course enhancement:

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

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

9- Action plan for academic year 2013– 2014

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

Course coordinator: Prof. Gaafar A. Hussein

Signature:

Date: 17/10/2013

Annual Course Report
2012/2013

A- Basic Information

1- Title and code*: (M253)Engineering Skills(2)*
2- Program(s) on which this course is given: *Manufacturing Engineering & Production Tech.*
3- Year/Level of program: *2nd Year Mechanical*
4- Unit hours Lectures 2 hrs Tutorial 4 hrs Practical - Total 6 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Mamdouh Saber Elsayed
Course coordinator
External evaluator: None

B- Statistical Information

No. of students attending the course: No. 204 **%** 100
No. of students completing the course: No. 144 **%** 70.59
Results:

	No.	%
Passed	128	88.89
Failed	16	11.11

Grading of successful students:

	No.	%
Excellent	13	9
Very Good	29	20.1
Good	19	13.2
Pass	67	46.5

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 Post	2		4	
Key Joints	2		4	
Pin joints	2		4	
Couplings (Ass.&Det . drw)	2		4	
Pulley Assembly	2		4	
Belt Tightener	2		4	
Total hours	**28**		**56**	

Topics taught as a percentage of the content specified:

>90 % 100… **70-90 %** **<70%** ….

Reasons in detail for not teaching any topic:

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

2- Teaching and learning methods:

Lectures: Classical lecturing using white board and OHP
Practical training/ laboratory: *Teaching aids and life components*
Seminar/Workshop: *None*
Class activity:
Case Study:
Other assignments/homework:
If teaching and learning methods were used other than those specified, list and give reasons: *None*

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	70 %
Oral examination	**----**
Practical/laboratory work	…..
Other assignments/class work & activities	20 %
Mid-Term Exam	10 %
Total	**100 %**
Members of examination committee	*Prof . Dr. Mamdouh Saber*
Role of external evaluator	*None*

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered

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 2013 – 2014

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

Course coordinator: *Prof . Dr. Mamdouh Saber*
Signature:
Date: 9/2013

Annual Course Report
Academic year 2012-2013

A- Basic Information

1- Course Code & Title: (M262) Materials Technology
2- Program(s) on which this course is given: Manufacturing Eng. and Production Tech. BSc Program
3- Year/Level of program: Second Year/Second Semester
4- Teaching hours
Total 4 hrs Lectures 2 hrs Tutorial 1 hrs Practical 1 hr
5- Names of lecturers contributing to the delivery of the course: Prof. Dr. Bakkar Elsarnga
6- Course coordinator: Prof. Dr. Bakkar Elsarngawy
7- External evaluator: Non

B- Statistical Information

1- No. of students attending the course:	**No.**	**204**	**100**	**%**
2- No. of students completing the course:	**No.**	**145**	**71.1**	**%**

3- Results:

	No.	%
Passed	125	86.2
Failed	20	13.8

Grading of successful students:		
Grade	No.	%
Excellent	18	12.4
Very Good	28	19.3
Good	29	20.0
Pass	50	34.5

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 reasons for any non-completion:

Actions required	Planned Completion date	Accomplishment
(a) Non		

9- Action plan for academic year 2013 – 2014

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

Course coordinator: Prof. Dr Bakkar Elsarngawy
Signature:
Date: November 21, 2013

Annual Course Report
2012/2013

A- Basic Information

1- Title and code: ***M271: Principles of Manufacturing***
2- Program(s) on which this course is given: Manufacture
3- Year/Level of program: 2nd year Manufacturing Technology / 2nd term
4- Unit hours Lectures 2 hrs Tutorial 2hrs Practical 0 hrs Total 4hrs
5- Names of lecturers contributing to the delivery of the course:
Prof. Dr. M. Merdan
Course coordinator: Prof. Dr. M. Merdan
External evaluator: None

B- Statistical Information

No. of students attending the course: 204
No. of students completing the course: 145

Result	No.	%
Passed	135	93.1
Failed	10	6.9

Grading of successful students:

	No.	%
Excellent	9	6.20
Very Good	14	9.70
Good	41	28.30
Pass	71	49.00

1 – Course teaching

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

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

2- Teaching and learning methods:

- **Lectures:** Classical lecturing using the white board
- **Practical training/ laboratory:** Yes
- **Seminar/Workshop:** None
- **Class activity:** **Solution of problems**
- **Case Study:** None
- **Other assignments/homework:** Assignment report each 4 weeks

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

3- Student assessment:

Method of assessment	**Percentage of total**
▪ **Written examination**	70 %
▪ **Oral examination**	
▪ **Practical/laboratory work**	
▪ **Other assignments/class work**	10 %
▪ **Mid-Term Exam**	20 %
Total	**100 %**
Members of examination committee	Prof. Dr. M. Merdan
Role of external evaluator	None

4- Facilities and teaching materials:

▪ **Totally adequate**	Yes
▪ **Adequate to some extent**	
▪ **Inadequate**	
▪ **List any inadequacies**	

5- Administrative constraints

List any difficulties encountered	None

6- Student evaluation of the course:

List any criticisms	**Response of course team**
Some topics in the subject are needed to be shifted to Manufacturing Technology I	**manufacturing technology (2)** has been adjusted according to the last year required modifications

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

8- Course enhancement:

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

9- Action plan for academic year 2013 – 2014

Actions required	**Completion date**	**Person responsible**
Course modification in coordination with manufacturing technology II	September 2013	Dr. M. Merdan Dr. A. Kohail

Course coordinator: Prof. Dr. M. Merdan
Signature: M. Merdan
Date: 6/11/2013

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
(2013-2014)

A- Basic Information

1- Title and code: B300: English Language (IV)
2- Program(s) on which this course is given: Manufacturing Eng. & Prod. Tech. BSc. Program.
3- Year/Level of program: 3rd year / 1st Semester
4- Unit hours Lectures [---] Tutorial [2 hrs] Total [2 hrs]
5- Names of lecturers contributing to the delivery of the course
Abdel-Hamid Mohammed El-Khoreby
Course coordinator: Abdel-Hamid Mohammed El-Khoreby
External evaluator: None

B- Statistical Information

No. of students attending the course: No. [129] [100%]
No. of students completing the course: No. [128] **99%**
Results:

	No.	%
Passed	127	99.22
Failed	1	0.78

Grading of successful students:

	No.	%
Excellent	53	41.41
Very Good	36	28.13
Good	20	15.63
Pass	18	14.06

C- Professional Information

1 – Course teaching

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

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

2- Teaching and learning methods:

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

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

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

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

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

Role of external evaluator Non

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

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

5- Administrative constraints

List any difficulties encountered

- Non

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

List any criticisms

Non Non

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

Non **Non**

8- Course enhancement:

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

9- Action plan for academic year 2014– 2015

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

Course coordinator: Abdel-Hamid Mohammed El-Khoreby
Signature:
Date: Nov.2014

Annual Course Report
(2013-2014)

A- Basic Information

1- Title and code: Math. V`, Complex Analysis, Partial Differential Equations, B311
2- Program(s) on which this course is given: Basic Science
3- Year/Level of program: 3rd year, 1st Term, Mech.
4- Unit hours Lectures 2 hrs Tutorial 2 hrs Practical hr Total 4 hrs
5- Names of lecturers contributing to the delivery of the course
Course coordinator Prof. Dr. Osama El Gyar
Prof. Dr. Aly Essawi
External evaluator: None

B- Statistical Information

No. of students attending the course: No. 129 100%
No. of students completing the course: No. 128 **99%**
Results:

	No.	%
Passed	119	93
Failed	9	7

Grading of successful students:

	No.	%
Excellent	11	8.6
Very Good	22	17.2
Good	27	21.1
Pass	59	46.1

C- Professional Information

1 – Course teaching

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

Topics taught as a percentage of the content specified:
>90 % √ **70-90 %** ☐ **<70%** ....
Reasons in detail for not teaching any topic

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

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board, projectors and data show
Practical training/ laboratory: None
Seminar/Workshop: None
Class activity: Numerical exercises; solution of problems
Case Study: Selected case studies
Other assignments/homework: Bi-weekly assignments
If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

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

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

Role of external evaluator None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered

- None

6- Student evaluation of the course:

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

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

8- Course enhancement:

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

9- Action plan for academic year 2014 – 2015

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

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

Signature:

Date: Nov. 2014

Annual Course Report

Academic year 2013-2014

A- Basic Information

1- Title and code: (E030) Electric and Electronic Circuits
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 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. 129 **%** 100
No. of students completing the course: No. 128 **%** 99

Results:

	No.	%
Passed	123	96
Failed	5	4

Grading of successful students:

	No.	%
Excellent	23	18
Very Good	31	24.2
Good	34	26.6
Pass	35	27.3

C- Professional Information

1 – Course teaching

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

Topics taught as a percentage of the content specified:

>90 % X **70-90 %** ☐ **<70%** ....

Reasons in detail for not teaching any topic Semiconductors were shortened

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

2- Teaching and learning methods:

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

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

Seminar/Workshop: Non

Class activity: Numerical exercises; solution of problems by computer and data show, using computer programs; MATLAB.

Case Study: Selected case studies

Other assignments/homework: Bi-weekly and weekly assignments

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

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	65.0 %
Oral examination	**----**
Practical/laboratory work	10 %
Other assignments/class work	10 %
Mid-Term Exam	5 %
Total	**90 %**
Members of examination committee	Prof. Dr. Ir. Mostafa S. Afifi
Role of external evaluator	Non

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered

- **Limitation of number of data show projectors in the principal building**
- **Limitation of number of operating experiments in the laboratory, due to scheduled one hour per week for the LAB.**

6- Student evaluation of the course:

List any criticisms	**Response of course team**
Less response from the Industrial Engineering Students to electronic courses.	The introduction of the course is directed to explanation of the importance of electronic engineering to mechanical applications. Also more applications are directed to mechanical facilities, such as the strain gauges, electronic ignition and power steering with modeling of mechanical system with electric circuits.

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

None

8- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment
1. Provide more data show projectors	in 2013	
2. Put more experiments in function in the lab.	2014	Try to increase the LAB hrs
Action State whether or not completed and give reasons for any non-completion		Non

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
1. Formation of new details of ELC316 Electro Engineering	July 2014	Prof. Dr. Ir. Mostafa Afifi

Course coordinator: Prof. Dr. Ir. Mostafa Afifi
Signature:
Head Telecomm. & Electronics: Prof. Dr. Mokhtar Abd El Halim
Date: 4/5/2014

Annual Course Report
2013-2014

A- Basic Information

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

B- Statistical Information

No. of students attending the course **No.** 129 **%** 100
No. of students completing the course: **No.** 130 **%** 101
Results:

	No.	%
Passed	121	93.75
Failed	9	6.25

Grading of successful students:		
	No.	**%**
Excellent	13	10
Very Good	22	16.9
Good	43	33.1
Pass	43	33.1

C- Professional Information

1 – Course teaching

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

Topics taught as a percentage of the content specified:
>90 % 100 **70-90 %** ☐ **<70%** ☐
Reasons in detail for not teaching any topic None
If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and computer supported learning
Practical training/ laboratory: Matlab & Pro Eng Packages in Lab
Seminar/Workshop:
Two Seminars were arranged by the students:
(a) MATLAB Applications
(b) Computer graphics (Pro/Engineer)
Class activity: Solid Modeling Graphics & MatLab Applications
Case Study: Selected case studies
Other assignments/homework: Bi-weekly assignments

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

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	66.7 %
Oral examination	**----**
Practical/laboratory work	13.3 %
Other assignments/class work	10 %
Mid-Term Exam	10 %
Total	**100 %**
Members of examination committee	Dr. Nabil Gadallah
Role of external evaluator	Non

4- Facilities and teaching materials:

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

5- Administrative constraints
List any difficulties encountered
None

6- Student evaluation of the course: **Response of course team**
None

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

8- Course enhancement:

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

9- Action plan for academic year 2014– 2015

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

Course coordinator: Prof. Dr Nabil Gadallah
Signature:
Date: 2/2014

Annual Course Report
2012-2013

A- Basic Information

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

B- Statistical Information

No. of students attending the course: **No.** 129 **%** 100
No. of students completing the course: **No. 129** **%95.83**
Results:

	No.	%
Passed	113	87.6
Failed	16	12.4

Grading of successful students:

	No.	
Excellent	4	3.1%
Very Good	19	14.7%
Good	33	25.6%
Pass	57	44.2%

C- Professional Information

1 – Course teaching

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

Topics taught as a percentage of the content specified:
>90 % .... **70-90 %** **80** **<70%** ....
Reasons in detail for not teaching any topic The term actually was 12 weeks, taking into consideration, the last three weeks are planned as practical exams and revisions.
If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:
Lectures: Classical lecturing using the white board and overhead projector learning
Practical training/ laboratory: Practical training and experimental measurements in Laboratory
Seminar/Workshop: None
Class activity: Numerical exercises; solution of problems by computer and data show, using computer programs; MATLAB, SIMULINK, and power point.
Case Study: Selected case studies
Other assignments/homework: Bi-weekly assignments

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

3- Student assessment:

Method of assessment	Percentage of total
Written examination	66.67 %
Oral examination	**----**
Practical/laboratory work	13.33 %
Other assignments/class work	13.33 %
Mid-Term Exam	6.67 %
Total	**100 %**

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

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	.....
Inadequate	.....

List any inadequacies None

5- Administrative constraints

List any difficulties encountered

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

6- Student evaluation of the course:

List any criticisms	Response of course team
None	

7- Comments from external evaluator(s): None

8- Course enhancement:

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

9- Action plan for academic year 2014– 2015

Actions required	Completion date	Person responsible
Non	Non	Non

Course coordinator: Prof. Dr Metwally H. Metwally
Signature:
Date: 2/2014

Annual Course Report (2013-2014)

A- Basic Information

1- Title and code: (M351) Mechanics of Machines
2- Program(s) on which this course is given: Manufacturing Eng. and production 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. Gaafar A. Hussein
Course coordinator Prof. Gaafar A. Hussein
External evaluator: None

B- Statistical Information

No. of students attending the course: No. 130 **%** 100
No. of students completing the course: No. 130 **%** 100
Results:

	No.	%
Passed	125	97.9
Failed	5	2.1

Grading of successful students:

	No.	%
Excellent	31	23.85
Very Good	30	23.08
Good	39	30
Pass	25	19.23

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	
• Complete balancing of different engine arrangements	16	
Total hours	**56**	

Topics taught as a percentage of the content specified:
>90 % 100 **70-90 %** **<70%** ....
Reasons in detail for not teaching any topic 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	Prof. Gaafar A. Hussein Prof.. 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 2014 – 2015

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

Course coordinator: Prof. Dr Gaafar A. Hussein
Signature:
Date: 30/12/2014

Annual Course Report
2013-2014

A- Basic Information

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

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

B- Statistical Information

No. of students attending the course: **No.** **129** **%** 100
No. of students completing the course: **No.** **128** **%** 99
Results: Mech.

	No.	%
Passed	120	93.75
Failed	8	6.25

Grading of successful students:

	No.	%
Excellent	19	14.85
Very Good	20	15.6
Good	43	33.6
Pass	38	29.7

C- Professional Information

1 – Course teaching

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

Topics taught as a percentage of the content specified:
>90 % 100 **70-90 %** ☐ **<70%** ….
Reasons in detail for not teaching any topic
If any topics were taught which are not specified, give reasons in detail: None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board
Practical training/ laboratory: Teaching aids and life components and assembly
Seminar/Workshop: None
Class activity:
Case Study: Selected case studies
Other assignments/homework: Two Reports
If teaching and learning methods were used other than those specified, list and give reasons:
None

3- Student assessment:

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

Members of examination committee Prof. Dr. Mamdouh Saber
Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	.....
Inadequate	.....

List any inadequacies None

5- Administrative constraints
List any difficulties encountered

- Limitation of number of data show in the principal building,
- Courses are shared between two buildings.

6- Student evaluation of the course:

List any criticisms	**Response of course team**
1. It is recommended to have exercise.	Limited by the super council of higher education hero

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

8- Course enhancement:

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

9- Action plan for academic year 2014 – 2015

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

Course coordinator: Prof. Dr. Mamdouh Saber
Signature:
Date: Sept.2014

Annual Course Report
2012-2013

A- Basic Information

1- Title and code: Manufacturing Technology I, M363
2- Program(s) on which this course is given: Production Engineering and manufacturing Technology
3- Year/Level of program: third year
4- Unit hours Lectures 3 hrs Tutorial 2 hrs Practical 1 Total 6 hrs
5- Names of lecturers contributing to the delivery of the course

	Dr. M. Merdan
Course coordinator	Dr. M. Merdan
External evaluator	Non

B- Statistical Information

No. of students attending the course: **No.** 129 **%** 100
No. of students completing the course: **No.** 129 **%** 100
Results:

	No.	%
Passed	111	86
Failed	18	14

Grading of successful students:

	No.	
Excellent	1	0.8%
Very Good	10	7.75%
Good	24	186%
Pass	76	58.9%

C- Information

1- Contents

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

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

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

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board
Practical training/ laboratory: Yes
Seminar/Workshop: Yes
Class activity: Solutions of problems
Case Study: None
Other assignments/homework: assignments report each month
If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	**60%**
Oral examination	**----**
Practical/laboratory work	**20%**
Other assignments/class work/	**5%**
Mid-Term Exam	**15%**
Total	**100 %**

Members of examination committee Dr. M. Merdan
Role of external evaluator Non

4- Facilities and teaching materials:

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

5- Administrative constraints
List any difficulties encountered
- none

6- Student evaluation of the course:

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

7- Comments from external evaluator(s): None

8- Course enhancement:

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

9- Action plan for academic year 2014 – 2015

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

Course coordinator: Dr. M. Merdan
Signature:
Date: 2/2014

Annual Course Report
Academic year 2013-2014

A- Basic Information

1- Course Code & Title: (E050) Electrical Power Technology
2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc Program
3- Year/Level of program: 3rd Year/Second Semester
4- Teaching hours

Lectures 3 hrs Tutorial 1 hrs Practica 1 hrs Total 5 hr

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

6- Course coordinator: Prof. Prof. Dr. Said A. Gawish
7- External evaluator: Non

B- Statistical Information

4- No. of students attending the course:	**No.**	**129**	**100**	**%**
5- No. of students completing the course:	**No.**	**127**	**98.5**	**%**

6- Results:

	No.	%
Passed	102	80.3
Failed	25	19.7

Grading of successful students:		
Grade	No.	%
Excellent	8	6.3
Very Good	14	11
Good	12	9.5
Pass	68	53.5

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Lecturer
➢ Circuit analysis of transformers	5	. Prof. Dr. Said A. Gawish
➢ Transformer construction	3	
➢ Equivalent circuit of a transformer	3	
➢ Transformer test	3	
➢ Construction of dc machines	3	
➢ Classification of dc machines	3	
➢ Circuit equations of dc machines	3	
➢ DC machine efficiency	3	
➢ Construction of induction motors	3	
➢ Torque-speed characteristics	4	
➢ Efficiency of induction motors	3	
➢ Circuit equations of synchronous machines	3	
➢ Construction of synch machines	3	
➢ Operation of synch machines	3	
Total hours	45	

Topics taught as a percentage of the content specified: >90 %
Reasons in detail for not teaching any topic: non

If any topics were taught which are not specified, give reasons in detail:Non
Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1-a6	b1-b6	c1-c4	d1-d4

2- Teaching and learning methods:

Lectures: Lecture, discussions, tutorials and problem solving
Practical training/ laboratory: Practical Training and experimental measurements in Lab
Seminar/Workshop: Non
Class activity Exercises; solution of problems and data show.
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	60
Oral examination	Non	0
Practical/laboratory work	20	20
Other assignments/class work	10	10
Mid-Term Exam	10	10
Total	100	100

Members of examination committee: Prof. Dr. Said A. Gawish.
Dr. Haytham Gamal.

Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

5- Administrative constraints (List any difficulties encountered)

- Non

6- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	it is recommended to solve more examples in the exercises	Only a balanced proportion of exercises are solved in the class, the rest are presented as assignments
(b)	The assignment are corrected without giving detailed comments concerning the correct answers	The correct results of problems solutions of problems will be presented during the exercises periods
(c)	It is recommended to announce the points of mid- term, rather than the grades.	The form and timing of declaration of year work evaluation results follow the Academy policy.

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	

8- Written Exam Evaluation

- High success percentage in the good level of the final written exam.
- The whole exam result shows considerable weakness in report writing and English language level.

9- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment
It is the last year for the course as we prepare to Credit Hours Course		

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
It is the last year for the course as we prepare to Credit Hours Course		Prof. Dr. Said A. Gawish. Dr. Haytham Gamal.

Course coordinator: Prof. Dr. Said A. Gawish.
Dr. Haytham Gamal.

Signature:

Date: September 2014

Annual Course Report
2013-2014

A- Basic Information

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

Dr. Atef Afifi
Course coordinator Dr. Atef Afifi
External evaluator None

B- Statistical Information

No. of students attending the course: **No.** 129 **%** 100
No. of students completing the course: **No.** 122 **%** 94.6
Results:

	No.	%
Passed	41	99.2
Failed	1	0.8

Grading of successful students:

	No.	%
Excellent	3	2.5
Very Good	17	14
Good	51	41.8
Pass	50	41

C- Professional Information

1 – Course teaching:

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

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

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

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board
Practical training/ laboratory: Yes
Seminar/Workshop: Yes
Class activity: Solutions of problems
Case Study: None
Other assignments/homework: assignments report each month

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

3- Student assessment:

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

Members of examination committee Dr. Atef Afifi
Role of external evaluator None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered
- none

6- Student evaluation of the course:

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

7- Comments from external evaluator(s): None

8- Course enhancement:

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

9- Action plan for academic year 2013 – 2014

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

Course coordinator: Dr Atef Afifi
Signature:
Date: November 2014

Annual Course Report
2013-2014

A- Basic Information

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

B- Statistical Information

No. of students attending the course: **No.** 129 **%** 100
No. of students completing the course: **No.** 128 **%** 99.2
Results:

	No.	%
Passed	122	95.3
Failed	6	4.7

Grading of successful students:

	No.	%
Excellent	48	37.5
Very Good	42	32.8
Good	20	15.6
Pass	12	9.4

C- Professional Information

1 – Course teaching

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

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

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board
Practical training/ laboratory: No
Seminar/Workshop: Non
Class activity: Numerical exercises;
Case Study: Selected case studies
Other assignments/homework: weekly assignments
If teaching and learning methods were used other than those specified, list and give reasons: Non

3- Student assessment:

Method of assessment	Percentage of total
Written examination	70%
Oral examination	----
Practical/laboratory work	----
Other assignments/class work/	10%
project report and presentation	10%
Mid-Term Exam	10%
Total	100 %
Members of examination committee	Dr. Ahmed Sarhan
Role of external evaluator	Non

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered

- None

6- Student evaluation of the course:

List any criticisms	Response of course team
None	None

7- Comments from external evaluator(s): **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 Non

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible

Course coordinator: Prof. Dr Ahmed Sarhan
Signature:
Date: 2/2014

Annual Course Report
2013-2014

A- Basic Information

1- Title and code: Measuring Instruments & Instrumentations, M352
2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
3- Year/Level of program: third year
4- Unit hours Lectures 2 hrs Tutorial 1 hrs Practical 1 hrs Total 4 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Ahmed Sarhan
Course coordinator Prof. Dr. Ahmed Sarhan
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 129 **%** 100
No. of students completing the course: **No.** 127 **%** 98.45

Results:

	No.	%
Passed	45	96
Failed	5	4.

Grading of successful students:

	No.	%
Excellent	34	26.8
Very Good	44	34.7
Good	34	26.8
Pass	10	7.9

C- Professional Information

1- Course teaching

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

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

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board
Practical training/ laboratory: yes
Seminar/Workshop: Non
Class activity: Numerical exercises;
Case Study: Selected case studies
Other assignments/homework: weekly assignments
If teaching and learning methods were used other than those specified, list and give reasons: Non

3- Student assessment:

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

Members of examination committee Dr. Ahmed Sarhan
Role of external evaluator Non

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered

- Non

6- Student evaluation of the course:

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

7- Comments from external evaluator(s):

8- Course enhancement:

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

9- Action plan for academic year 2014– 2015

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

Course coordinator: Prof. Dr Ahmed Sarhan
Signature:
Date: 15/7/2014

Annual Course Report
2013-2014

A- Basic Information

1- Title and code: Manufacturing Technology II, M364
2- Program(s) on which this course is given: Manufacturing Eng. And production Technology
3- Year/Level of program: 3rd year Manufacturing Technology / 2nd term
4- Unit hours Lectures: 3 hrs Tutorial: 1hrs Practical: 1hrs Total: 5 hrs
5- Names of lecturers contributing to the delivery of the course:

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

B- Statistical Information

No. of students attending the course: **129** 100 %
No. of students completing the course: **127** 98.5 %

Results:	No.	%
Passed	40	92.1
Failed	10	7.9

Grading of successful students:

	No.	%
Excellent	15	11.8
Very Good	26	20.5
Good	35	27.6
Pass	41	32.3

C- Professional Information

1. **Course teaching**

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

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

2- Teaching and learning methods:

- **Lectures:** Classical lecturing using the white board
- **Practical training/ laboratory:** Computer lab. with software
- **Seminar/Workshop:** None

- **Class activity**: Solution of Problems
- **Case Study:** None
- **Other assignments/homework:** Assignment report each 4 weeks

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

3- Student assessment:

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

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

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered	Software is not available

6- Student evaluation of the course:

List any criticisms	Response of course team
None	None

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

8- Course enhancement:

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

9- Action plan for academic year: 2014 – 2015

Actions required	Completion date	Person responsible
None		None

Course coordinator: Prof. Dr. A.M.Kohail
Signature:
Date: 1/9/2014.

Annual Course Report (2013/2014)

A- Basic Information

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

B- Statistical Information

No. of students attending the course: **No.** 129 **%** 100
No. of students completing the course: **No.** 127 **%** 98.5
Results:

	No.	%		Grading of successful students:		
Passed	120	94.5			**No.**	**%**
Failed	7	5.5		**Excellent**	13	10.24
				Very Good	30	23.6
				Good	37	29.1
				Pass	40	31.5

C- Professional Information

1 – Course teaching

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

Topics taught as a percentage of the content specified:
>90 % 100 **70-90 %** - **<70%** ….
Reasons in detail for not teaching any topic None
If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

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

Seminar/Workshop: None
Class activity: Numerical exercises; solution of problems by calculator or computer and data show, using computer programs.
Case Study: Selected case studies
Other assignments/homework: Bi-weekly assignments

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

3- Student assessment:

Method of assessment	Percentage of total
Written examination	60 %
Oral examination	15 %
Practical/laboratory work	----
Other assignments/class work	10 %
Mid-Term Exam	15 %
Total	100 %

Members of examination committee Prof. Dr. Serage Eldin Khalifa
Role of external evaluator None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

List any criticisms	Response of course team
None	

7- Comments from external evaluator(s): None

8- Course Enhancement:

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

9- Action plan for academic year 2014– 2015

Actions required	Completion date	Person responsible
None		

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

Annual Course Report
2012-2013

A- Basic Information

1- Title and code: (M399) Project I.
2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
3- Year/Level of program: Fifth Year Manufacturing Eng. & Prod. Tech,
4- Unit hours Lectures [---] Tutorial [---] Practical [2] Total [2 hrs] First Term
Lectures [---] Tutorial [---] Practical [4] Total [4 hrs] Second Term
5- Names of lecturers contributing to the delivery of the course
All the teaching Staff of the department
Course coordinator Dr. Abdelmagid A. Abdalla
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** [129] **%** [100]
No. of students completing the course: **No.** [129] **%** [100]
Results:

	No.	%
Passed	129	100
Failed	0	0

Grading of successful students:

	No.	%
Excellent	87	67.4
Very Good	27	20.9
Good	13	10.1
Pass	2	1.55

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Collection of technical data	According to the subject of the project	All the teaching staff of the department
Technical report		
Design and technological procedure		
Presentation of Problem		
Problem solving		
Realization of design		
Testing and inspection		
Writing of technical report		
Follow up of technical work		
Assembly of components		
Presentation of producer		
Evaluation of producer quality		
Total Hours	**60**	

Topics taught as a percentage of the content specified:
>90 % [100] **70-90 %** [---] **<70%** [....]
Reasons in detail for not teaching any topic
If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing, seminars, reports, & presentations
Practical training/ laboratory: Testing & calibration
Seminar/Workshop: 3 seminars in addition to final presentation
Class activity: brain storming, & discussions
Case Study:
Other assignments/homework: Weekly assignment

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

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	-----%
Oral examination	25%
Practical/laboratory work	25%
Other assignments/class work	50 %
Mid-Term Exam	---
Total	**100 %**

Members of examination committee All members of the
Role of external evaluator None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered **None**

6- Student evaluation of the course:

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

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

None

8- Course enhancement:

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

9- Action plan for academic year 2014– 2015

Actions required	**Completion date**	**Person responsible**
Students of each project should be in the same class	Sept. 2012	Chief of chair

Course coordinator: Dr. Abdelmagid A. Abdalla
Signature:
Date: October 2014

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 2014-2015)

A- Basic Information

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

B- Statistical Information

No. of students attending the course: No. 122 % 100
No. of students completing the course: No. 122 % 100
Results: Electr.

	No.	%
Passed	116	95.1
Failed	6	4.9

Grading of successful students:

	No.	%
Excellent	26	21.3
Very Good	29	23.8
Good	31	25.4
Pass	30	24.6

C- Professional Information

1 – Course teaching

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

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

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board, projectors and data show
Practical training/ laboratory: None
Seminar/Workshop: None
Class activity: Numerical exercises; solution of problems
Case Study: Selected case studies
Other assignments/homework: Bi-weekly assignments
If teaching and learning methods were used other than those specified, list and give reasons:
None

3- Student assessment:

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

Members of examination committee Prof. Dr. Osama El Gyar
Prof Dr. Aly M. Essawi
Role of external evaluator None

4- Facilities and teaching materials:

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

5- Administrative constraints
List any difficulties encountered
- None

6- Student evaluation of the course:

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

9- Action plan for academic year 2015– 2016

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

Course coordinator: Prof. Dr. Osama El Gyar
Prof. Dr. Aly M. Essawi
Signature:
Date: 1/9/2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information

1- Title and code: Production Management, M454
2- Program(s) on which this course is given: Manufacturing Eng. & production Technology
3- Year/Level of program: 4th year Manufacturing Technology / 2nd term
4- Unit hours *Lectures:* 3 hrs *Tutorial:* 1hrs *Practical:* 1hrs *Total:* 5 hrs
5- Names of lecturers contributing to the delivery of the course:

Prof. Dr. A.Sarhan
Course coordinator: Prof. Dr. A.Sarhan
External evaluator: None

B- Statistical Information

No. of students attending the course: 122 100%
No. of students completing the course: 122 100%
Results:

	No.	%
Passed	117	95.90
Failed	5	4.10

Grading of successful students:

	No.	%
Excellent	16	13.12
Very Good	32	26.23
Good	31	25.41
Pass	38	31.15

C- Professional Information

2. Course teaching

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

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

2- Teaching and learning methods:

- **Lectures:** Classical lecturing using the white board
- **Practical training/ laboratory:** Computer lab. with software

- **Seminar/Workshop:** None
- **Class activity**: Solution of Problems
- **Case Study:** None
- **Other assignments/homework:** Assignment report each 4 weeks

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

3- Student assessment:

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

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

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered	Software is not available

6- Student evaluation of the course:

List any criticisms	**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 2015 – 2016

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

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

Date: 1/10/2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information

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

B- Statistical Information

No. of students attending the course: **No.** 122 **%** 100
No. of students completing the course: **No.** 122 **%** 100

Results:	**No.**	**%**
Passed	119	97.6
Failed	3	2.4

Grading of successful students:

	No.	**%**
Excellent	29	23.8
Very Good	40	32.8
Good	26	21.3
Pass	24	19.7

C- Professional Information

1 – Course teaching

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

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

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

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and computer supported learning
Practical training/ laboratory: None
Seminar/Workshop: None
Class activity: Numerical exercises; solution of problems, demonstrations by data show, using computer programs; MATLAB, SIMULINK
Case Study: Selected case studies
Other assignments/homework: Weekly assignments
If teaching and learning methods were used other than those specified, list and give reasons:
None

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	66.7%
Oral examination	**----**
Practical/laboratory work	13.3 %
Other assignments/class work	6.7 %
Mid-Term Exam	13.3 %
Total	**100 %**

Members of examination committee Prof. Gaafar Ahmed Hussein
Prof. Abdelmagid Abdalla
Role of external evaluator None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered

- Limitation of number of data show in the principal building

6- Student evaluation of the course:

List any criticisms	**Response of course team**
Laboratory experiments are insufficient	This is due to the lack of vibration lab. This is replaced by simulation

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

8- Course enhancement:

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

9- Action plan for academic year 2015– 2016

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

Course coordinator: Prof. Dr Gaafar A. Hussein
Signature:
Date: 30/9/2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information

1- Title and code: Machine Design II, M471
2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
3- Year/Level of program: Fourth Year Manufacturing Engineering,1st Semester
4- Unit hours Lectures 3hrs Tutorial - Practical 4hrs Total 7 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Serage Eldin Khalifa

B- Statistical Information

No. of students attending the course: **No.** 122 **%** 100
No. of students completing the course: **No.** 122 **%** 100

Results:

	No.	%		Grading of successful students:		
Passed	110	90.2			No.	%
Failed	12	9.84		**Excellent**	14	11.5
				Very Good	22	18
				Good	31	25.4
				Pass	43	35.2

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours		Lecturer
	Lec	Tut	
• 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 2015– 2016

Actions required	Completion date	Person responsible
None		

Course coordinator: Prof. Dr Serage Eldin Khalifa

Signature:

Date: 21/9/2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information

1- Title and code: Manufacturing Technology III, M481
2- Program(s) on which this course is given: Manufacturing Eng. & Production Technology
3- Year/Level of program: 4th year Manufacturing / 1st term
4- Unit hours Lectures 4 hrs Tutorial 2 hrs Practical 2 hrs Total 8 hrs
5- Names of lecturers contributing to the delivery of the course:
Dr. M. Merdan
Dr. A. Afifi
Course coordinator: Dr. M. Merdan
External evaluator: None

B- Statistical Information

No. of students attending the course: 122
No. of students completing the course: 119
Results:

	No.	%
Passed	108	90.8
Failed	11	9.2

Grading of successful students:

	No.	%
Excellent	3	2.5
Very Good	16	13.4
Good	30	25.2
Pass	59	49.6

C- Professional Information

1 – Course teaching

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

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

2- Teaching and learning methods:

- **Lectures:** Classical lecturing using the white board
- **Practical training/ laboratory:** CNC Lab
- **Seminar/Workshop:** None

- **Class activity:** Assignments on design of molds and dies
- **Case Study:** None
- **Other assignments/homework:** Assignment report each 4 weeks

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

3- Student assessment:

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

Members of examination committee **Assist. Prof. I. Mousa**
Dr. Atef Afifii

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 2015 – 2016

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

Course coordinator: Dr. Atef Afifi
Signature
Date: 6/11/2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information

1- Title and code: Digital Signal Processing, E051
2- Program(s) on which this course is given: Manufacturing Engineering and Production Technology
3- Year/Level of program: Fourth Year Second Semester
4- Credit hours
Credit 3 hrs Lectures 3 hrs Tutorial 2 hrs Practical 1 hr
5- Course coordinator: Prof. Dr. Mostafa Afifi
6- External evaluator: Non

B- Statistical Information

No. of students attending the course:	No.	122	100	%
No. of students completing the course:	No.	119	97.5	%

Results:

	No.	%
Passed	117	98.3
Failed	2	1.7

Grading of successful students:		
Grade	No.	%
Excellent	15	12.6
Very Good	24	20.2
Good	38	31.9
Pass	40	33.6

C- Professional Information

1 – Course teaching

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

Topics taught as a percentage of the content specified: >90 % 85-90 % 90%
Reasons in detail for not teaching any topic: Non
If any topics were taught which are not specified, give reasons in detail: Non

Achieved program intended learning outcomes, ILO's:

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

2- Teaching and learning methods:

Lectures: Lecture, discussions, tutorials, problem solving and modeling
Practical training/ laboratory: Practical Training and experimental measurements in circuit Lab & LabVIEW
Seminar/Workshop:
Class activity: Numerical exercises; solution of problems by computer and data show, using computer packages; MATLAB, and LabVIEW.
Case Study: Selected case studies
Other assignments/homework: Bi-weekly assignments and reports
If teaching and learning methods were used other than those specified, give reasons: Non

3- Student assessment:

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

Members of examination committee: Prof. Dr. Mostafa AFIFI
Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

5- Administrative constraints (List any difficulties encountered)

- Non

6- Student evaluation of the course:

	List any criticisms	Response of course team
	None	

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	

8- Written Exam Evaluation

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

9- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment
(b) Add more experiments to Electronics Laboratory	December 2015	More is planned for May 2016

10- Action plan for academic year 2015– 2016

Actions required	Completion date	Person responsible
None		

Course coordinator: Prof. Dr Mostafa Afifi
Signature:
Date: September 24, 2015

Annual Course Report
(Academic Year 2013-2014)

A- Basic Information

1- Title and code: Summer Training, M400
2- Program(s) on which this course is given: Manufacturing Eng. and Production Technology
3- Year/Level of program: Fourth Year Second Semester
4- Unit hour's summer trainings during first, second, and third years (2 weeks each)
5- Names of lecturers contributing to the delivery of the course
Dr Bakkar Elsarnagawy
Course coordinator Dr Bakkar Elsarnagawy
External evaluator None

B- Statistical Information

No. of students attending the course: No. 122 **%** 100
No. of students completing the course: No. 122 **%** 100

Results:	**No.**	**%**
Passed	121	99.2
Failed	1	0.8

Grading of successful students:

	No.	**%**
Excellent	103	84.4
Very Good	8	6.6
Good	5	4.1
Pass	5	4.1

C- Professional Information

1 – Course teaching

Topic Actually taught	**No. of hours**			**Lecturer**
	L	T	**P**	
Summer training after final written exam of first year (2weeks/5 days per week/6 hours per day)			60	Head of the dept.
Summer training after final written exam of second year (2weeks/5 days per week/6 hours per day)			60	
Summer training after final written exam of third year (2weeks/5 days per week/6 hours per day)			60	
Evaluation by summer training committee of the dept.				
Total hours			**180**	

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	
Oral examination	50 %
Practical training & delivering a report	50 %
Other assignments/class work	
Mid-Term Exam	
Total	100 %

Members of examination committee: Annually Assigned committee.

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
There is no training courses in the academy for students in program (2000)	This is managed according to the regulations of their program (2000)
Summer training is not their study	Evaluated training fields agreed with the student study
Training courses of te academy are too expensive	The academy helps student to find out training courses with the lowest cost

7- Comments from external evaluator(s): None

8- Course enhancement:

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

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

9- Action plan for academic year 2015– 2016

Actions required	Completion date	Person responsible
1. None		

Course coordinator: Dr. Abdelmagid A Abdalla

Signature:

Date: 10/10/2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information

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

B- Statistical Information

No. of students attending the course: No. 122 **%** 100
No. of students completing the course: No. 117 **%** 95.9
Results:

	No.	%
Passed	116	99.15
Failed	1	0.85

Grading of successful students:

	No.	%
Excellent	35	29.9
Very Good	37	31.62
Good	29	24.79
Pass	15	12.82

C- Professional Information

1 – COURSE TEACHING

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

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

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

2- TEACHING AND LEARNING METHODS:

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

Practical training/ laboratory: Some samples of composite materials were prepared and tested in material lab.

Seminar/Workshop: None

Class activity: Preparing and testing of composite material samples

Case Study: None

Other assignments/homework: Bi-weekly assignments

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

3- STUDENT ASSESSMENT:

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

Members of examination committee Dr. Bakr M. Rabieh

Role of external evaluator None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered

6- Student evaluation of the course

Response of course team

List any criticisms

7- Comments from external evaluator(s)

Response of course team

Non

8- Course enhancement

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

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

9- Action plan for academic year 2015 – 2016

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

Course coordinator: Dr. Bakr M. Rabieh

Signature:

Date: 1/1/2015

Annual Course Report
Academic year 2014-2015

A- Basic Information

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

B- Statistical Information

No. of students attending the course: No. 122 **%** 100
No. of students completing the course: No. 118 **%** 96.7

Results:	**No.**	**%**
Passed	105	89
Failed	13	11

Grading of successful students:

	No.	**%**
Excellent	2	1.7
Very Good	20	16.9
Good	24	20.3
Pass	59	50

C- Professional Information

1 – COURSE TEACHING

Topic Actually taught	No. of hours	Lecturer
CHAPTER 1: An Overview of Computer-Aided Design & Analysis	7	Prof. Dr. Abdel-Nasser Zayed
C H A PTE R 2 : Review of Numerical Techniques for CAD	14	
C H A PTE R 3 : Principles of Computer Graphics	14	
C H A P T E R 4: Computer Graphics and Design	14	
C H A P T E R 5: Introduction to Design Databases	7	
C H A P T E R 6 : Overview of the Finite Element Method	14	
C H A P T E R 7: Elastic Stress Analysis by the Finite Element Method	21	
C H A P T E R 8 : Design Optimization	14	
Total	90	

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

If any topics were taught which are not specified, give reasons in detail None, 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 2015 – 2016

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

Course coordinator: Prof. Dr. Nabil Gadallah

Signature:

Date: 21/9/2015

Annual Course Report
Academic year 2014-2015

A- Basic Information

1- Title and code: (M474) Machine Tool Design
2- Program(s) on which this course is given: Production Engineering and manufacturing Technology
3- Year/Level of program: 4th. Year
4- Unit hours: Lectures 4hrs Tutorial 2hrs Practical Total 6 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Ahmed Elsanabary
Course coordinator Prof. Dr. Ahmed Elsanabary
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 122 **%** 100
No. of students completing the course: **No.** 117 **%** 96
Results:

	No.	%		Grading of successful students:		
Passed	104	88.9			**No.**	**%**
Failed	13	11.1		**Excellent**	14	12
				Very Good	18	15.4
				Good	19	16.2
				Pass	53	45.3

C- Professional Information

1 – Course teaching

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

Topics taught as a percentage of the content specified:
>90 % 100 **70-90 %** **<70%** ....
Reasons in detail for not teaching any topic None
If any topics were taught which are not specified, give reasons in detail None, all of the missed teaching hours were substituted, in addition to the seminars arranged during the students free day.

2- Teaching and learning methods:
Lectures: Classical lecturing using the white board and computer supported learning
Practical training/ laboratory: -
Seminar/Workshop:

Two Seminars were arranged by the students:
(a) Regulation of Speed & Feed Rates
(b) Design of Spindle & Power Screws

Class activity: -
Case Study: Selected case studies
Other assignments/homework: Bi-weekly assignments
If teaching and learning methods were used other than those specified, list and give reasons:
None

3- Student assessment:

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

Members of examination committee Dr. Nabil Gadallah
Role of external evaluator None

4- Facilities and teaching materials:

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

5- Administrative constraints
List any difficulties encountered

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

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

8- Course enhancement:
Progress on actions identified in the previous year's action plan: No previous comments
Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2015– 2016

Actions required	Completion date	Person responsible
None	None	None

Course coordinator: Prof. Dr. Ahmed El Sanabary
Signature:
Date: 3/08/2015

Annual Course Report
Academic year 2014-2015

A- Basic Information

1- Course Code & Title: (M482) Automatic Control
2- Program(s) on which this course is given: Manufacturing Engineering and Prod. Techn. BSc Program
3- Year/Level of program: Fourth Year/Second Semester
4- Credit hours

Total 7 hrs Lectures 3hrs Tutorial 2 hrs Practical 2 hr

5- Names of lecturers contributing to the delivery of the course: Prof. Dr. M Galal Rabie
Dr Metwally Hussein

6- Course coordinator: Prof. Dr. M Galal Rabie
7- External evaluator: Non

B- Statistical Information

7- No. of students attending the course:	**No.**	122	100	**%**
8- No. of students completing the course:	**No.**	117	95.9	**%**

9- Results:

	No.	%
Passed	106	90.6
Failed	11	9.4

Grading of successful students:		
Grade	No.	%
Excellent	12	11.32
Very Good	19	17.93
Good	21	19.81
Pass	54	50.94

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecturer
	Plan.	Actual	
• Introduction, basic definitions and terminology	2	2	Prof. Dr. M Galal Rabie Dr Metwally Hussein
• Mathematical topics	8	8	
• Transfer functions, definition and case studies	10	10	
• Block diagrams; conventions, block diagram algebra and reduction of block diagrams.	4	4	
• 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	10	
➢ System identification based of the transient response.	4	4	
○ Instruments, sensors and controllers	10	10	
○ Level control	4	4	
○ Flow control	4	4	
○ Speed control	4	4	
○ Temperature control	4	4	
○ Robotic arm control	4	4	
• Frequency response			
➢ Frequency response; Polar plot and Bode plots.	6	6	

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

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 a10	b1 to b5	c1 to c5	d1 to d3

2- Teaching and learning methods:
Lecture, presentations, discussions, tutorials, problem solving, self-learning, modeling and Laboratory Experiments
If teaching and learning methods were used other than those specified, give reasons: Non

3- Student assessment:

Method of assessment	Points	%
Written examination	100	66.7
Oral examination	Non	0
Practical/laboratory work	20	13.3
Other assignments/class work	15	10
Mid-Term Exam	15	10
Total	150	100

Members of examination committee: Dr. M. Galal RABIE and Dr. Metwally Hussein
Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	
Adequate to some extent	Yes
Inadequate	

List any inadequacies: Incomplete laboratory equipment

5- Administrative constraints (List any difficulties encountered)
- ➢ Non

6- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	Discussion of exercises should be extended to the fundamentals of mathematics.	A full revision of previously taught mathematical topics is included in the course content and occupies 8 exercise hours.
(b)	The laboratory book is not useful	A new book will be prepared considering the newly added experiments as results from the merge process
(c)	The laboratory equipment is poor and the number of operating experiments is too few	The laboratories of mechanical and electrical engineering departments will be merged on February 2016. More experiments will be available
(d)	Bad communication between the students and laboratory assistants	The laboratory work will be put under close supervision pr Professor M Galal Rabie

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	

7- Written Exam Evaluation

- The written exam covers 60% of the course ILO's in a balanced form.
- The level and degree of interest of student this year are very Law
- The exam considers the course aims listed in the course specification.
- The exam level is convenient, considering the percentage of success.
- Elevated success in the first three questions indicate good understanding of the fundamentals and applications of mathematics.
- Decreased success in the last questions indicates the need to more attention to the professional applied skills. Therefore a mini project will be added to the exercises starting from the next academic year
- Low level of English language is quite clear in the written exam papers.

9- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment
(c) Non		

9- Action plan for academic year 2015 – 2016

Actions required	Completion date	Person responsible
1. Merging the laboratories of mechanical and electrical engineering departments	The laboratories of mechanical and electrical engineering departments will be merged on February 2016.	Departments heads
2. Preparing a new laboratory book	To be determined in agreement with the Electronic engineering and communication Technology Dpt.	Prof. M Galal Rabie
3. Adding mini project on the design of PID controller	September 2015	Prof. M Galal Rabie
4. Supervising the laboratory exercises by Prof. M Galal Rabie	December 2015	Mechanical Engineering department head

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

5th year Manufacturing Eng. & Production Tech.

NO.	Code	Course
1	M552	Operations Research
2	M561	Engineering Economy
3	M571	Computer Aided Manufacturing (CAM)
4	M573	Automation
5	M578	Hydraulic Power Systems
6	M580c	Elective I (Production Planning & Control)
7	M598	Report
8	B512	Laws and Regulations for Engineers
9	B572	Pollution and Society
10	M576	Computer Integrated Manufacturing (CIM)
11	M574	Quality Control
12	M580a	Elective II (Modeling & Simulation)
13	M581	Advanced Manufacturing Processes
14	M599	Project 2

Annual Course Report

2015/2016

A- Basic Information

1- Title and code: ***M552: Operations Research***
2- Program(s) on which this course is given: Manufacture
3- Year/Level of program: 5th year Manufacturing Technology / 1st term
4- Unit hours Lectures 2 hrs Tutorial 2hrs Practical 0 hrs Total 4hrs
5- Names of lecturers contributing to the delivery of the course:
Course coordinator: Dr Mohamed Saad Abdelkarim
External evaluator: None

B- Statistical Information

No. of students attending the course: 122 100%
No. of students completing the course: 122 100%

Results:

	No.	%
Passed	118	96.72
Failed	4	3.28

Grading of successful students:

	No.	%
Excellent	39	31.97
Very Good	40	32.79
Good	25	20.49
Pass	14	11.48

C- Professional Information

1 – Course teaching

Contents

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction; Origins of Operations Research (OR), Nature and Phases of OR, and Impact of OR.	2	-	-
2. Linear Programming (LP) – Graphical Solution; LP models, Common characteristics, Model formulation with single and double subscript variables. Graphical Solution of 2 variables LP problems;	6	4	-
3. Solution of LP Problems Using Simplex Method; General form of the LP model, Possible Initial Basic Solution, Better basic solution. Other forms of the LP model; Objective function in the Minimization form – Big M Methodology, Maximize the quantity of products produced, Full utilization of all departments' production capacity in the plant.	8	8	-
4. Assignment problem; Hungarian method. Problems with assignment problems	4	4	-
5. Transportation problem; Mathematical model of the problem; Graphical Solution of the transportation problem, Algebraic Solution of Balanced Transportation Problem; Problem formulation, Initial solution: North-West Corner Method, Index Method, and Vogal's Approximation Method. Optimum Solution; Steppingstone Method, and Modified Distribution Index Method (MODI). Remarks on the transportation problems; Degenerate solution, Unbalanced Transportation Problem, and Objective function in the form of Maximization instead of Minimization	8	-	-

6. Transportation problem; Mathematical model of the problem; Graphical Solution of the transportation problem, Algebraic Solution of Balanced Transportation Problem; Problem formulation, Initial solution: North-West Corner Method, Index Method, and Vogal's Approximation Method. Optimum Solution; Steppingstone Method, and Modified Distribution Index Method (MODI). Remarks on the transportation problems; Degenerate solution, Unbalanced Transportation Problem, and Objective function in the form of Maximization instead of Minimization	-	8	-
7. Network Scheduling; Importance and network scheduling, Construction of a CPS Network, use of CPM to solve project management problems; Network construction, ESs determination by solving the network from R to L. LSs determination by solving the network from R to L. determination of the project completion time, and boundary times calculation and determination of the slacks of the non-critical activities.	2	4	-
8. General revision for final Exams	-	2	-
Total	30	30	

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

3- 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

4- 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
Dr Mohamed Saad Abdelkarim

Role of external evaluator None

5- Facilities and teaching materials:

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

6- Administrative constraints

List any difficulties encountered None

7- Student evaluation of the course:

List any criticisms	Response of course team
None	None

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

9- Course enhancement:

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

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

10- Action plan for academic year 2016 – 2017

Actions required	Completion date	Person responsible
None	None	None

Course coordinator: Dr Mohamed Saad Abdelkarim
Signature: Dr Mohamed Saad Abdelkarim
Date: 6/3/2016

Annual Course Report
2015/2016

A- Basic Information

1- Title and code: (M561) Engineering Economics
2- Program(s) on which this course is given:

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

3- Year/Level of program: Fifth Year
4- Unit hours Lectures 2 hrs Tutorial 2 hrs Practical - Total 4 hrs
5- Names of lecturers contributing to the delivery of the course
Dr Abdelmagid A. Abdalla
Dr. Metwally H. Metwally
Course coordinator Dr. Abdelmagid A. Abdalla
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 122 100%
No. of students completing the course: **No.** 122 100%
Results:

	No.	%
Passed	113	92.62
Failed	9	7.38

Grading of successful students:

	No.	%
Excellent	39	31.97
Very Good	30	24.59
Good	24	19.67
Pass	20	16.39

C- Professional Information

1 – Course teaching

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

Topics taught as a percentage of the content specified:
>90 % --- **70-90 %** **80** **<70%** ….
Reasons in detail for not teaching any topic The term actually was 13 weeks
If any topics were taught which are not specified, give reasons in detail: None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board
Practical training/ laboratory: None
Seminar/Workshop: None

Class activity: Numerical exercises.
Case Study: None
Other assignments/homework: Weekly assignment
If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

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

Members of examination committee: Dr. Abdelmagid A. Abdalla, Dr. Metwally H. Metwally
Role of external evaluator None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

List any critisms	Response of course team
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 2016– 2017

Actions required	Completion date	Person responsible

Course coordinator: Dr. Abdelmagid A. Abdalla
Signature:
Date: 1/4/2016

Annual Course Report
2015/2016

A- Basic Information

1- Title and code: M571: Computer Aided manufacturing (CAM)
2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc. Prog
3- Year/Level of program: 5th Year
4- Unit hours Lectures 3 hrs Tutorial 1 hrs Practical 2 hr Total 6 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Atef Afifi
Course coordinator Prof. Dr. Atef Afifi
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 122 **%** 100
No. of students completing the course: **No.** 122 **%** 100

Results:

	No.	%
Passed	50	89.34
Failed	13	10.66

Grading of successful students:

	No.	%
Excellent	11	9
Very Good	23	18.85
Good	24	19.67
Pass	51	41.8

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
Fundamentals of CAM	3		
Part programming using tool compensation (length and radius)	4	1	2
Canned cycles of CNC milling	6	2	4
Canned cycles of CNC turning	6	2	4
Subprogram techniques for CNC part programming	5	2	4
Introduction to computer Aided Part Programming	3	1	2
Computer Aided Part Programming of Milled parts	6	2	4
Computer Aided Part Programming of Turned parts	6	2	4
Computer Aided Process Planning	6	3	6
Total hours	**45**	**15**	**30**

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

2- Teaching and learning methods:
Lectures: Classical lecturing using the white board and computer supported learning
Practical training/ laboratory: Practical training and experimental measurements in Lab
Seminar/Workshop: Non

Class activity: Numerical exercises; solution of problems by computer and data show, using computer programs; MATLAB, SIMULINK and CODAS.

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments

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

3- Student assessment:

Method of assessment	Percentage of total
Oral examination	**----**
Final examination	66.7 %
Practical	13.3 %
Other assignments/class work	10%
Mid-Term Exam	10%
Total	**100%**
Members of examination committee	Prof. Dr. Atef Afifi
Role of external evaluator	Non

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered
None

6- Student evaluation of the course: **Response of course team**
List any criticisms
None

7- Comments from external evaluator(s): None

8- Course enhancement:

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

9- Action plan for academic year 2016– 2017

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

Course coordinator: Prof. Dr. Atef Afifi
Signature:
Date: 25/4/2016

Annual Course Report
For Academic year 2015/2016

A- Basic Information

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

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

B- Statistical Information

No. of students attending the course: **122** **100%**
No. of students completing the course: **122** **100%**
Results:

	No.	%
Passed	114	93.44
Failed	8	6.56

Grading of successful students:

	No.	%
Excellent	26	21.3
Very Good	36	29.5
Good	24	19.67
Pass	28	22.95

C- Professional Information

1- Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer
• Automation economics	4			Prof. A.Kohail
• Analysis of automated lines	10	4	-	
• Line balancing	2	4	-	
• Assembly lines	6	2	-	
• CNC and robot applications	4	4	2	
• Group technology	6	4	-	
• FMS and prod. Cells	4	2	-	
• Linear feed-back control systems	2	2	1	
• PLC applications	6	4	4	
• Sensors types and applications in prod.lines	6	2	2	
• Sequential control applications	6	2	3	
• Applications for automatic filling systems	4	-	3	
• **Total hours**	60	30	15	

- **Topics taught as a percentage of the content specified:**
  >90 % 95 **70-90 %** ☐ **<70%** ….
- **Reasons in detail for not teaching any topic: - reduced hours due to extra vacations**

2- Teaching and learning methods:

- **Lectures:** Classical lecturing using the white board
- **Practical training/ laboratory:** Computer lab. with software
- **Seminar/Workshop:** None
- **Class activity**: Solution of Problems
- **Case Study:** None
- **Other assignments/homework:** Assignment report each 4 weeks

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

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	100
Oral examination	
Practical/laboratory work	**20**
Other assignments/class work	10
Mid-Term Exam	20
Total	**150**
Members of examination committee	Prof. Dr. A.M.Kohail
Role of external evaluator	None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered	None

6- Student evaluation of the course:

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

7- Comments from external evaluator(s):	**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 2016– 2017

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

Course coordinator: Prof. Dr. A.M.Kohail
Signature:
Date: 1/4/2016

Annual Course Report
Academic year 2015-2016

A- Basic Information

1- Course Code & Title: (M578) Hydraulic Power Systems
2- Program(s) on which this course is given: Manufacturing Eng. and Production and Tech. BSc Program
3- Year/Level of program: Fourth Year/Second Semester
4- Teaching hours
Total 7hrs Lectures 3 hrs Tutorial 2 hrs Practical 2 hr
5- Names of lecturers contributing to the delivery of the course: Prof. Dr. M Galal Rabie
6- Course coordinator: Prof. Dr. M Galal Rabie
7- External evaluator: Non

B- Statistical Information

10- No. of students attending the course:	**No.**	**122**	**100**	**%**
11- No. of students completing the course:	**No.**	**117**	**95.6%**	**%**

12- Results:

	No.	%
Passed	113	96.5
Failed	4	3.5

Grading of successful students:		
Grade	No.	%
Excellent	20	17.7
Very Good	27	23.9
Good	22	19.4
Pass	44	39

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecture
	Plan.	Actual	
➢ Power systems, classification, operation, and comparison.	4	The effective teaching weeks during this semester were 13 with total of 91 hours. obligatory. The reduced teaching hours were compensated by additional lecturing hours.	Prof. Dr. M Galal Rabie
➢ Introduction to hydraulic power systems and standard symbols	10		
➢ Hydraulic fluids; properties and their effect on the system performance.	4		
➢ Hydraulic transmission lines and connectors	10		
➢ Hydraulic pumps:	4		
• Classification and basic mathematical relations	4		
• Gear pumps, vane pumps and piston pumps	4		
• Fixed and variable displacement pumps and pump control	4		
➢ Control valves	4		
• Classification and basic design			
• Pressure control valves (direct/pilot operated); relief valves, pressure reducers, sequence valves and accumulator charging valves	6		
• Directional control valves	4		
• Flow control valves	4		
• Check valves	5		
➢ Hydraulic actuators; cylinders, motors and rotary actuators	2		
➢ Accessories; accumulators, filters, reservoirs, pressure switches,,…etc.	4		
➢ Small project; design and analysis of the hydraulic system for an industrial application. Analysis of the possible operational problems...	6		
Total hours	105	84	

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

- Achieved program intended learning outcomes, ILO's: Actually, all of the intended learning outcomes were achieved. The 13% obligatory cut of the net teaching hours was compensated by additional lecturing hours and seminars.

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a6	b1 to b3	c1 to c5	d1 to d4

2- Teaching and learning methods:

lecture, presentations & movies, discussions & seminars, tutorials, problem solving and self-learning, modeling

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

Seminar/Workshop:

- Two seminars were prepared by 8 students
- 13 technical reports were prepared by 13 students

The seminars and reports are not obligatory and evaluated by 10 bonus points maximum for each student.

3- Student assessment:

Tools	To measure the content of	Time schedule	Grading	%
Mid-Term Exam	a1 to a6, b1 to b3 and c1 to c4	sixth week	15	10
Term papers, quizzes and seminars	a1 to a5, b1 to b3, c1, c2 and c4 and d1 to d4	Bi-weekly	15	10
Practical exams	a3, c1 and c5	Fifteenth week	20	13.3
Written exam	a1 to a6, b1 to b3 and c1 to c4 and d2	16th week	100	66.7
		Total	150	100

Members of examination committee: Dr. M. Galal RABIE and Dr. Abdelmagid Abdellatif
Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

5- Administrative constraints (List any difficulties encountered)

- Non

6. Comment on the Examination results and feedback

- The exam paper header agrees with the MAM standard form
- The exam paper measures 73% of course ILO's measurable in written form and the variety of questions is practically balanced.
- The exam considers the course aims listed in the course specification.
- The exam level is practically convenient, considering the percentage of success.
- Low success percentage in questions 3 and 4 may be attributed to low attendance during the second half of semester. Moreover, it implies the need to develop new plans to encourage the students, or oblige them, to attend the late term activities.
- The exam result shows considerable weakness in hand sketching and report writing and English language level.
- The exam showed acceptable level in manipulation with numbers. However, a non-negligible percentage of students suffer from poor comprehension of SI units and numbers evaluation.

7- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	Non	

8- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	

9- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment
Non		

10- Action plan for academic year 2016 – 2017

Actions required	Completion date	Person responsible

Course coordinator: Prof. Dr M Galal Rabie
Signature:
Date: August 12, 2016

Annual Course Report
2015/ 2016

A- Basic Information

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

B- Statistical Information

No. of students attending the course: **122** **100%**
No. of students completing the course: **122** **100%**
Results:

	No.	%
Passed	119	97.54
Failed	3	2.46

Grading of successful students:

	No.	%
Excellent	32	26.23
Very Good	40	32.79
Good	22	18.0
Pass	25	20.49

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer
Functions within business organizations, management processes, productivity, competitiveness, and strategy	2	2		Prof. Dr. M. Merdan
Forecasting techniques, seasonality, accuracy, and control	4	4		
Aggregate planning, and materials requirement plan (MRP),	4	4		
Assignment and manufacture scheduling techniques,	4	4		
Work systems design,	4	4		
Choice of site location, facilities selection and layout techniques.	4	4		
Quality definitions and control techniques,	4	4		
Inventory management principles and controlling models,	4			
Total	30	30		

- **Topics taught as a percentage of the content specified:**
  >90 % **70-90 %** **80%** **<70%**
- **Reasons in detail for not teaching any topic** None.
- **If any topics were taught which are not specified, give reasons in detail** **None**

2- Teaching and learning methods:

- **Lectures:** Classical lecturing using the white board
- **Practical training/ laboratory:** None
- **Seminar/Workshop:**
- **Class activity:** Solving managerial problems that might face operations managers in planning and control business organizations.
- **Case Study:** view case studies were been used
- **Other assignments/homework:** solution of managerial problems were been assigned and given as home works

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

3- Student assessment:

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

Members of examination committee Dr Mohamed Saad Abdelkarim
Role of external evaluator None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered
Improper timing of teaching operations research (OR) course. OR course is a prerequisite to this course and should be taught by a qualified mathematician before teaching this course. This difficulty will be considered in the credit hour system.

6- Student evaluation of the course:

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

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

8- Course enhancement:

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

9- Action plan for academic year 2016 – 2017

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

Course coordinator: Dr Mohamed Saad Abdelkarim
Signature: Dr Mohamed Saad Abdelkarim
Date: 6/3/2016

Annual Course Report
2015/2016

A- Basic Information

1- Title and code: (M598) Reports
2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc. Prog.
3- Year/Level of program: Fifth Year Man. Eng. & Prod. Technology.
4- Unit hours Lectures 2 hrs Total 2 hrs
5- Names of lecturers contributing to the delivery of the course
Dr. Neveen
Course coordinator Dr. Neveen
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 122 **%** 100
No. of students completing the course: **No.** 122 **%** 100

Results:

	No.	%
Passed	119	97.54
Failed	3	2.46

Grading of successful students:

	No.	%
Excellent	67	54.9
Very Good	35	28.7
Good	6	4.9
Pass	11	9

C- Professional Information

1 – Course teaching

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

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

Reasons in detail for not teaching any topic. The term actually was 12 weeks as during the last three weeks practical exams and revisions were carried out.
If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:
Lectures: Classical lecturing using the white board
Practical training/ laboratory:
Seminar/Workshop: None
Class activity:
Case Study: None

Other assignments/homework: Writing a report and a resume
If teaching and learning methods were used other than those specified, list and give reasons:
None

3- Student assessment:

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

Members of examination committee Dr. Neveen
Role of external evaluator None

4- Facilities and teaching materials:

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

5- Administrative constraints
List any difficulties encountered
None

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

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 2016 – 2017

Actions required	Completion date	Person responsible
None		

Course coordinator: Dr. Neveen
Signature:
Date: 1/4/2016

Annual Course Report
(Academic Year 2015-2016)

A- Basic Information

1- Title and code: Laws and Regulations For Engineers, B 512
2- Program(s) on which this course is given: Manufacturing Engineering and Production Technology.
3- Year/Level of program:5th year, 2nd Term
4- Unit hours Lectures 3 hrs Tutorial - Practical - Total 3 hrs
5- Names of lecturers contributing to the delivery of the course
Course coordinator Dr. Ghada salem
External evaluator:- Non

A- Statistical Information

No. of students attending the course: **No.** **122** **%** 100
No. of students completing the course: **No.** **122** **%** 100
Results:

	No.	%
Passed	119	97.54
Failed	3	2.46

Grading of successful students:

	No.	%
Excellent	17	13.93
Very Good	54	44.26
Good	40	32.78
Pass	8	6.55

C- Professional Information

1 – Course teaching

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

Topics taught as a percentage of the content specified:
>90 % √ **70-90 %** - **<70%** -
Reasons in detail for not teaching any topic: Non

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board, projectors and data show
Practical training/ laboratory: Non
Seminar/Workshop: Non
Class activity: Some Assignments
Case Study: Selected case studies
Other assignments/homework: Bi-weekly assignments
If teaching and learning methods were used other than those specified, list and give reasons: Non

3- Student assessment:

Method of assessment	Percentage of total
Written examination	70 %
Oral examination	-
Practical/laboratory work	- %
Other assignments/class work	10 %
Mid-Term Exam	20 %
Total	100 %
Members of examination committee	. Dr. Ghada salem
Role of external evaluator	Non

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered

- Non

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

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

8- Course enhancement:

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

9- Action plan for academic year 2016– 2017

Actions required	Completion date	Person responsible
Non		Non

Course coordinator: Dr. Ghada Salem
Signature:
Date: August .2016

Annual Course Report
2015/2016

A- Basic Information

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

B- Statistical Information

No. of students attending the course: **No.** **122** **%** 100
No. of students completing the course: **No.** **122** **%** 100
Results:

Passed	119	97.54%
Failed	3	2.46%

Grading of successful students:

	No	**%**
Excellent	30	24.59
Very Good	38	31.14
Good	42	34.43
Pass	9	7.38

C- Professional Information

1 – Course teaching

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

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

2- Teaching and learning methods:

Lectures:
Practical training/ laboratory:
Seminar/Workshop: Non
Class activity:
Case Study: Selected case studies
Other assignments/homework: Bi-weekly assignments
If teaching and learning methods were used other than those specified, list and give reasons:
Non

3- Student assessment:

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

Members of examination committee Dr. S.Gouda
Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate	Yes.
Adequate to some extent	……
Inadequate	……

List any inadequacies Non

5- Administrative constraints

List any difficulties encountered

- Limitation of number of data show in the principal building

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

List any criticisms

7- Comments from external evaluator(s): None

8- Course enhancement:

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

9- Action plan for academic year 2016 – 2017

Actions required	Completion date	Person responsible

Course coordinator: Prof. S.Gouda
Signature:
Date: August 2016

Annual Course Report
2015/2016

A- Basic Information

1- Title and code: M576: Computer Integrated Manufacturing
2- Program(s) on which this course is given: Production Engineering and manufacturing Technology
3- Year/Level of program: 5th Year
4- Unit hours Lectures 3 hrs Tutorial 2 hrs Practical 2 hr Total 7 hrs
5- Names of lecturers contributing to the delivery of the course
Prof. Dr. Atef Afifi
Course coordinator Prof. Dr. Atef Afifi
External evaluator

B- Statistical Information

No. of students attending the course: **No.** 122 100%
No. of students completing the course: **No.** 122 92.45%
Results:

	No.	%
Passed	115	94.26
Failed	7	5.74

Grading of successful students:

	No.	%
Excellent	34	27.87
Very Good	28	22.95
Good	24	19.67
Pass	29	23.77

C- Professional Information

1 – Course teaching

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

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

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and computer supported learning
Practical training/ laboratory: Practical training and experimental measurements in Lab
Seminar/Workshop: Non

Class activity: Numerical exercises; solution of problems by computer and data show, using computer programs; MATLAB, SIMULINK and CODAS.

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments

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

3- Student assessment:

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

Members of examination committee Prof. Dr. Atef Afifi

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	.....
Inadequate	.....

List any inadequacies Non

5- Administrative constraints

List any difficulties encountered

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

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

List any criticisms None

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

None

8- Course enhancement:

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

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

9- Action plan for academic year 2016– 2017

Actions required	Completion date	Person responsible
None		

Course coordinator: Prof. Dr. Atef Afifi

Signature:

Date: 25/7/2016

Annual Course Report
For Academic year 2015/2016

A- Basic Information

1- Title and code: Quality Control: M574
2- Program(s) on which this course is given: Manufacturing Eng. And production Technology
3- Year/Level of program: 5th year Manufacturing Technology / 2nd term
4- Unit hours Lectures: 2 hrs Tutorial: 2hrs Practical: 2hrs Total: 6 hrs
5- Names of lecturers contributing to the delivery of the course:

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

B- Statistical Information

No. of students attending the course: 122 100%
No. of students completing the course: 122 100%
Results:

	No.	%
Passed	116	95.08
Failed	6	4.92

Grading of successful students:

	No.	%
Excellent	26	21.31
Very Good	32	26.23
Good	30	24.59
Pass	28	22.95

C- Professional Information

1- Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer
• Introduction to quality	2			Dr. Mohamed Saad
• Quality improvement techniques	2		2	
• Quality improvement monitoring	2			
• Quality cost	2		-	
• Fundamentals of statistics and quality	2	4	2	
• Control charts for variables	7	8	8	
• Fundamentals of probability and quality	4	2	2	
• Control charts for attributes	2	6	6	
• Acceptance sampling plans	3	6	6	
• Acceptance sampling systems	2	2	-	
• Reliability and quality	2	2	-	
• Computers and quality control	2	-	4	
• **Total hours**	30	30	30	

- **Topics taught as a percentage of the content specified:**
  >90 % **70-90 %** **87** **<70%** ….
- **Reasons in detail for not teaching any topic: -**
  Reduced hours due to extra vacations

2- Teaching and learning methods:

- **Lectures:** Classical lecturing using the white board
- **Practical training/ laboratory:** Computer lab. with software
- **Seminar/Workshop:** None
- **Class activity**: Solution of Problems

- **Case Study:** None
- **Other assignments/homework:** Assignment report each 4 weeks

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

3- Student assessment:

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

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

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered	**None**

6- Student evaluation of the course:

List any criticisms	Response of course team
None	None

7- Comments from external evaluator(s):

	Response of course team
None	None

8- Course enhancement:

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

9- Action plan for academic year 2016 – 2017

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

Course coordinator: Dr. Mohamed Saad Abdelkarim
Signature:
Date: 1/8/2016

Annual Course Report
For Academic year 2015/2016

A- Basic Information

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

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

B- Statistical Information

No. of students attending the course: 122 100%
No. of students completing the course: 122 100%
Results:

	No.	%
Passed	118	96.72
Failed	4	3.28

Grading of successful students:

	No.	%
Excellent	46	37.7
Very Good	40	32.78
Good	20	16.39
Pass	12	9.83

C- Professional Information

1- Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
• Continuous and Discrete system simulation	2	-	
• Development of simulation models	6	6	
• Random number generation	4	4	
• Model Validation, and analysis of model output	4	4	
• Impact of nonlinearity and transient behavior	4	4	
• Dynamic system analysis	4	4	
• Application of simulation packages.	4	6	
• Revision	2	2	
Total hours	**30**	**30**	

Topics taught as a percentage of the content specified:

>90 % 92 **70-90 %** **<70%** ....

- **Reasons in detail for not teaching any topic: - reduced hours due to extra vacations**

2- Teaching and learning methods:

- **Lectures:** Classical lecturing using the white board
- **Practical training/ laboratory:** None
- **Seminar/Workshop:** None
- **Class activity**: Solution of Problems

- **Case Study:** None
- **Other assignments/homework:** Assignment report each 4 weeks

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

3- Student assessment:

Method of assessment	**Percentage of total**
▪ **Written examination**	60
▪ **Oral examination**	
▪ **Practical/laboratory work**	
▪ **Other assignments/class work**	20
▪ **Mid-Term Exam**	20
Total	**100 %**
Members of examination committee	Prof. Dr. Bakr M. Rabee & Dr. M. S. Abdelkarim
Role of external evaluator	None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered	**None**

6- Student evaluation of the course:

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

7- Comments from external evaluator(s):

	Response of course team
None	None

8- Course enhancement:

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

9- Action plan for academic year 2016 – 2017

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

Course coordinator: Dr Mohamed Saad Abdelkarim
Signature:
Date: **1/8/**2016

Annual Course Report
2014/2015

A- Basic Information

1- Title and code: M581: Advanced Manufacturing Processes
2- Program(s) on which this course is given: Manufacturing Eng. and Production. Technology
3- Year/Level of program: 5th year Manufacturing Technology / 2nd term
4- Unit hours Lectures 3 hrs Tutorial 1hrs Practical 2 hrs Total 6hrs
5- Names of lecturers contributing to the delivery of the course:
Prof. Dr. A.M. Kohail
Course coordinator: Prof. Dr. A.M. Kohail
External evaluator: None

B- Statistical Information

No. of students attending the course: 122 100%
No. of students completing the course: 122 100%
Results:

	No.	%
Passed	113	92.62
Failed	9	7.38

Grading of successful students:

	No.	%
Excellent	16	13.11
Very Good	22	18.03
Good	34	27.86
Pass	41	33.6

C- Professional Information

1- Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
• Introduction to Non-Traditional Machining	3	-	-
• Electro-Discharge Machining (EDM)	10	3	26
• Electro Chemical Machining (ECM)	6	3	-
• Laser beam Machining (LBM)	6	1	2
• Electron beam Machining (EBM)	3	-	-
• Ultrasonic Machining (USM)	3	1	-
• Abrasive jet Machining (AJM)	2	1	2
• Water jet Machining (WJM)	4	2	-
• Abrasive water jet Machining (AWJM)	3	2	-
• Chemical Machining (CHM)	3	1	-
• Plasma Arc Machining (PAM)	2	1	-
• **Total hours**	45	15	30

- **Topics taught as a percentage of the content specified:**
  >90 % 93 **70-90 %** **<70%** ….
- **Reasons in detail for not teaching any topic: - reduced hours due to extra vacations**
- **-the lab is equipped only with EDM machine**

2- Teaching and learning methods:

- **Lectures:** Classical lecturing using the white board
- **Practical training/ laboratory:** EDM machine
- **Seminar/Workshop:** None
- **Class activity:** Solution of problems

- **Case Study:** Non-traditional machining methods
- **Other assignments/homework:** Assignment report each 4 weeks

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

3- Student assessment:

Method of assessment	**Points**
▪ **Written examination**	100
▪ **Oral examination**	
▪ **Practical/laboratory work**	**20**
▪ **Other assignments/class work**	**10**
▪ **Mid-Term Exam**	20
Total	**150**
Members of examination committee	Prof. Dr.A.M.Kohail
Role of external evaluator	None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered	None

6- Student evaluation of the course:

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

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

8- Course enhancement:

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

9- Action plan for academic year 2016 – 2017

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

Course coordinator: Prof. Dr. A.Kohail
Signature:
Date: 1/8/2016

Annual Course Report
2015/2016

A- Basic Information

1- Title and code: (M599) Graduation Project
2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc. Prog
3- Year/Level of program: Fifth Year Manufacturing Eng. & Prod. Tech,
4- Unit hours Lectures [---] Tutorial [---] Practical [2] Total [2 hrs] First Term
Lectures [---] Tutorial [---] Practical [4] Total [4 hrs] Second Term
In addition to (2-3)weeks (5 days per week / six hours per day)after written final exams
5- Names of lecturers contributing to the delivery of the course
All the teaching Staff of the department
Course coordinator Dr. Abdelmagid A. Abdalla
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** [122] **%** [100]
No. of students completing the course: **No.** [122] **%** [100]
Results:

	No.	%
Passed	120	98.36
Failed	2	1.64

Grading of successful students:

	No.	%
Excellent	108	88.5
Very Good	7	5.74
Good	2	1.64
Pass	3	2.46

C- Professional Information

1 – Course teaching

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

Topics taught as a percentage of the content specified:
>90 % [100] **70-90 %** [---] **<70%** [....]
Reasons in detail for not teaching any topic
If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing, seminars, reports, & presentations
Practical training/ laboratory: Testing & calibration
Seminar/Workshop: 3 seminars in addition to final presentation
Class activity: brain storming, & discussions
Case Study:
Other assignments/homework: Weekly assignment
If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Method of assessment	**Percentage of total**
Written examination	-----%
Oral examination	25%
Practical/laboratory work	25%
Other assignments/class work	50 %
Mid-Term Exam	----
Total	**100 %**

Members of examination committee All members of the
Role of external evaluator None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

List any criticisms	Response of course team
- NA	- NA

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

8- Course enhancement:

9- Action plan for academic year 2016 – 2017

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

Course coordinator: Dr. Abdelmagid A. Abdalla
Signature:
Date: August /2016