

Manufacturing Engineering and Production Technology B.Sc.

**Program Report
(Credit Hours)**

2017 - 2018

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Manufacturing Engineering and Production Technology

PROGRAM REPORT (Credit Hours)

September 2018

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 & Prod. Tech. Department.
- 4- **Co-coordinator:** Dr. Abdelmagid A. Abdalla
- 5- **Year of operation:** 2012-2013

NOTE:

This program started in 2013/2014, which means that students who enrolled in this program graduated in 2017/2018. This program report aims to monitor the education process in the academy and the procedure of following up the defects that arises and how these defects can be removed.

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. Fatheya Abdelhady Soliman,** Emeritus Professor- Mechanical Design & Production Department, Faculty of Engineering, Cairo 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. The credit hour system has been introduced starting 2012/2013.
- 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, fourth 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 two years ago, and as this is the first program report for the credit hours' system, the comments of the external reviewers will be stated.

1) First Evaluator

Reviewer Comment

Coordinator Response

- | | |
|---|---|
| <ul style="list-style-type: none"> ➤ The basic information included is accurate, specific and consistent with the rest of the program specifications. ➤ The program has a designated coordinator/coordinating team. | <ul style="list-style-type: none"> ➤ Basic information listed is according to the ministerial decrees mentioned above. ➤ The department council has chosen the program coordinator and the coordinating team. |
|---|---|

2) Second Evaluator

Reviewer Comment

Coordinator Response

- | | |
|---|---|
| <ul style="list-style-type: none"> ➤ The basic information included is accurate, specific and consistent with the rest of the program specifications. ➤ The program has a designated coordinator/coordinating team. | <ul style="list-style-type: none"> ➤ Basic information listed is according to the ministerial decrees mentioned above. ➤ The department council has chosen the program coordinator and the coordinating team. |
|---|---|

2. Professional Information

2.1 Statistics

1-No. of students starting the program at 2013 - 2014 were 219 (students accepted in the Academy the academic year 2012/2013 were 1100 students with a ratio 19.9 %)

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

Level		Number of students	Percentage of passing students
First	2014-2015	209	NA
Second	2015-2016	166	NA
Third	2016-2017	163	NA
Fourth	2017-2018	156	NA

2.2 Academic Standards

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

A1. Curriculum Mapping Matrices

The following four tables include the contribution of the program courses in the program ILO's.

MNF538	Elective 4	1		1	1				1									1	1	1					
MNF 530	Elective 7			1					1				1	1	1					1					
MNF 537	Elective 7	1		1					1									1							
MNF 361	Seminar-1.								1		1		1												
MNF 362	Seminar-2.								1		1		1												
MNF 461	Project-1														1										
MNF 462	Industrial Training(1)																			1	1				
MNF 551	Elective 3	1		1	1		1		1	1		1	1												
MNF 552	Elective 3	1		1	1						1														
MNF 553	Elective 5					1				1		1						1		1					
MNF 561	Project-2a														1										
MNF 562	Industrial Training(2)																			1	1				
MNF 563	Project-2b														1										

A1-2 Program Mapping Matrix; Courses/Intellectual Skills (B's)

Code	Subject	Intellectual skills (B)																					
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22
GEN 141	Contemporary Social Issues				1						1												
GEN 142	English Language				1																		
GEN 143	History of Engineering and Technology	1	1				1	1															
GEN 241	presentation skills												1										
GEN 242	Technical Report Writing				1																		
GEN 351	Elective 2	1	1					1	1					1									
GEN 453	Elective 3			1		1				1													
GEN 352	Elective 5			1	1					1			1										
GEN 353	Management & International Business			1	1	1				1	1												
GEN 354	Sound System and Noise Pollution				1								1		1								
GEN 454	Basics of Engineering Syndicate Works								1	1		1		1									
CHE 100	Chemistry	1	1	1	1		1		1		1		1										
CMP 110	Program Design and Computer Language	1	1	1	1			1					1	1	1				1	1			
MEC 101	Mechanics-1	1	1																				
MEC 102	Mechanics-2	1	1			1							1		1								
MTH 101	Math-1 (Algebra and Calculus)	1	1	1				1															
MTH 102	Math-2 (Integration and Analytic Geometry)	1	1	1	1			1				1											
MTH 203	Math-3 (Differential Equations and Transforms)	1	1	1				1															
MTH 207	Math-7 (Numerical Analysis)	1	1	1								1											
MTH 305M	Math-5 (Introduction to Probability and Statistics)	1	1	1				1				1											
PHY 101	Physics-1	1	1	1				1															
PHY 102	Physics-2		1	1	1	1	1						1		1								
ELC 316	Electro Engineering	1	1			1				1			1	1	1								
ELC 317	Electric Machines		1	1			1			1		1											
MNF 100	Introduction to Engineering Materials	1	1			1							1		1		1						
MNF 101	Eng. Graphics			1		1		1	1	1													
MNF 102	Principles of Production Engineering		1	1							1									1			
MNF 211	Mechanics of materials					1	1	1					1	1					1				
MNF 212	Fundamentals of materials Science	1	1			1							1		1				1				
MNF 213	Mechanics of Machines-1	1											1										
MNF 214	Machine Drawing-1			1	1				1										1				
MNF 215	Mechanics of Machines-2	1				1							1	1	1								
MNF 216	Machine Drawing-2			1	1				1										1				
MNF 311	Fluid Mechanics	1	1					1					1						1				
MNF 312	Computer Applications-1			1	1				1										1				
MNF 313	Computer Applications-2							1					1							1			1
MNF 314	Thermodynamics	1	1	1		1							1						1				
MNF 411	Mechanical Measurements				1	1			1		1							1				1	
MNF 412	Industrial Operations Research	1	1	1				1	1			1		1					1				
MNF 413	Automatic Control	1				1							1		1								
MNF 511	Quality Control and Quality Management				1	1					1												
MNF 431	Elective 1	1	1			1							1				1						
MNF 432	Elective 1	1	1										1										
MNF 433	Elective 1							1	1							1				1			
MNF 221	Metal Cutting Processes			1						1			1			1							
MNF 222	Materials Technology and Testing	1	1			1							1		1			1			1		
MNF 321	Metals Cutting Theory	1		1						1			1						1	1			
MNF 322	Machine Design-1		1			1	1						1										
MNF 323	Foundry Technology	1	1	1		1	1						1		1								
MNF 324	Machine Design-2		1			1	1						1										
MNF 325	Engineering Metrology				1	1			1			1			1						1		
MNF 421	Joining Processes		1	1		1	1						1				1					1	1
MNF 422	Computer Numerical Control, CNC MACHINES	1	1	1																1			
MNF 423	Computer Aided Design (CAD)	1	1	1		1			1			1		1		1							
MNF 424	Advanced Materials and Composite		1	1				1					1						1	1	1		
MNF 425	Modern Manufacturing Methods		1							1	1				1					1			
MNF 521	Computer Aided Manufacturing (CAM)	1	1	1		1			1				1						1				
MNF 522	Hydraulic Power Systems	1	1			1				1			1	1	1								
MNF 523	Production Aids Design	1	1	1																1			
MNF 524	Industrial Thermal Systems	1	1				1						1										
MNF 535	Elective 7	1		1		1																	1
MNF 538	Elective 4	1		1	1	1	1		1	1			1		1					1			1
MNF537	Elective 7	1				1				1				1	1					1			
MNF 531	Elective 4	1	1	1		1		1				1		1						1			
MNF 532	Elective 4						1					1											
MNF 533	Elective 6		1	1		1																	

MNF 530	Elective 7	1			1				1					1	1			1						
MNF 551	Elective 3	1	1		1						1				1	1	1	1						
MNF 552	Elective 3								1															
MNF 553	Elective 5	1	1						1	1				1	1			1						
MNF 361	Seminar-1.		1					1		1	1													
MNF 362	Seminar-2.		1					1		1	1													
MNF 461	Project-1	1		1										1									1	
MNF 462	Industrial Training(1)				1									1										
MNF 561	Project-2a	1		1										1									1	
MNF 562	Industrial Training(2)				1									1										
MNF 563	Project-2b	1		1										1									1	
MNF 534	Elective 6	1	1											1	1			1				1		1
MNF 536	Elective 6	1	1			1								1				1				1		

Table A1-3 Program Mapping Matrix; Courses/ Professional and practical skills (C's)

Code	Subject	Professional and practical skills C's																					
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22
GEN 141	Contemporary Social Issues	1				1																	
GEN 142	English Language										1	1											
GEN 143	History of Engineering and Technology	1				1																	
GEN 241	presentation skills										1												
GEN 242	Technical Report Writing		1		1							1	1										
GEN 351	Elective 2	1				1		1		1													
GEN 453	Elective 3		1		1				1														
GEN 352	Elective 5	1				1				1													
GEN 353	Management & International Business	1				1																	
GEN 354	Sound System and Noise Pollution			3												1							
GEN 454	Basics of Engineering Syndicate Works									1	1	1	1										
CHE 100	Chemistry	1	1	1		1			1			1											
CMP 110	Program Design and Computer Language	1	1	1	1	1	1	1							1	1							
MEC 101	Mechanics-1	1	1																				
MEC 102	Mechanics-2	1		1		1																	
MTH 101	Math-1 (Algebra and Calculus)	1											1										
MTH 102	Math-2 (Integration and Analytic Geometry)	1						1															
MTH 203	Math-3 (Differential Equations and Transforms)	1											1										
MTH 207	Math-7 (Numerical Analysis)	1				1		1															
MTH 305M	Math-5 (Introduction to Probability and Statistics)	1	1										1										
PHY 101	Physics-1	1	1			1					1												
PHY 102	Physics-2	1				1			1		1			1									
ELC 316	Electro Engineering	1		1		1	1					1				1	1						
ELC 317	Electric Machines	1			1	1			1														
MNF 100	Introduction to Engineering Materials	1	1																		1		
MNF 101	Eng. Graphics		1	1	1						1			1									
MNF 102	Principles of Production Engineering	1		1				1															
MNF 211	Mechanics of materials	1		1		1			1			1											
MNF 212	Fundamentals of materials Science	1	1																		1		
MNF 213	Mechanics of Machines-1	1																					
MNF 214	Machine Drawing-1	1	1	1							1					1							
MNF 215	Mechanics of Machines-2	1	1	1		1	1		1		1												
MNF 216	Machine Drawing-2	1	1								1			1	1								
MNF 311	Fluid Mechanics		1	1		1						1					1	1					
MNF 312	Computer Applications-1	1	1	1							1				1		1						1
MNF 313	Computer Applications-2	1	1			1			1		1				1	1		1				1	1
MNF 314	Thermodynamics	1	1		1						1	1				1	1		1				
MNF 411	Mechanical Measurements		1	1		1										1							
MNF 412	Industrial Operations Research	1	1					1	1			1						1					
MNF 413	Automatic Control	1				1											1	1					
MNF 511	Quality Control and Quality Management										1							1					
MNF 431	Elective 1	1				1	1	1								1							
MNF 432	Elective 1	1	1	1														1					
MNF 433	Elective 1	1	1																		1		
MNF 221	Metal Cutting Processes						1		1			1				1					1		
MNF 222	Materials Technology and Testing	1	1																		1		
MNF 321	Metals Cutting Theory	1	1			1	1		1			1						1					
MNF 322	Machine Design-1	1		1								1	1										
MNF 323	Foundry Technology	1		1		1	1					1	1				1	1					
MNF 324	Machine Design-2	1		1								1	1										
MNF 325	Engineering Metrology		1	1		1											1						
MNF 421	Joining Processes	1		1		1	1					1	1			1	1						1
MNF 422	Computer Numerical Control, CNC MACHINES					1									1	1		1	1				
MNF 423	Computer Aided Design (CAD)	1	1																				
MNF 424	Advanced Materials and Composite			1		1			1						1		1		1		1	1	1
MNF 425	Modern Manufacturing Methods														1	1	1	1	1				
MNF 521	Computer Aided Manufacturing (CAM)	1	1			1	1			1	1		1		1			1					
MNF 522	Hydraulic Power Systems	1		1		1	1					1					1	1					
MNF 523	Production Aids Design	1		1																			
MNF 524	Industrial Thermal Systems	1	1	1															1				
MNF 531	Elective 4	1				1	1	1											1		1		
MNF 532	Elective 4				1												1	1					
MNF 533	Elective 6		1	1						1	1				1							1	
MNF 534	Elective 6					1	1	1							1								1

MNF 535	Elective 7	1	1	1		1	1												1		
MNF 536	Elective 6	1				1	1	1							1						
MNF 537	Elective 7	1	1	1		1	1				1	1			1						
MNF 538	Elective 4	1		1		1	1				1	1			1	1					1
MNF 530	Elective 7		1	1			1								1	1					1
MNF 361	Seminar-1.	1	1						1												
MNF 362	Seminar-2.	1	1						1												
MNF 461	Project-1	1	1			1			1		1	1			1			1			
MNF 462	Industrial Training(1)	1													1			1	1		
MNF 551	Elective 3								1		1	1									
MNF 552	Elective 3								1												
MNF 553	Elective 5	1	1	1		1	1	1			1										
MNF 561	Project-2a	1	1			1			1		1	1			1			1			
MNF 562	Industrial Training(2)	1													1			1	1		
MNF 563	Project-2b	1	1			1			1		1	1			1			1			

Table A1-5 Curriculum Mapping Matrix Courses/General Transferrable skills (D's)

Code	Subject	General and transferable skills (D)								
		01	02	03	04	05	06	07	08	09
GEN 141	Contemporary Social Issues	1		1				1		1
GEN 142	English Language	1	1	1	1		1	1	1	
GEN 143	History of Engineering and Technology	1						1	1	
GEN 241	presentation skills	1	1	1		1		1		
GEN 242	Technical Report Writing						1		1	
GEN 351	Elective 2	1	1	1				1		1
GEN 453	Elective 3	1	1				1			1
GEN 352	Elective 5	1		1				1		1
GEN 353	Management & International Business	1		1				1		1
GEN 354	Sound System and Noise Pollution	1		1					1	
GEN 454	Basics of Engineering Syndicate Works	1	1	1			1	1		
CHE 100	Chemistry	1	1	1	1	1		1		
CMP 110	Program Design and Computer Language	1		1	1	1		1		1
MEC 101	Mechanics-1	1	1							
MEC 102	Mechanics-2	1	1							
MTH 101	Math-1 (Algebra and Calculus)			1				1		
MTH 102	Math-2 (Integration and Analytic Geometry)	1		1				1		
MTH 203	Math-3 (Differential Equations and Transforms)			1				1		
MTH 207	Math-7 (Numerical Analysis)			1	1			1		
MTH 305M	Math-5 (Introduction to Probability and Statistics)			1				1		
PHY 101	Physics-1	1	1	1	1		1			1
PHY 102	Physics-2	1		1	1	1		1		
ELC 316	Electro Engineering	1		1				1		1
ELC 317	Electric Machines		1	1			1	1		
MNF 100	Introduction to Engineering Materials	1		1				1		1
MNF 101	Eng. Graphics	1		1						1
MNF 102	Principles of Production Engineering	1		1				1		1
MNF 211	Mechanics of materials	1		1						1
MNF 212	Fundamentals of materials Science	1		1				1		1
MNF 213	Mechanics of Machines-1	1		1				1		1
MNF 214	Machine Drawing-1	1		1						1
MNF 215	Mechanics of Machines-2	1		1				1		
MNF 216	Machine Drawing-2	1				1				1
MNF 221	Metal Cutting Processes	1		1				1		1
MNF 222	Materials Technology and Testing	1		1				1		1
MNF 311	Fluid Mechanics	1	1	1		1				
MNF 312	Computer Applications-1	1		1						1
MNF 313	Computer Applications-2	1			1					
MNF 314	Thermodynamics	1		1				1	1	
MNF 321	Metals Cutting Theory	1		1				1		1
MNF 322	Machine Design-1		1	1				1		1
MNF 323	Foundry Technology	1		1				1		1
MNF 324	Machine Design-2		1	1				1		1
MNF 325	Engineering Metrology		1							
MNF 361	Seminar-1.			1			1	1		
MNF 362	Seminar-2.			1			1	1		
MNF 411	Mechanical Measurements		1							
MNF 412	Industrial Operations Research	1		1			1	1		1
MNF 413	Automatic Control			1	1			1		
MNF 421	Joining Processes	1		1				1		1
MNF 422	Computer Numerical Control, CNC MACHINES	1		1			1			
MNF 423	Computer Aided Design (CAD)				1	1				
MNF 424	Advanced Materials and Composite			1	1			1	1	1
MNF 425	Modern Manufacturing Methods	1		1	1			1		1
MNF 431	Elective 1	1		1				1		1
MNF 432	Elective 1	1		1				1		1
MNF 433	Elective 1	1		1				1		1
MNF 461	Project-1			1			1	1		
MNF 462	Industrial Training(1)			1			1	1		
MNF 511	Quality Control and Quality Management	1		1				1		
MNF 521	Computer Aided Manufacturing (CAM)	1			1					
MNF 522	Hydraulic Power Systems	1		1	1			1		1
MNF 523	Production Aids Design	1		1				1		1
MNF 524	Industrial Thermal Systems	1		1				1		1
MNF 530	Elective 7	1		1				1		
MNF 531	Elective 4	1		1	1		1			

MNF 532	Elective 4	1						1		1
MNF 533	Elective 6	1		1	1					
MNF 534	Elective 6	1		1	1			1		1
MNF 535	Elective 7		1	1	1					1
MNF 536	Elective 6	1		1				1		1
MNF 537	Elective 7	1		1	1			1		1
MNF 538	Elective 4	1		1				1		1
MNF 551	Elective 3	1	1	1				1		
MNF 552	Elective 3	1		1				1	1	1
MNF 553	Elective 5	1		1	1			1		1
MNF 561	Project-2a			1				1	1	
MNF 562	Industrial Training(2)			1				1	1	
MNF 563	Project-2b			1				1	1	

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 fourth and fifth years.

b) Comments of external evaluator

1) First Evaluator

Reviewer Comment

➤ Program Aims

- The aims are consistent with the degree awarded by completion of the program.
- The program aims are clearly stated.
- The aims specify the most important knowledge skills and attitudes students should gain after completing the program.

Coordinator Response

- The department council agreed upon the aims of the program.

2) Second Evaluator

Reviewer Comment

➤ Program Aims

- The aims are consistent with the degree awarded by completion of the program.
- The program aims are clearly stated.
- The aims specify the most important knowledge skills and attitudes students should gain after completing the program.

Coordinator Response

- The department council agreed upon the aims of the program.

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

Reviewer Comment	Coordinator Response
<p>➤ Intended Learning Outcomes (ILOs)</p> <ul style="list-style-type: none"> - The program ILO's are clearly stated. - The program ILO's are appropriately coded. - Consistent with the program aims. - Program ILO's are adequately fulfilled by the program courses. - Cover the minimum requirements in accordance with the awarded degree in terms of : Knowledge, Professional & Practical skills, Intellectual capabilities, and General and transferable skills. - Program ILO's cope with recent advances in the field of specialty. <p>➤ Academic Reference Standard</p> <ul style="list-style-type: none"> - The academic Reference standards of the program are clearly stated. - The reference standards used as a benchmark are specified. - The degree to which the academic standards of the program measure up to the specified benchmark (they fall below it). <p>➤ Curriculum Structure and Contents</p> <p>✓ Program duration</p> <ul style="list-style-type: none"> - The minimum duration specified is adequate to fulfill the program activities & objectives. <p>✓ Program Structure</p> <ul style="list-style-type: none"> - The number of hours required to complete the program are specified and adequate. - Distribution of the hours as compulsory, elective, and optional is acceptable. - The following areas are adequately covered in the program (Social sciences and humanities, Basic science course. Specialized courses. Practical/Field training). - No other courses should be included in the program. 	<p>➤ The department adopted the ARS as the academic reference standard and considered the ARS intended learning outcomes as the program ILO's. Moreover, the courses ILO's are stated in detail in the courses specifications. They agree, in general, with the program ILO's</p> <p>➤ The department adopted the ARS standard as a reference academic standard.</p> <p>➤ The duration of the program has been determined according to ARS standard. Also the number of hours and their distribution to different areas are according to ARS.</p>

2) Second Evaluator

Reviewer Comment	Coordinator Response
<p>➤ Intended Learning Outcomes (ILOs)</p> <ul style="list-style-type: none"> - The program ILO's are clearly stated. - The program ILO's are appropriately coded. - Consistent with the program aims. - The program ILO's are adequately fulfilled by the program courses. - Cover the minimum requirements in accordance with the awarded degree in terms of : Knowledge, Professional & Practical skills, Intellectual capabilities, and General and transferable skills. - The program ILO's cope with recent advances in the field of specialty. <p>➤ Academic Reference Standard</p> <ul style="list-style-type: none"> - The academic Reference standards of the program are clearly stated. 	<p>➤ The department adopted the NARS as the academic reference standard and considered the NARS intended learning outcomes as the program ILO's. Moreover, the courses ILO's are stated in detail in the courses specifications. They agree, in general, with the program ILO's</p> <p>➤ The department adopted the ARS standard as a reference academic standard.</p>

- The reference standards used as a benchmark are specified.
- The degree to which the academic standards of the program measure up to the specified benchmark * they fall below it).
- **Curriculum Structure and Contents**
- ✓ Program duration
 - The minimum duration specified is adequate to fulfill the program activities & objectives.
- ✓ Program Structure
 - The number of hours required to complete the program are specified and adequate.
 - Distribution of the hours as compulsory, elective, and optional is acceptable.
 - The following areas are adequately covered in the program (Social sciences and humanities, Basic science course. Specialized courses. Practical/Field training).
 - No other courses should be included in the program.
- The duration of the program has been determined according to ARS standard. Also the number of hours and their distribution to different areas are according to ARS.

3- Regulation & Evaluation

a) Comments of stakeholders:

- 1) 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

Reviewer Comment

- The program admission requirements are clearly specified and matching the school bylaws.
- The regulation for progression and program completion are clearly specified and matching the school bylaws.
- The methods used for program evaluation are adequate.

Coordinator Response

- The program admission requirements have been applied according to the law No. 52 of 1970, on the organization of private colleges and institutes regulations issued Ministerial Resolution No. 1088 for the year 1987 and amended decisions.
- Methods used to evaluate the program are student questionnaire, external reviewers, and stakeholders' comments.

2) Second Evaluator

Reviewer Comment

- The program admission requirements are clearly specified and matching the school bylaws.
- The regulation for progression and program completion are clearly specified and matching the school bylaws.
- The methods used for program evaluation are adequate.

Coordinator Response

- The program admission requirements have been applied according to the law No. 52 of 1970, on the organization of private colleges and institutes regulations issued Ministerial Resolution No. 1088 for the year 1987 and amended decisions.
- Methods used to evaluate the program are student questionnaire, external reviewers, and stakeholders' comments.

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**

Reviewer Comment

- There are some courses, course notes, required books, and recommended books not specified or no published date.
- There is a new edition for some basic sciences courses.
- For many books published dates are required.
- Required books & recommended books must be updated.
- General Note: A lot of books and references should be updated.

Coordinator Response

- Course notes have been added to the course specifications.
- The mentioned courses are basic science courses; new editions will be added.
- Publishing dates have been added to some books.
- Updating of references will be carried out.

2) **Second Evaluator**

Reviewer Comment

- ILO s of some courses needs to be revised.
- Student's assessment/ILOs matrix in some courses should be corrected.
- Verbs used to describe ILO's need to be revised (marked in documents)
- Facilities required for teaching and learning in many courses need to be completed.
- Recommended books and required one need to be completed.
- ILO's of some courses cannot be measured and need to be revised (marked in documents)

Coordinator Response

- ILO's have been revised for all courses.
- The errors which have been found in student assessment methods and ILO's matrix will be corrected.
- The ILO's have been revised and corrected
- There are different facilities for teaching and learning and every teaching staff has laid down the facilities that he actually apply.
- The ILO's have been revised and corrected

5- Overall Evaluator Opinion & Free Comments

a) **Comments of stakeholders:**

None

b) **Comments of external evaluator**

1) **First Evaluator**

Reviewer Comment

- Generally this program is considered up to standard if compared with other similar programs, and I am sure that a lot of effort has been carried out to present this report in this honorable form.

Coordinator Response

- The program has been prepared according to ARS.

2) Second Evaluator

	Reviewer Comment	Coordinator Response
➤	None	

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

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

None

2- Second Evaluator

None

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

None

2- Second Evaluator

None)

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

- 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 H.R. document))

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 refurnished 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 34 computers is specified to the department to help in teaching 6 courses.
- The department is going to buy a virtual lab. That can help for teaching the lab for a lot of courses

F. Adequacy of computer facilities

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

G. Adequacy of field/practical training resources

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

H. Adequacy of any other program needs

None

2.9 Quality management

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

There is a unit for Quality Assurance in the department began its course of action by doing self-assessment to the department at the end of the academic year 2009/2010, in order to identify and develop the strength points and to identify and treat the weak points (SWOT). The views of

all interested parties (faculty members, their assistants, students, the administrative bodies, representatives of civil society, and stakeholders) in the courses and the educational process have been explored, and sample of students has been taken (10%) of the total number of students of the college. As for the faculty members, they were asked all and for the administrative apparatus, the sample (30%) of the total number has been analyzed. The results of the poll were statistically analyzed then a view of these results was discussed with the College Board to take decisions on further development.

The results of self-evaluation and quality management

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

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

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

Strengthening activities for Quality Management

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

Strengthening the quality management in the department through:

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

B. Effectiveness of the system

The quality management system is effective since there are:

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

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

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

D. Effectiveness of program external evaluation system:

I- External evaluators

The department program is evaluated by two qualified external evaluators.

II- Students

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

III- Other stakeholders

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

E. Faculty response to student and external evaluations

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

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

3. Proposals for program development

A 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.

B. Staff development requirements

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

4. Progress of previous year's action plan

Action identified	Person Responsible	Progress of action
Choice of external reviewers to review the program specifications for credit hour system.	The department and the Administration of the Academy	Done
Specialized training courses for all staff and teaching assistants	Training Sector of the Academy	<p>Six training courses have been held</p> <p>1- Use of Technology in teaching (10-11/11/2013) (1 Staff & 1 Assistant)</p> <p>2-Different methods of examinations & student evaluation (12-14/11/2013) (1 Staff & 1 Assistant)</p> <p>3- Training for trainer Track (26-27/8/2014) (2 assistants)</p> <p>4- Ethics of scientific research (15-16/11/2015) (2 Staff & 4 Assistants)</p> <p>5- Use of Technology in teaching (26-27/01/2015) (2 Staff & 2 Assistant)</p> <p>6- International Publishing of Scientific Researches (22/1/2017- 6 assistants)</p>

Complete the shortage in educational staff. (According to the plane one Staff member and 2 teaching assistants).	Administration of the Academy	Four staff members have been added to the department and three teaching assistants, while one left
Holding the Fourth scientific conference of the academy	Administration of the academy	Not carried out.
The Third & Fourth scientific conferences of the department	The department	Done at November 2014 and at March 2015
Training of Teaching Assistants on CAMWORKS package	Department	14 teaching assistants attended the training held on September 2015

5. Action plan (2018/2019)

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

Program Coordinator: Dr. Abdelmagid A. Abdalla

Signature:

Semester's Course Report

2013/2014

Freshman, First Semester

Code	Course
MTH101	Math-1 (Algebra and Calculus)
PHY101	Physics-1
MNF101	Eng. Graphics
CHE100	Chemistry
MEC101	Mechanics-1
GEN141	Contemporary Social Issues
GEN143	History of Engineering and Technology

Freshman, Second Semester

Code	Course
MTH102	Math-2 (Integration and Analytic Geometry)
PHY102	Physics-2
MEC102	Mechanics-2
MNF102	Principles of Production Engineering
CMP110	Program Design and Computer Language
GEN142	English Language
MNF100	Introduction to Engineering Materials

Semester's Course Report Academic year 2013-2014

A- Basic Information

- 1- **Course Code & Title:** (MTH 101) Algebra and Calculus
- 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
 Architecture Engineering and Building Technology BSc Program
- 3- **Year/Level of program:** First Year/First Semester
- 4- **Credit hours**
 Credit 3 hrs Lectures: 2 hrs Tutorial 2 hrs Practical
- 5- **Names of lecturers contributing to the delivery of the course:**
 Prf. Dr. Osama El Gayar
 Dr. Sabry Abd El-Aziz
 Dr. Nabila El Sawy
- 6- **Course coordinator:** Dr. Sabry Abd El-Aziz
- 7- **External evaluator:** Non

B- Statistical Information

- 1- **No. of students attending the course:** **No.** **1301** **100** **%**
- 2- **No. of students completing the course:** **No.** **1252** **96.23** **%**
- 3- **Results:**

	No.	%
Passed	1117	89.22
Failed	135	10.78

Grading of successful students:		
Grade	No.	%
Excellent	607	48.48
Very Good	236	18.85
Good	143	11.42
Pass	131	10.46

C- Professional Information

1 – Course teaching

Topic		Lecture hours	Actual hours	Tutorial hours
1	Functions.	4	3	2
2	Differentiation.	3	4	4
3	Trigonometric and inverse trigonometric functions.	3	4	4
4	Exponential and logarithmic functions.	2	2	2
5	Hyperbolic and inverse hyperbolic functions.	2	2	2
6	Taylor and binomial expansions.	2	2	2
7	Matrices with applications.	6	4	6
8	Vectors in the Euclidean space.	2	1	2
9	Real vector spaces.	2	1	2
10	Polar coordinates.	2	1	2
11	Final Revision	2	2	2
Total hours		30	26	30

- Topics taught as a percentage of the content specified: More than 85 %
 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 a1 to a7	Intellectual skills b1 to b5	Applied Skills c1 to c2	General transferable skills d1 to d3
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2- Teaching and learning methods:

Lectures: Lecture, discussions, tutorials, problem solving
 Practical training/ laboratory:
 Seminar/Workshop:
 Class activity Solution of problems
 Other assignments/homework: Weekly assignments
 If teaching and learning methods were used other than those specified, give reasons: Non

3- Student assessment:

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

Members of examination committee: Prof. Dr. Osama and Dr. Sabry

Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	
Adequate to some extent	Yes
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
(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

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	Non	Non

10- Action plan for academic year 2015 – 2016

Actions required	Completion date	Person responsible
Adding more exercises, assignments reports and quizzes	September , 2015	Dr. Sabry

Course coordinator: Dr. Sabry Abd El-Aziz

Signature:

Date: February, 2014

Semester's Course Report Academic year 2013 -2014

A- Basic Information

1- Course Code & Title: (PHY 101) Physics

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
Architecture Engineering and Building Technology BSc Program

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

4- Credit hours: 3 Lectures : 2 hrs Tutorial : 1 hr Practical : 2 hrs

5- Names of lecturers contributing to the delivery of the course: Dr.El-Tawab Kamal

Dr. Abo el Yazeed B. Abo el Yazeed

Dr. Marwa Y. Shoeib

Dr. Nagat A. Elmahdy

6- Course coordinator: Dr. Nagat A. Elmahdy

7- External evaluator: Non

B- Statistical Information

4- No. of students attending the course:

No.	1165	100	%
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5- No. of students completing the course:

No.	1165	100	%
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6- Results:

	No.	%
Passed	1041	85.48
Failed	124	14.52

Grading of successful students:		
Grade	No.	%
Excellent	488	41.89
Very Good	236	20.257
Good	147	12.618
Pass	170	14.6

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecturer
	Plan.	Actual	
• Rotational motion and the Gravitational Law.	10	10	Prof. Dr. El-Tawab Kamal
• Elasticity and Energy Stored in a wire.	6	8	
• Fluid Flow and Fundamental Laws of Fluid Mechanics.	6	8	
• Viscosity and Poiseuille's Law	3	4	
• Temperature and Heat Transfer.	7	8	
• Thermodynamics and the Kinetic Theory of Gases.	6	8	
• Simple Harmonic Motion.	4	0	
• Wave Motion and Energy Transmitted by Sinusoidal Waves.	6	0	
• Sound waves and Doppler's Effect.	6	0	
Total hours	54	46	

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: There was no time

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 a7	b1 to b3	c1 to c4	d1 to d3

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.El-Tawab Kamal, Prof. Dr. Abo el Yazeed B. Abo el Yazeed, Dr. Marwa Y. Shoeib and Dr. Nagat A. Elmahdy

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
(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 reason for any non-completion:

Actions required	Planned Completion date	Accomplishment
(a) Adding more assignments reports and quizzes.	September 2015	(a) More assignments were prepared.
(b) The department discussed the need for more advanced laboratory		(b) Three experiments are already added on September 2014.

experiences, especially in the area of Thermodynamics.		
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9- Action plan for academic year 2014– 2015

Actions required	Completion date	Person responsible
a) Adding more assignments reports and quizzes for Chapters 1 and 3 b) The need for more advanced laboratory experiences in the major.	September 2013	a) More assignments were prepared. b) One experiment is added on September 2013. One more is planned for May 2014

10- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
1. Adding more assignments reports and quizzes. 2. The department discussed the need for more advanced laboratory experiences, especially in the area of Thermodynamics.	September 2014	Prof. Dr. El-Tawab Kamal

Course coordinator: Dr. Nagat A. Elmahdy

Signature: *Dr. Nagat A. Elmahdy*

Date: February 15, 2014

Semester's Course Report Academic year: 2013 - 2014 Semester: Fall

A- Basic Information

- 1- **Course Code & Title:** (MNF101) Engineering Graphics
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Prog.
 3- **Year/Level of program:** Fresh
 4- **Credit hours**
 Credit 3 hrs Lectures 2 hrs Tutorial 6 hrs Practical hrs
 5- **Names of lecturers contributing to the delivery of the course:**
 Prof. Dr. Mamdouh Saber Elsayed
 Assist. Prof. Serag Eldin Khalifa
 6- **Course coordinator:** Prof. Dr. Mamdouh Saber Elsayed
 7- **External evaluator:** Non

B- Statistical Information

- 1- **No. of students attending the course:** **No.** **556** **100** **%**
 2- **No. of students completing the course:** **No.** **556** **100** **%**
 3- **Results:**

	No.	%
Passed	423	76.079
	133	23.921

Grading of successful students:		
Grade	No.	%
A	48	8.63
B	72	12.949
C	90	16.19
D	213	38.31

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Lecturer
Drawing instruments , Draw sheets ; Scales; Folding Lettering	1	6	Prof. Mamdouh Saber
Geometric Construction	1	6	
Alphabet of lines	1	6	
Theory of orthographic projection: Projection of point ; line and plane Projection of geometric solids	1	6	
Multi view drawing (of Vertical and Horizontal Surfaces)	1	6	
Multi view drawing (of inclined Surfaces)	1	6	
Multi view drawing (of cylindrical Surfaces)	1	6	
Pictorial drawing (isometric) , Pictorial drawing (oblique)	1	6	
Isometric drawing (of Vertical, Horizontal & inclined Surfaces)	1	6	
Isometric drawing (of cylindrical Surfaces)	1	6	
Conventional practice in ED	1	6	
Importance of drawing sections ; Basic types of sections: Full sections : longitudinal ,cross – section	1	6	
Off set ;Aligned sections; Half-section ;Partial S.; Revolved & Auxiliary sections.	1	6	

Dimensioning – Arrangements of dimensions – Rules for dimensions of circles ; radii ; angles ; plain holes	1	6	
Revision	1	6	
Total hours	15	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

2- Teaching and learning methods:

Lectures: Using OHP Black board /White board

Practical training /laboratory:

Seminar /Workshop: Drawing of several problems weekly using traditional methods and free hand sketches.

Class activity:

Case Study: Selected cases

Other assignments / homework: Weekly

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

3- Student assessment:

Method of assessment	Points	%
Written examination	60	60
Oral examination	0	0
Practical/laboratory work	0	0
Other assignments/class work	20	20
Mid-Term Exam	20	20
Total	100	100

Members of examination committee

Prof. Dr. Mamdouh Saber Elsayed

Assist. Prof. Serag Eldin Khalifa

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

None

7- Comments from external evaluator(s): Non

8- Course enhancement:

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

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

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
Non		
Course coordinator: Prof. Dr. Mamdouh Saber Elsayed		
Signature:		
Date: October 2014		

Semester's Course Report Academic year: 2013 - 2014 Semester: Spring

A- Basic Information

- 1- **Course Code & Title:** (MNF101) Engineering Graphics
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Prog.
 3- **Year/Level of program:** Fresh
 4- **Credit hours**
 Credit 3 hrs Lectures 2 hrs Tutorial 6 hrs Practical hrs
 5- **Names of lecturers contributing to the delivery of the course:**
 Prof. Dr. Mamdouh Saber Elsayed
 Assist. Prof. Serag Eldin Khalifa
Course coordinator: Prof. Dr. Mamdouh Saber Elsayed
External evaluator: Non

B- Statistical Information

No. of students attending the course:	No.	545	100	%
No. of students completing the course:	No.	545	100	%

Results:

	No.	%
Passed	426	78.165
Failed	119	21.835

Grading of successful students:		
Grade	No.	%
A	39	7.155
B	65	11.92
C	105	19.266
D	217	39.81

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Lecturer
Drawing instruments , Draw sheets ; Scales; Folding Lettering	1	6	Prof. Mamdouh Saber
Geometric Construction	1	6	
Alphabet of lines	1	6	
Theory of orthographic projection: Projection of point ; line and plane Projection of geometric solids	1	6	
Multi view drawing (of Vertical and Horizontal Surfaces)	1	6	
Multi view drawing (of inclined Surfaces)	1	6	
Multi view drawing (of cylindrical Surfaces)	1	6	
Pictorial drawing (isometric) , Pictorial drawing (oblique)	1	6	
Isometric drawing (of Vertical, Horizontal & inclined Surfaces)	1	6	
Isometric drawing (of cylindrical Surfaces)	1	6	
Conventional practice in ED	1	6	
Importance of drawing sections; Basic types of sections: Full sections : longitudinal ,cross – section	1	6	
Off set; Aligned sections; Half-section; Partial S.; Revolved & Auxiliary sections.	1	6	

Dimensioning – Arrangements of dimensions – Rules for dimensions of circles ; radii ; angles ; plain holes	1	6	
Revision	1	6	
Total hours	15	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

2- Teaching and learning methods:

Lectures: Using OHP Black board /White board

Practical training /laboratory:

Seminar /Workshop: Drawing of several problems weekly using traditional methods and free hand sketches.

Class activity:

Case Study: Selected cases

Other assignments / homework: Weekly

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

3- Student assessment:

Method of assessment	Points	%
Written examination	60	60
Oral examination	0	0
Practical/laboratory work	0	0
Other assignments/class work	20	20
Mid-Term Exam	20	20
Total	100	100

Members of examination committee

Prof. Dr. Mamdouh Saber Elsayed

Assist. Prof. Serag Eldin Khalifa

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

None

7- Comments from external evaluator(s): Non

8- Course enhancement:

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

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

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
Non		
Course coordinator:	Prof. Dr. Mamdouh Saber Elsayed	
Signature:		
Date:	October 2014	

Dimensioning – Arrangements of dimensions – Rules for dimensions of circles ; radii ; angles ; plain holes	1	6	
Revision	1	6	
Total hours	15	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

2- Teaching and learning methods:

Lectures: Using OHP Black board /White board

Practical training /laboratory:

Seminar /Workshop: Drawing of several problems weekly using traditional methods and free hand sketches.

Class activity:

Case Study: Selected cases

Other assignments / homework: Weekly

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

3- Student assessment:

Method of assessment	Points	%
Written examination	60	60
Oral examination	0	0
Practical/laboratory work	0	0
Other assignments/class work	20	20
Mid-Term Exam	20	20
Total	100	100

Members of examination committee Prof. Dr. Mamdouh Saber Elsayed

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

7- Comments from external evaluator(s): Non

8- Course enhancement:

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

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

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
Non		
Course coordinator:	Prof. Dr. Mamdouh Saber Elsayed	
Signature:		
Date:	October 2014	

Semester's Course Report Academic year 2013-2014

A- Basic Information

1- Course Code & Title: (CHE100) Chemistry

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
Architecture Engineering and Building Technology BSc Program

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

4- Credit hours

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

5- Names of lecturers contributing to the delivery of the course: Prof. Dr. Shaban Ragab Gouda

Course coordinator: Prof. Dr. Shaban Rageb Gouda

External evaluator: Non

B- Statistical Information

7- No. of students attending the course:

No.	1350	100	%
No.	1270	94.07	%

8- No. of students completing the course:

9- Results:

	No.	%
Passed	1200	94.48
Failed	70	5.51

Grading of successful students:		
Grade	No.	%
Excellent	254	20
Very Good	285	22.44
Good	293	23.07
Pass	377	29.68

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecturer
	Plan.	Actual	
• Gas law and gas liquefaction	6	6	Prof. Dr. Shaban Rageb
• Liquid state, refrigeration and heat pump.	6	6	
• Electrochemistry and metallic corrosion.	5	5	
• Solution and antifreezes	3	3	
• Thermo chemistry and solar heat.	3	3	
• Pollution	0	0	
• water treatment and distillation	14	14	
• polymer and industry	3	3	
• fuels and combustion	3	3	
• Chemistry and tech. of petroleum and new trends in energy resource.	2	2	
Total hours	45	45	

Topics taught as a percent 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 to a12	b1 to b7	c1 to c6	d1 to d5

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. Shaban Ragab 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): None

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
Add more experiments to chemistry Laboratory	December 2015	Two experiments are already added on September 2014. One more is planned for May 2015

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
adding more assignments reports and quizzes for Chapters 10 and 11	December 2015	Prof. Dr. Shaban Rageb

Course coordinator: Prof. Dr Shaban Rageb

Signature:

Date: September 2014

Semester's Course Report Academic year 2013-2014

A- Basic Information

1- **Course Code & Title:** (MEC 101) Mechanics

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
Architecture Engineering and Building Technology BSc Program

3- **Year/Level of program:** First Year/First Semester

4- **Credit hours**

Credit 2 hrs Lectures: 1 hrs Tutorial 3 hrs Practical

5- **Names of lecturers contributing to the delivery of the course:** Prof. Dr. Eng. Hassan Awad

Dr. Moamen Wafaie

Dr. Shymaa Lotfy

Course coordinator: Prof. Dr. Eng. Hassan Awad

External evaluator: Non

B- Statistical Information

No. of students attending the course:

No.	1214	100	%
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No. of students completing the course:

No.	1164	95.9	%
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Results:

	No.	%
Passed	863	74.1
Failed	301	25.9

Grading of successful students:		
Grade	No.	%
Excellent	75	6.4
Very Good	135	16.2
Good	429	20.9
Pass	224	30.6

C- Professional Information

1 – Course teaching

Topic		Lectures	Tutorial hours
1	Forces in plane	1	2
2	Component of a Force- Rectangular Component – Resultant	1	3
3	Force in space	2	6
4	Force defined by its magnitude and two points on its line of action	1	4
5	Moment of a force about a point	1	2
6	Rectangular Components of the moment of a Force	1	4
7	Moment of a fore about a specified axis- moment of a couple	1	4
8	Equivalent system – Resultants of a force and couple sys	2	4
9	Support reaction in plane	2	6
10	Support reaction in space	1	4
11	Trusses	2	6
Total hours		30	45

Topics taught as a percentage of the content specified:

More than 95 %

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 a5	b1 to b6	None	d1 to d3

2- Teaching and learning methods:

Lectures: Lecture, discussions, tutorials, problem solving
 Practical training/ laboratory:
 Seminar/Workshop:
 Class activity Numerical exercises; solution of problems
 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	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	15	15
Mid-Term Exam	15	15
Total	100	100

Members of examination committee: Prof. Dr. Eng. Hassan Awad, Dr. Moamen Wafaie and Dr. Shymaa Lotfy

Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	
Adequate to some extent	Yes
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
(a)	It is recommended to solve more examples in the exercises	Only a balanced proportion of numerical exercises are solved in the class, the rest are presented as 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

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

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
None	None	None

10- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
None	None	None

Course coordinator: Prof. Dr. Eng. Hassan Awad

Signature:

Date: September 24, 2014

Semester's Course Report Academic year 2013-2014

A- Basic Information

1- Course Code & Title: (GEN 141) قضايا اجتماعية معاصرة

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
Architecture Engineering and Building Technology BSc Program

3- Year/Level of program: First Semester

4- Credit hours

Credit 2 hrs Lectures 2 hrs Tutorial - Practical -

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

Dr. شيماء نبيه

Course coordinator:

Prof. Dr. Rashad Ahmed

External evaluator:

Non

B- Statistical Information

No. of students attending the course:

No. 1183 100 %

No. of students completing the course:

No. 858 72.53 %

Results:

	No.	%
Passed	822	96
Failed	36	4

Grading of successful students:		
Grade	No.	%
Excellent	442	54
Very Good	165	20
Good	160	19.5
Pass	55	6.7

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecturer
	Plan.	Actual	
الانتماء اهميته واصول المجتمع –العادات والتقاليد المرعية –المواطنه – العوامل المحفزه لحب الوطن (الحرية – احترام الرأي الاخر – عدم التمييز العنصري – الديمقراطية)			Prof. Dr. Rashad ahmed
النمو والتكامل الاقتصادي –المكونات الاجتماعية والاقتصادية للمجتمع – اساليب القيادة –اساليب ترشيد الموارد – الابتكار وتجديد الموارد – الحوافز الخاصة بافراد المجتمع – اساليب تقييم المشروعات)			
(بناء الاسرة – تكوين الاسرة – التنشئة الاجتماعية – النسق الاسري والانساق الاخرى – المؤسسات التقليدية والحديثة الخاصة بالاسرة)			
(مهارات العمل الجماعي – اهمية العمل الفرقي – الفارق بين العمل الجماعي والفرقي – كيفية اعداد القادة)			
Total hours			

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 a3	b1 to b3	-	d1 to d3

2- Teaching and learning methods:

Lectures:	Lecture, discussions, tutorials, problem solving and modeling
Practical training/ laboratory:	Non
Seminar/Workshop:	Lecture
Class activity	Non
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	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	30	30
Mid-Term Exam	Non	0
Total	100	100

Members of examination committee: Prof. Dr. Rashad ahmed

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)	يري بعض عدم اهمية لدراسة العلوم الانسانية في لطلاب كلية الهندسة	تخصيص اكثر من محاضرة لتوضيح اهمية دراسة العلوم الانسانية في الحياة العملية بجانب دراسة التخصص

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	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:

9- Action plan for academic year 2014– 2015

Actions required	Completion date	Person responsible
Non		

Course coordinator: Prof. Dr. Prof. Dr. Rashad Ahmed

Signature:

Date: September 1, 2014

Semester's Course Report Academic year 2013-2014

A- Basic Information

1- Course Code & Title: (GEN 143) تاريخ الهندسة والتكنولوجيا

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
Architecture Engineering and Building Technology BSc Program

3- Year/Level of program: First Semester

4- Credit hours

Credit 2 hrs Lectures 2 hrs Tutorial - Practical -

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

Dr. Amal Asran

Course coordinator:

Dr. Amal Asran

External evaluator:

Non

B- Statistical Information

10- No. of students attending the course:

No. 592 100 %

11- No. of students completing the course:

No. 550 92.90 %

12- Results:

	No.	%
Passed	530	96.36
Failed	20	3.64

Grading of successful students:		
Grade	No.	%
Excellent	170	30.91
Very Good	148	26.91
Good	132	24
Pass	80	14.54

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecturer
	Plan.	Actual	
العلم و الهندسة والتكنولوجيا	2		Dr. Amal Asran
الهندسة و البحث العلمي – منظومة البحث العلمي	2		
عناصر و متطلبات البحث العلمي	2		
الهندسة وخريطة البحث العلمي – مراحل البحث العلمي	2		
تاريخ الهندسة و التكنولوجيا في مختلف العصور	4		
نقل التكنولوجيا	2		
نشاطات العمل الهندسي و مسئوليات المهندس	2		
Total hours			

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 b4	-	d1 to d4

2- Teaching and learning methods:

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

Practical training/ laboratory: Non

Seminar/Workshop: Lecture

Class activity Non
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	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	30	30
Mid-Term Exam	Non	0
Total	100	100

Members of examination committee: Dr. Amal Asran
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)	يري بعض عدم اهمية لدراسة العلوم الانسانية في لطلاب كلية الهندسة	تخصيص اكثر من محاضرة لتوضيح اهمية دراسة العلوم الانسانية في الحياة العملية بجانب دراسة التخصص
(b)	يري بعض الطلاب اضافة بعض الموضوعات التي تناسب تخصصهم ودراساتهم للهندسة	تخصيص محاضرتين يعرض فيها الطلبة بعض المهارات التي تساعد في الحياة العملية مثل العمل الفردي او الاقناع

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	Non

8- Written Exam Evaluation

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:

10- Action plan for academic year 2014– 2015

Actions required	Completion date	Person responsible
Non		

Course coordinator: Dr. Amal Asran

Signature:

Date: September 1, 2014

Semester's Course Report Academic year 2013-2014

A- Basic Information

1- **Course Code & Title:** (MTH 102) Integration and Analytic Geometry

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
Architecture Engineering and Building Technology BSc Program

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

4- **Credit hours**

Credit 3 hrs Lectures: 2 hrs Tutorial 3 hrs Practical

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

Assist Prof. Osama El Gayar
Dr. Sabry Abd El-Aziz
Dr. Nabila El Sawy
Dr. Sabry Abd El Aziz
Non

Course coordinator:

External evaluator:

B- Statistical Information

13- **No. of students attending the course:**

No. **1219** **100** **%**

14- **No. of students completing the course:**

No. **1181** **96.88** **%**

15- **Results:**

	No.	%
Passed	977	82.73
Failed	204	17.27

Grading of successful students:		
Grade	No.	%
Excellent	277	23.45
Very Good	224	18.97
Good	192	16.26
Pass	284	24.05

C- Professional Information

1 – Course teaching

Topic		Lecture hours	Actual hours	Tutorial hours
1	Anti-derivative, indefinite integral	2	2	2
2	Definite integrals and the fundamental theorem of calculus	2	2	3
3	Methods of integration (integration by parts, substitution)	4	3	6
4	Integration of trigonometric functions	2	2	4
5	Trigonometric Substitutions	2	2	2
6	Integration of rational functions	2	2	4
7	Miscellaneous Substitutions, improper integrals	2	2	4
8	Application of definite integral (area, volume, arc length, surface area)	3	3	4
9	Sequences, series	4	3	6
10	Equations of lines, planes and circles	3	3	4
11	Conic sections (parabola, ellipse, hyperbola)	4	3	6
Total hours		30	27	45

Topics taught as a percentage of the content specified:

More than 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 a1 to a5	Intellectual skills b1 to b6	Applied Skills c1	General transferable skills d1 to d3
---------------------------------------	---------------------------------	----------------------	---

2- Teaching and learning methods:

Lectures: Lecture, discussions, tutorials, problem solving
 Practical training/ laboratory:
 Seminar/Workshop:
 Class activity: Numerical exercises; solution of problems
 Case Study: Selected case studies
 Other assignments/homework: 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	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	15	15
Mid-Term Exam	15	15
Total	100	100

Members of examination committee: Prof. Dr. Osama and Dr. Sabry

Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	
Adequate to some extent	Yes
Inadequate	

List any inadequacies: Non

5- Administrative constraints (List any difficulties encountered)

➤ Non

6- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	it is recommended to solve more examples in the exercises	Only a balanced proportion of numerical exercises are solved in the class, the rest are presented as 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

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 2014 – 2015

Actions required	Completion date	Person responsible
Adding more exercises, assignments reports and quizzes	December 2014	Dr. Sabry

Course coordinator: Dr Sabry Abd El Aziz

Signature:

Date: October 2014

Semester's Course Report Academic year 2013-2014

A- Basic Information

1- Course Code & Title: (PHY 102) Physics

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
Architecture Engineering and Building Technology BSc Program

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

4- Credit hours

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

5- Names of lecturers contributing to the delivery of the course: Dr. El-Tawab Kamal

Dr. Abo el Yazeed B. Abo el Yazeed

Dr. Marwa Y. Shoeib

Dr. Nagat A. Elmahdy

6- Course coordinator: Dr. El-Tawab Kamal

7- External evaluator: Non

B- Statistical Information

No. of students attending the course:

No.	1030	100	%
-----	------	-----	---

No. of students completing the course:

No.	1030	100	%
-----	------	-----	---

Results:

	No.	%
Passed	913	88.64
Failed	117	11.35

Grading of successful students:		
Grade	No.	%
Excellent	50	5.47
Very Good	165	18.07
Good	230	25.19
Pass	468	51.26

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecturer
	Plan.	Actual	
• Charge and Matter, The Electric Field, Gauss' law	10	12	Dr. El-Tawab Kamal
• Gauss's law applications	4	8	
• Electric Potential	6	6	
• Capacitors and Dielectric	4	6	
• Current and Resistance, Electromotive force and Circuits	8	8	
• Ampere's law, Inductance	6	6	
• Magnetic Properties of matter	4	0	
• Electromagnetic Waves, Physical Optics, Polarization of light	4	0	
• Interference of light, Diffraction of light	6	0	
• Diffraction of light, Some applications	2	0	
Total hours	54	46	

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: There was no time

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

Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding a1 to a7	Intellectual skills b1 to b3	Applied Skills c1 to c4	General transferable skills d1 to d3
---------------------------------------	---------------------------------	----------------------------	---

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: Dr.El-Tawab Kamal, Prof. Dr. Abo el Yazeed B. Abo el Yazeed, Dr. Marwa Y. Shoeib and Dr. Nagat A. Elmahdy

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
Add more experiments to Physics Laboratory	December 2014	Four experiments are already added on September 2014. One more is planned for May 2015

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
1. adding more assignments reports and quizzes for Chapters 10 and 11	December 2014	Prof. Dr. El-Tawab Kamal

Course coordinator: Dr El-Tawab Kamal

Signature:

Date: September 2014

Semester's Course Report

Academic year 2013-2014

A- Basic Information

- 1- Course Code & Title: **Mechanics-2 MEC 102**
- 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
 Architecture Engineering and Building Technology BSc Program
- 3- Year/Level of program: second Semester
- 4- Credit hours
 Credit 2 hrs Lectures 1 hrs Tutorial 3 - Practical -
- 5- Names of lecturers contributing to the delivery of the course: Prof.Dr.Eng. Hassan Awad
 Dr. Moamen Wafaie Dr. Shymaa Lotfy
- 6- Course coordinator: Prof.Dr. Hassan Awad
- 7- External evaluator: Non

B- Statistical Information

No. of students attending the course:	No.	1164	100	%
No. of students completing the course:	No.	1106	95	%

Results:

	No.	%
Passed	915	82.7
Failed	191	17.3

Grading of successful students:		
Grade	No.	%
Excellent	68	6.2
Very Good	185	16.7
Good	295	26.6
Pass	367	33.2

C- Professional Information

1 - Course teaching

Topic	Lecture hours	Tutorial hours
➤ Rectilinear Motion of particles.	1	4
➤ Determination of the motion of a particle.	1	4
➤ Graphical Solution of Rectilinear Motion.	1	4
➤ Curvilinear Motion of particle, Free Flight Motion.	2	4
➤ Curvilinear Motion of particle:	2	4
➤ Normal and Tangent.	1	4
➤ Plane Curvilinear Motion.	1	4
➤ Polar Coordinates.	1	4
➤ Kinetics of Particles, Force and acceleration.	2	4
➤ Kinetics of Particles Energy and Momentum Methods	2	4
➤ Motion under a conservative central force.	1	4
➤ Principle of Impulse and Momentum for particle.	2	5
Total hours	15	45

Topics taught as a percentage of the content specified:

>90 % 100 70-90 % <70%

Reasons in detail for not teaching any topic Non

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

Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a5	b1 to b2	c1 to c3	d1 to d2

2- Teaching and learning methods:

Lectures:	Lecture, discussions, problem solving and modeling
Practical training/ laboratory:	Non
Seminar/Workshop:	Lecture
Class activity	Non.
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	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	20	20
Mid-Term Exam	10	10
Total	100	100

Members of examination committee: Prof.Dr. Hassan Awad

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- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	Non

7- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	It is recommended to solve more examples in the exercises	Only a balanced proportion of numerical exercises are solved in the class, the rest are presented as 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.

8- Written Exam Evaluation

- Low success percentage in question 4 of the final written exam implies the need to revise the teaching and learning activity of the control system stability analysis and design of convenient controller, by adding more exercises, assignments reports and quizzes.

8- 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: Non

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible

- The whole exam result shows considerable weakness in report writing and English language level.

Course coordinator: Prof. Dr . Hassan Awad

Signature:

Date: December 2014

Semester's Course Report

Academic year: 2013 - 2014

Semester: Fall

A- Basic Information

- 1- **Course Code & Title:** (MNF102) Principles of Production Engineering
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Prog.
 3- **Year/Level of program:** Fresh
 4- **Credit hours**
 Credit 3 hrs Lectures 2 hrs Tutorial hrs Practical 4hr
 5- **Names of lecturers contributing to the delivery of the course:** Prof. Dr. Ahmed Kohail
 Dr. Maher Khalifa
 6- **Course coordinator:** Dr. Maher Khalifa
 7- **External evaluator:** Non

B- Statistical Information

- 1- **No. of students attending the course:** No. 586 100 %
 2- **No. of students completing the course:** No. 586 100 %
 3- **Results:**

	No.	%
Passed	507	85.52
Failed	79	13.48

Grading of successful students:		
Grade	No.	%
A	43	7.33
B	67	11.43
C	136	23.2
D	261	44.54

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
Role of production engineering, production system objective, types of industries, classification of manufacturing processes	2		
Properties of materials and testing principles	2		4
Sand casting, melting of metal & furnaces. Solidification, pattern allowances, sand molding & gating system. Die casting, centrifugal & investment casting.	2		8
Types of welding, oxy- acetylene welding, electric- arc welding, submerged arc welding, MIG, TIG, resistance welding, soldering & brazing	2		8
Hot & cold forming, rolling, extrusion, wire drawing & sheet metal forming	3		10
Metal cutting processes (Turning, milling, shaping grinding and drilling)	4		30
Total hours	15		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, all of the missed teaching hours were substituted

2- Teaching and learning methods:

Lecture: Bi-weekly lecture

Practical training/ laboratory: weekly Practical Training

Seminar/Workshop:

Class activity:

Case Study:

Other assignments/homework: assignments

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

3- Student assessment:

Method of assessment	Points	%
Written examination	60	60
Oral examination	0	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. Ahmed Kohail & Dr. Maher Khalifa

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:

58%

Response of course team

Non

List any criticisms

Non

7- Comments from external evaluator(s):

Response of course team Non

8- Course enhancement:

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

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

9- Action plan for academic year 2014 – 2015

Actions required

Completion date

Person responsible

Non

Course coordinator: Dr. Maher Khalifa

Signature:

Date: October 2014

Semester's Course Report Academic year: 2013 - 2014 Semester: Spring

A- Basic Information

- 1- **Course Code & Title:** (MNF102) Principles of Production Engineering
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Program
 3- **Year/Level of program:** Fresh
 4- **Credit hours**
 Credit 3 hrs Lectures 2 hrs Tutorial hrs Practical 2 hr
 5- **Names of lecturers contributing to the delivery of the course:**
 Prof. Dr. Ahmed Kohail
 Dr. Maher Khalifa
 6- **Course coordinator:** Dr. Maher Khalifa
 7- **External evaluator:** Non

B- Statistical Information

No. of students attending the course:	No.	519	100	%
No. of students completing the course:	No.	519	100	%

Results:

	No.	%
Passed	456	87.86
Failed	63	12.14

Grading of successful students:		
Grade	No.	%
A	52	10.019
B	96	18.497
C	125	24.08
D	183	35.26

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
Role of production engineering, production system objective, types of industries, classification of manufacturing processes	2		
Properties of materials and testing principles	2		4
Sand casting, melting of metal & furnaces. Solidification, pattern allowances, sand molding & gating system. Die casting, centrifugal & investment casting.	2		8
Types of welding, oxy- acetylene welding, electric- arc welding, submerged arc welding, MIG, TIG, resistance welding, soldering & brazing	2		8
Hot & cold forming, rolling, extrusion, wire drawing & sheet metal forming	3		10
Metal cutting processes (Turning, milling, shaping grinding and drilling)	4		30
Total hours	15		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, all of the missed teaching hours were substituted

2- Teaching and learning methods:

- **Course notes** (MNF102- Lecture & Workshop Parts) Principles of Production Engineering, Prof. Dr. Ahmed Kohail, Modern Academy
- **Required books**
- **Recommended books:** Philip F. Ostwald and Jario Munoz, "Manufacturing Processes and systems ", John Welley & Sons, 2000
- **Periodicals, Web sites, etc.:**

Practical training/ laboratory: weekly Practical Training

Seminar/Workshop:

Class activity:

Case Study:

Other assignments/homework: assignments

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

3- Student assessment:

Method of assessment	Points	%
Written examination	60	60
Oral examination	0	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. Ahmed Kohail & Dr. Maher Khalifa

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: 58%

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: No previous comments

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

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
Non		

Course coordinator: Dr. Maher Khalifa

Signature:

Date: September 2014

Semester's Course Report (Academic Year 2013-2014) Fall Semester

A- Basic Information

- 1- **Title and code:** Program Design and Computer Languages (CMP 110)
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Prog.
 Electronic Eng. & Comm. Tech. BSc Prog.
 Computer Eng. & Inf. Tech. BSc Prog.
 Architecture Eng. & Building Tech. BSc Prog.
 3- **Year/Level of program:** Freshman
 4- **Unit hours:** 4 Lectures Tutorial Practical Total
 5- **Names of lecturers contributing to the delivery of the course:** Dr. Ehab ElShimee
Course coordinator: Dr. Ehab ElShimee

B- Statistical Information

No. of students attending the course	No. <input type="text" value="593"/>	100%
No. of students completing the course	No. <input type="text" value="593"/>	100%

	No.	%
Passed	553	93.25
Failed	40	6.75

	No.	%
A+	23	3.879
A	56	9.444
A-	60	10.118
B+	72	12.142
B	74	12.479
C+	77	12.985
C	80	13.491
D+	52	8.769
D	34	5.734
D-	25	4.216

C- Professional Information

1- Course Teaching:

Topic	Lecture hours	Lecture
➤ Steps for solving programs by computer programs	2	Dr. Ehab Elsheme
➤ Program documentation and flow charts	2	
➤ Program structure in C++	1	
➤ Data types and declaration in C++	2	
➤ Input/output in C++ and I/O stream class	1	
➤ I/O manipulation	1	
➤ Operators and precedence in C++	2	
➤ Decision (Selection) Constructs in C++	2	
➤ Loops (Iterations) in C++	2	
➤ Arrays, Pointers, References, and dynamic allocation	2	
➤ Functions in C++, calling functions (by value, by reference)	2	
➤ Structures, Unions, Enumeration, and user-defined data types	2	
➤ Abstract data types (ADT)	1	

➤ Concepts and Terminologies of Object-Oriented Programming (OOP)	2	
➤ Classes and objects	2	
➤ Constructors, destructors, friend functions	1	
➤ Polymorphism, encapsulation, inheritance	1	
➤ File I/O, I/O stream, strings, recursion	2	
Total hours	30	

Percentage of the content specified:

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

Reasons in detail for not teaching any topic None

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

2- Teaching and learning methods:

Lectures:

Practical training/ laboratory:

Seminar/Workshop:

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

Case Study:

Other assignments/homework:

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

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

Written examination

Practical examination

Other assignments/class work

Mid-Term Exam

Total

Members of examination committee Dr. Ehab Elshimee

Role of external evaluator None

4- Facilities and teaching materials:

Dictionaries, Tape recorders....etc

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies None

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

List any criticisms None

Questionnaire Good

7- Comments from external evaluator(s): None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: updating the program software
Action State whether or not completed and give reasons for any none-completion upgrading the computers of the labs

9- Action plan for academic year 2014 – 2015

Adding data show in the computer lab
increasing exercises and number of application programs

Since it's a public speaking course that required the student to combine both oral and written knowledge with this course gives practical advice of different modes of communication including formal CV writing body language, leadership, negotiate, some of the course soft skills so after the instructor finish his lecture a little group of student (5-12) will present for what they have well prepared they will also prepare for a technical report individual CV and biography for company, factory or whatever project they for after graduate.

There last three tasks will have dead time determined by two instructors to give the marks
All the rules and policies already left in the library for student to copy it but next year will be put in the lecture notes.

Course coordinator: Dr. Ehab Elshimee

Signature:

Date: August 2014

Semester's Course Report Academic year 2013-2014

A- Basic Information

- 1- **Course Code & Title:** GEN 142 English Language
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Program
 Electronic Eng. and Comm. Tech. BSc Program
 Computer Eng. and Inf. Tech. BSc Program
 Architecture Eng. and Building Tech. BSc Program
- 3- **Year/Level of program:** 1st Year/Second Semester
 4- **Credit hours**
 Credit 2 hrs Lectures 2 hrs Tutorial Practical
- 5- **Course coordinator:** Dr. Neveen Samir
 6- **External evaluator:** Non

B- Statistical Information

No. of students attending the course:	No.	420	100	%
No. of students completing the course:	No.	420	100	%

Results:

	No.	%
Passed	365	87
Failed	55	13

Grading of successful students:		
Grade	No.	%
Excellent	20	4.76
Very Good	33	7.86
Good	150	35.7
Pass	162	38.6

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
Computer Hackers	2		
At the Doctor's Reviewing tenses Reading	2		
At the Doctor's (to be continued) Grammar: perfect tenses& prefixes	2		
Global Warming Reading Speaking : English communication skills Suffixes & adj.&adv.	2		
Computer Addiction Reading: 53-55 Seaking: discussing the topic Grammar: adjectives	2		
Earthquake Reading: 59-61 Grammar: Suffixes	2		
Words and their Stories Reading Grammar: wh-questions and negatives	2		
Revision 7 th week Exam	2		

Describing People & Things Reading : Grammar: adj. & adv	2		
Describing People & Things (to be continued) Reading : Grammar : relative clauses	2		
Qualities and Flaws Speak: discussing qualities and flaws of each one (pair work) Grammar: Possession Pronouns+ Adjectives	2		
Qualities and Flaws (to be continued) List. & Speak: discussing the topic	2		
People Idioms Grammar: gerund & to infinitive & adjectives with prepositions	2		
English proverbs Grammar: problem verbs	2		
Revision	2		
Total hours	30		

Topics taught as a percentage of the content specified: >90 %
Reasons in detail for not teaching any topic: Non
If any topics were taught which are not specified, give reasons in detail: Non
Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding A9 , A10	Intellectual skills C11 , C12	Applied Skills B4	General transferable skills D1 to D8
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2- Teaching and learning methods:

Lectures: Lecture, discussions, doing exercises,
Practical training/ laboratory: Non
Seminar/Workshop: Non
Class activity: Doing exercises (pair work & group work)
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	70	70
Oral examination	Non	0
Practical/laboratory work	-	-
Other assignments/class work	15	15
Mid-Term Exam	15	15
Total	100	100

Members of examination committee: Dr. Neveen Samir
Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	
Adequate to some extent	Yes
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
(a)	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

- The exam level is convenient, considering the percentage of success.

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	NON	NON

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
NON	NON	NON

Course coordinator: Dr Neveen

Signature:

Date: September 2014

Semester's Course Report Academic year: 2013 - 2014 Semester: Fall

A- Basic Information

- 1- **Course Code & Title:** (MNF100) Introduction to Engineering Materials
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Prog.
 3- **Year/Level of program:** : Freshman
 4- **Credit hours**
 Credit 1 hrs Lectures 1 hrs Tutorial 0 hrs Practical 0 hr
 5- **Names of lecturers contributing to the delivery of the course:** Prof. Dr. Adel El-Gamal
 Dr. Reham Reda
 6- **Course coordinator:** Dr. Reham Reda
 7- **External evaluator:** Non

B- Statistical Information

No. of students attending the course:	No.	584	100	%
No. of students completing the course:	No.	584	100	%

Results:

	No.	%
Passed	437	74.83
Failed	147	25.17

Grading of successful students:		
Grade	No.	%
A	16	2.74
B	41	7.02
C	78	13.35
D	302	51.7

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1- Introduction	1		
• Types of engineering materials			
• Properties of materials, material testing principles	3		
2- Ferrous alloys and their properties			
2-1 Steel; types and uses			
2-2 Cast iron; types and uses	8		
3- Non-ferrous alloys and their properties			
3-1 Copper and its alloys			
3-2 Aluminum and its alloys	3		
4- Other engineering alloys			
5- Selection of Materials			
Total hours	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, all of the missed teaching hours were substituted, in addition to the seminars arranged during the students free day.

2- Teaching and learning methods:

Lecture: Bi-Weekly Lecture

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: None

3- Student assessment:

Assessment Method	Timing	Grade (Degrees)
Semester Work: seminars, quizzes assignments and reports	Bi-Weekly	20
Mid-Term Exam	8-th Week	10
Written Exam	Sixteenth week	70
Total		100

Members of examination committee

Dr. Adel El-Gamal & Dr. Reham Reda

Role of external evaluator

Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course:

90 %

Response of course team

Non

List any criticisms

Non

7- Comments from external evaluator(s):

Response of course team Non

8- Course enhancement:

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

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

9- Action plan for academic year 2014 – 2015

Actions required

Completion date

Person responsible

Non

Course coordinator: Assist. Prof. Adel Elgammal

Signature:

Date: September 2014

Semester's Course Report Academic year: 2013 - 2014 Semester: Spring

A- Basic Information

- 1- **Course Code & Title:** (MNF100) Introduction to Engineering Materials
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Prog.
 3- **Year/Level of program:** : Freshman
 4- **Credit hours**
 Credit 1 hrs Lectures 1 hrs Tutorial 0 hrs Practical 0 hr
 5- **Names of lecturers contributing to the delivery of the course:** Assist. Prof. Adel El-Gamal
 Dr. Tarek Madboly
 6- **Course coordinator:** Assist. Prof. Adel El-Gamal
 7- **External evaluator:** Non

B- Statistical Information

No. of students attending the course:	No.	543	100	%
No. of students completing the course:	No.	543	100	%

Results:

	No.	%
Passed	506	93.19
Failed	37	6.81

Grading of successful students:		
Grade	No.	%
A	181	33.33
B	143	26.33
C	106	19.52
D	76	13.99

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1- Introduction	1		
• Types of engineering materials			
• Properties of materials, material testing principles	3		
2- Ferrous alloys and their properties			
2-1 Steel; types and uses			
2-2 Cast iron; types and uses	8		
3- Non-ferrous alloys and their properties			
3-1 Copper and its alloys			
3-2 Aluminum and its alloys	3		
4- Other engineering alloys			
5- Selection of Materials			
Total hours	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, all of the missed teaching hours were substituted, in addition to the seminars arranged during the student's free day.

2- Teaching and learning methods:

Lecture: Bi-Weekly Lecture

Practical training/ laboratory:

Seminar/Workshop:

Class activity:

Case Study:

Other assignments/homework:

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

3- Student assessment:

Assessment Method	Timing	Grade (Degrees)
Semester Work: seminars, quizzes assignments and reports	Bi-Weekly	20
Mid-Term Exam	8-th Week	10
Written Exam	Sixteenth week	70
Total		100

Members of examination committee Assist. Prof. Adel El-Gamal & Dr. Tarek Madboly

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course:

90 %

Response of course team

Non

List any criticisms

Non

7- Comments from external evaluator(s):

Response of course team Non

8- Course enhancement:

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

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

9- Action plan for academic year 2014 – 2015

Actions required

Completion date

Person responsible

Non

Course coordinator: Assist. Prof. Adel El-Gamal

Signature:

Date: September 2014

Semester's Course Report Academic year: 2013 - 2014 Semester: Summer

A-Basic Information

- 1- **Course Code & Title:** (MNF100) Introduction to Engineering Materials
- 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Prog.
- 3- **Year/Level of program:** : Freshman
- 4- **Credit hours: 3**
 Credit 1 hrs Lectures 1 hrs Tutorial 0 hrs Practical 0 hr
- 5- **Names of lecturers contributing to the delivery of the course:** Prof. Dr. Adel Algamal
 Dr Nasr Aref
- 6- **Course coordinator:** Dr Nasr Aref
- 7- **External evaluator:** Non

B- Statistical Information

No. of students attending the course:	No.	39	100	%
No. of students completing the course:	No.	39	100	%

Results:

	No.	%
Passed	36	92.3
Failed	3	7.7

Grading of successful students:		
Grade	No.	%
A	1	2.56
B	3	7.7
C	20	51.3
D	12	30.77

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Lecturer
1- Introduction	1	Dr. Nasr Aref
• Types of engineering materials		
• Properties of materials, material testing principles		
2- Ferrous alloys and their properties	3	
2-1 Steel; types and uses		
2-2 Cast iron; types and uses		
3- Non-ferrous alloys and their properties	8	
3-1 Copper and its alloys		
3-2 Aluminum and its alloys		
4- Other engineering alloys		
5- Selection of Materials	3	
Total hours	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, all of the missed teaching hours were substituted, in addition to the seminars arranged during the student's free day.

2- Teaching and learning methods:

Lectures: Bi-weekly Lecture

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: None

3- Student assessment:

Assessment Method	Timing	Grade (Degrees)
Semester Work: seminars, quizzes assignments and reports	Bi-Weekly	20
Mid-Term Exam	8-th Week	20
Written Exam	Sixteenth week	60
Total		100

Members of examination committee

Dr. Ibrahim Mousa & Dr. Nasr Aref

Role of external evaluator

Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered

None

6- Student evaluation of the course:

90 %

Response of course team

Non

List any criticisms

Non

7- Comments from external evaluator(s):

Non

8- Course enhancement:

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

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

9- Action plan for academic year 2014– 2015

Actions required

Completion date

Person responsible

Non

Course coordinator: Dr. Nasr Aref

Signature:

Date: September 2014

2014/2015

Sophomore, Third Semester

Code	Course
MTH 203	Math-3 (Differential Equations and Transforms)
MNF 211	Mechanics of materials
MNF 212	Fundamentals of materials Science
MNF 213	Mechanics of Machines-1
GEN 241	Presentation Skills
MNF 214	Machine Drawing-1

Sophomore, Fourth Semester

Code	Course
MTH 207	Math-7 (Numerical Analysis)
MNF 215	Mechanics of Machines-2
MNF 222	Materials Technology and Testing
MNF 221	Metal Cutting Processes
GEN 242	Technical Report Writing
MNF 216	Machine Drawing-2

Semester's Course Report Academic year 2014-2015

A- Basic Information

1- **Course Code & Title:** (MTH 203) Mathematics -3(Differential Equations and Transforms)

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:** Sophomore

4- **Credit hours**

Credit 3 hrs Lectures: 2 hrs Tutorial 3 hrs Practical

4- **Names of lecturers contributing to the delivery of the course:** Prof. Dr. Aly Essawi
Dr. Ashraf Taha

6- **Course coordinator:** Prof. Dr. Aly Essawi

7- **External evaluator:** Non

B- Statistical Information

No. of students attending the course:

No.	662	100	%
No.	662	100	%

No. of students completing the course:

Results:

	No.	%
Passed	593	89.58
Failed	69	10.88

Grading of successful students:		
Grade	No.	%
Excellent	128	19.34
Very Good	118	17.82
Good	142	21.45
Pass	205	30.97

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
➤ Definitions, order, degree.	1	1	—
➤ 1 st order differential equations, 2 nd order and n th order differential equations with constant coefficients.	6	10	—
➤ Non homogeneous D.E., undetermined coefficient method.	6	10	—
➤ Variation of parameters, Euler equations, piratical D.E.	3	4	—
➤ Laplace transform, 1 st and 2 nd shifting theorem.	4	6	—
➤ Laplace transforms of derivative and integrals, inverse Laplace transforms, convolution, applications.	4	6	—
➤ Fourier series, half rang expansion, Legendre and Bessel functions.	6	8	—
Total hours	30	45	—

Topics taught as a percentage of the content specified:

More than 95 %

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 a7	b1 to b4	c1 to c3	d1 to d2

2- Teaching and learning methods:

Lectures: Lecture, discussions, tutorials, problem solving

Practical training/ laboratory:

Seminar/Workshop:

Class activity

Solution of problems

Case Study:

Selected case studies

Other assignments/homework:

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	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	15	15
Mid-Term Exam	15	15
Total	100	100

Members of examination committee: Prof. Dr. Aly Essawi and Dr. Ashraf Taha

Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	
Adequate to some extent	Yes
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
(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

- Low success percentage in question 2 of the final written exam implies the need to revise the teaching and learning activity of the methods of solution for the second and higher differential equations, by adding more exercises.

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
None	None	None

9- Action plan for academic year 2015 – 2016

Actions required	Completion date	Person responsible
None	None	None

Course coordinator: Prof. Dr. Aly Essawi

Signature:

Date: October 1, 2015

Annual Course Report Academic year 2014-2015 “Fall”

A- Basic Information

- 1- Title and code: (MNF 211) Mechanics of Material
 2- Program(s) on which this course is given: Manufacturing Eng. & Production Tech. BSc. Prog.
 1-Year/Level of program: Sophomore/Semester 3
 2- Credit hours: 3 Lectures Tutorial Total
 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. %
 No. of students completing the course: No. %

Results:

	No.	%
Passed	107	64.85
Failed	58	35.15

Grading of successful students:

	No.	%
Excellent(A+,A,A-)	11	6.66
V. Good (B+,B,B-)	21	12.72
Good (C+,C,C-)	27	16.36
Pass (D+,D,D-)	48	29.11

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 % 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:

Seminar/Workshop:

Class activity: Numerical exercises; solution of problems .

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	<input type="text" value="70 %"/>
Oral examination	----
Practical/laboratory work	----
Other assignments/class work	<input type="text" value="20 %"/>
Mid-Term Exam	<input type="text" value="10 %"/>
Total	100 %
Members of examination committee	Prof. Dr. Ahmed El-Sanabary
Role of external evaluator	Non

4- Facilities and teaching materials:

Totally adequate	<input type="text" value="Yes"/>
Adequate to some extent	<input type="text" value="....."/>
Inadequate	<input type="text" value="....."/>
List any inadequacies:	Non

5- Administrative constraints: None

6- Student evaluation of the course: None

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

8- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment
Non	Non	Non

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

9- Action plan for academic year 2015 – 2016

Actions required	Completion date	Person responsible
Non	Non	Non

Course coordinator: Prof. Dr Ahmed El-Sanabary

Signature:

Date: 01/10/2015

Annual Course Report Academic year 2014-2015 "Fall"

A- Basic Information

- 1- Title and code: (MNF 211) Mechanics of Material
- 2- Program(s) on which this course is given: Manufacturing Eng. & Production Tech. BSc. Prog.
- 3- Year/Level of program: Sophomore/Semester 3
- 4- Credit hours: 3 Lectures Tutorial Total
- 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. %
 No. of students completing the course: No. %

Results:

	No.	%
Passed	33	55
Failed	27	45

Grading of successful students:

	No.	%
Excellent(A+,A,A-)	1	1.67
V. Good (B+,B,B-)	2	3.33
Good (C+,C,C-)	9	15
Pass (D+,D,D-)	21	35

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 % 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:

Seminar/Workshop:

Class activity: Numerical exercises; solution of problems .

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	<input type="text" value="70 %"/>
Oral examination	----
Practical/laboratory work	----
Other assignments/class work	<input type="text" value="20 %"/>
Mid-Term Exam	<input type="text" value="10 %"/>
Total	100 %
Members of examination committee	Prof. Dr. Ahmed El-Sanabary
Role of external evaluator	Non

4- Facilities and teaching materials:

Totally adequate	<input type="text" value="Yes"/>
Adequate to some extent	<input type="text" value="....."/>
Inadequate	<input type="text" value="....."/>
List any inadequacies:	Non

5- Administrative constraints: None

6- Student evaluation of the course: None

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

8- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment
Non	Non	Non

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

9- Action plan for academic year 2015 – 2016

Actions required	Completion date	Person responsible
Non	Non	Non

Course coordinator: Prof. Dr. Ahmed El-Sanabary

Signature:

Date: 1/10/2015

Semester's Course Report Academic year: 2014 - 2015 Semester: Fall

A- Basic Information

- 1- **Course Code & Title:** (MNF212) Fundamentals of Materials Science
- 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Prog.
- 3- **Year/Level of program:** Junior
- 4- **Credit hours**
Credit 3 hrs Lectures 2 hrs Tutorial 1 hrs Practical 2 hr
- 5- **Names of lecturers contributing to the delivery of the course:** Prof. Dr. Adel Algamal
Dr. Nasr Aref
- 6- **Course coordinator:** Dr Nasr Aref
- 7- **External evaluator:** Non

B- Statistical Information

No. of students attending the course:	No.	152	100	%
No. of students completing the course:	No.	152	100	%

Results:

	No.	%
Passed	137	90
Failed	15	10

Grading of successful students:		
Grade	No.	%
A	16	11.679
B	21	15.328
C	32	23.358
D	68	49.635

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Practical hours	Tutorial hours
➤ Introduction	2	2	1
➤ Atomic structure	2	2	1
➤ Structure of crystalline materials.	2	2	1
➤ Imperfections in solids	2	2	1
➤ Strengthening mechanisms	4	4	2
➤ Mechanical properties of materials	6	6	3
➤ Electrical properties of materials	4	4	2
➤ Thermal properties of materials	4	4	2
➤ Optical properties of materials	2	2	1
➤ Magnetic properties of materials	2	2	1
Total hours	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 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 student's free day.

2- Teaching and learning methods:

Lecture: Weekly Lecture

Practical training/ laboratory: Weekly laboratory

Seminar/Workshop:

Class activity:

Case Study:

Other assignments/homework:

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

3- Student assessment:

Method of assessment	Points	%
Written examination	60	60
Oral examination	0	0
Practical/laboratory work	20	20
Other assignments/class work	10	10
Mid-Term Exam	10	10
Total	100	100

Members of examination committee

Dr. Adel El-Gamal & Dr Nasr Aref

Role of external evaluator

Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered:

None

6- Student evaluation of the course:

78%

Response of course team

Non

List any criticisms

Non

7- Comments from external evaluator(s):

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. Nasr Aref

Signature:

Date: 28/9/2015

Semester's Course Report Academic year: 2014 - 2015 Semester: Spring

A- Basic Information

- 1- **Course Code & Title:** (MNF212) Fundamentals of Materials Science
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Prog.
 3- **Year/Level of program:** Junior
 4- **Credit hours**
 Credit 3 hrs Lectures 2 hrs Tutorial 1 hrs Practical 2 hr
 5- **Names of lecturers contributing to the delivery of the course:**
 Prof. Dr. Adel Algamal
 Dr. Nasr Aref
 6- **Course coordinator:** Dr Nasr Aref
 7- **External evaluator:** Non

B- Statistical Information

No. of students attending the course:	No.	31	100	%
No. of students completing the course:	No.	31	100	%

Results:

	No.	%
Passed	21	67.742
Failed	10	32.258

Grading of successful students:		
Grade	No.	%
A	3	14.286
B	4	19.048
C	5	23.810
D	9	42.856

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Practical hours	Tutorial hours
➤ Introduction	2	2	1
➤ Atomic structure	2	2	1
➤ Structure of crystalline materials.	2	2	1
➤ Imperfections in solids	2	2	1
➤ Strengthening mechanisms	4	4	2
➤ Mechanical properties of materials	6	6	3
➤ Electrical properties of materials	4	4	2
➤ Thermal properties of materials	4	4	2
➤ Optical properties of materials	2	2	1
➤ Magnetic properties of materials	2	2	1
Total hours	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 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 student's free day.

2- Teaching and learning methods:

Lecture: Weekly Lecture

Practical training/ laboratory: Weekly Lab.

Seminar/Workshop:

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	Points	%
Written examination	60	60
Oral examination	0	0
Practical/laboratory work	20	20
Other assignments/class work	10	10
Mid-Term Exam	10	10
Total	100	100

Members of examination committee

Dr. Adel El-Gamal & Dr Nasr Aref

Role of external evaluator

Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course: 78%

Response of course team Non

List any criticisms Non

7- Comments from external evaluator(s): 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. Nasr Aref

Signature:

Date: 28/9/2015

Semester's Course Report 2014/2015 Fall Semester

A- Basic Information

- 1- **Title and code:** (MNF213) Mechanics of Machines (I)
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc. Prog.
 3- **Year/Level of program:** second Level
 4- **Unit hours:** 3 Lectures Tutorial Practical
- 5- **Names of lecturers contributing to the delivery of the course:** Prof. Dr. Ahmed M. Sarhan
 Course coordinator Prof. Dr. Ahmed Mohie El-Din Sarhan
 External evaluator: None

B- Statistical Information

No. of students attending the course:	No. <input type="text" value="136"/>	% <input type="text" value="100"/>	
No. of students completing the course:	No. <input type="text" value="136"/>	% <input type="text" value="100"/>	
Results:			
	No.	%	Grading of successful students:
Passed	131	96.32	No. %
Failed	5	3.68	Excellent 58 42.55
			Very Good 29 21.33
			Good 25 18.38
			Pass 19 13.97

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Moment of inertia	4	Prof. Dr. Ahmad Sarhan
• System of particles	12	
• Kinematics of rigid bodies,	8	
• Plane Motion of rigid bodies: Force and acceleration	12	
• Plane Motion of rigid bodies: Energy and Momentum	12	
• Cams	8	
Total hours	56	

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

2- Teaching and learning methods:

Lectures:

Practical training/ laboratory:

Seminar/Workshop:

Class activity: Practical Applications; Problem solving.

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	<input type="checkbox"/>
Other assignments/class work	20 %
Mid-Term Exam	10 %
Total	100 %
Members of examination committee	Dr. Ahmed Sarhan Dr. Gafar Hus
Role of external evaluator	Non

4- Facilities and teaching materials:

Totally adequate	<input type="checkbox"/>
Adequate to some extent	<input type="checkbox"/>
Inadequate	<input type="checkbox"/>
List any inadequacies	Non

5- Administrative constraints

List any difficulties encountered No

6- Student evaluation of the course:

List any criticisms

1. Lack of materials

Response of course team

More material is added to cover more areas

7- Comments from external evaluator(s):

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan: Some problem is added

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
1. Provide more Problems		Dr. Sarhan

Course coordinator: Prof. Dr Ahmed Mohie Eldin Sarhan

Signature:

Date: 11/10/2015

Annual Course Report (Academic Year 2014-2015)

A- Basic Information

1- Title and code: Presentation Skills - (GEN 241)

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

3- Year/Level of program: Second Level

4- Credit hours: 2 Lectures Tutorial Practical Total

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

Dr. Lubna Fekry

Course coordinator: Dr. Lubna Fekry

External evaluator: None

B- Statistical Information

	FALL	SPRING
No. of students attending the course	No. <input type="text" value="158"/> 100%	No. <input type="text" value="10"/> 100%
No. of students completing the course	No. <input type="text" value="157"/> 99.367%	No. <input type="text" value="10"/> 100%

Results

	FALL		SUMMER	
	No.	%	No.	%
Passed	151	96.178	7	70
Failed	6	3.8	3	30

Grading of students

	FALL		SUMMER	
	No.	%	No.	%
A	13	8.28	0	0
B	48	30.57	0	0
C	57	36.31	4	40
D	33	21.02	3	30

C- Professional Information

1 – Course teaching:

Topics	Lecture hours
1- Preparation of short talks.	2
2- How to write a technical report.	2
3- C.V Writing: Preparation of an attractive C.V. containing personal data qualifications, posts, and publications. - Interview Preparations	2
4- Fundamentals of preparing an attractive style for a short talk, techniques for using slides and projector for better interpretation. Using the power point technique for achieving and ideal short talk through a lab top and a data show / Seminar training.	8
5- To improve the student communications skills / Seminar training	4
6- To develop the student acquiring power of leadership	2
7- Training on active listening and negotiation.	4
8- To understand and practice what's body language.	2
9- Free Suggested topic by the students.	2
Total hours	28

Topics taught as a percentage of the content specified:

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

Reasons in detail for not teaching any topic None

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

2- Teaching and learning methods:

Lectures: Presenting for both Lecturer and students using data show + white board

Practical training/ laboratory: --

Seminar/Workshop: yes

Class activity: Bi-weekly presentation by students

Case Study: None

Other assignments/homework: Technical report/ CV writing / Work Biography

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

None

3- Student assessment: Presentation / Technical report / CV writing / Work Biography

Written examination	70 %
Technical report	12 %
Presentation /class work	10 %
Personnel CV	5 %
Factory / Company Biography	3 %
Total	100 %

Members of examination committee Dr. Lubna Fekry

Role of external evaluator None

4- Facilities and teaching materials:

Presentations, Videos, Picsetc

Totally adequate Yes

Adequate to some extent

Inadequate

List any inadequacies None

5- Administrative constraints

List any difficulties encountered

- Limited time for all students to present well
- Not adequate class work degrees compared with final exam degree.
- No assistant.

6- Student evaluation of the course:

List any criticisms

None

Response of course team

None

7- Comments from external evaluator(s):

External evaluator: (None)

8- Course enhancement:

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

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

9- Action plan for academic year 2015 – 2016

Course coordinator: Dr. Lubna Fekry

Signature:

Date: September 2015

Semester's Course Report Academic year: 2014-2015 Semester: Fall

A- Basic Information

- 1- Title and code: (MNF 214) Machine Drawing I
- 2- Program(s) on which this course is given: Manufacturing Eng. & Prod. Tech. BSc Program
- 3- Year/Level of program: Second Year/Sophomore
- 4- Credit hours: 3 Lectures 2hrs Tutorial 4hrs Practical -
- 5- Names of lecturers contributing to the delivery of the course: Prof. Dr. Nabil Gadallah
Course coordinator Prof. Dr. Nabil Gadallah
External evaluator: None

B- Statistical Information

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

Results:

	No.	%
Passed	139	86.3
Failed	22	13.7

Grading of successful students:		
Grade	No.	%
A	17	10.2
B	32	19.9
C	41	24.7
D	32	19.9

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Welded Joints	4	Prof. Dr. Nabil Gadallah
Riveted Joints	4	
Journal Bearings	4	
Journal Bearings	4	
Rolling Bearings	4	
Gears- Gear Geometry .	4	
Spur – Helical Gears	4	
Bevel Gears	4	
Worm Gears	4	
Mechanical transmission	4	
Oil seals	4	
Springs	6	
Valves	6	
Revision	4	
Total	60	

Topics taught as a percentage of the content specified:

>90 % 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 student's free day.

2- Teaching and learning methods:

Lectures:

Course notes

- Machine Drawing (2) by: Prof. Nabil Gadallah, Modern Academy for Engineering & Technology, 2013.
- Standardized parts by: Prof. Mamdouh saber, Modern Academy for Engineering & Technology, 2005.

Practical training/ laboratory:

Seminar/Workshop:

Class activity:

Case Study:

Other assignments/homework:

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

3- Student assessment:

Method of assessment	Points	%
Written examination	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	20	20
Mid-Term Exam	10	10
Total	100	100

Members of examination committee

Dr. Nabil Gadallah

Role of external evaluator

Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course: 78%

List any criticisms Non

7- Comments from external evaluator(s): 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 Non

9- Action plan for academic year 2015 – 2016

Actions required

Completion date

Person responsible

Non

Course coordinator: Prof. Dr. Nabil Gadallah

Signature:

Date: 28/9/2015

Semester's Course Report Academic year 2014-2015

A- Basic Information

- 1- **Course Code & Title:** (MTH 207) Numerical Analysis
- 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Program
- 3- **Year/Level of program:** Sophomore, Fourth Semester
- 4- **Credit hours**
Credit 3 hrs. Lectures: 2 hrs. Tutorial 2 hrs. Practical
- 5- **Names of lecturers contributing to the delivery of the course:** Dr. S. Shenawy
- 6- **Course coordinator:** Dr. Sameh Shenawy
- 7- **External evaluator:** Non

B- Statistical Information

- | | | | | |
|--|------------|------------|------------|----------|
| 1- No. of students attending the course: | No. | 142 | 100 | % |
| 2- No. of students completing the course: | No. | 142 | 100 | % |

3- **Results:**

	No.	%
Passed	114	80
Failed	28	20

Grading of successful students:		
Grade	No.	%
Excellent	14	9.85
Very Good	17	11.97
Good	35	24.65
Pass	48	33.8

C- Professional Information

1 – Course teaching

Topic		Lecture	Actual	Tutorial hours
1	Curve fitting and linear Approximation of a function.	3	3	3
2	Polynomial interpolation and error estimation in the interpolation formula	2	2	2
3	Lagrange interpolation	2	2	2
4	Newton –interpolation	2	2	2
5	Hermit interpolation.	2	2	2
6	Newton-Cotes formula, composite Newton-cotes formula	2	2	2
7	Romberg – Steifel integration method.	2	2	2
8	Numerical solution of initial value problems	3	2	2
9	Numerical solution of first order methods Runge- Kutta methods	4	2	2
10	Multistep methods.	2	2	2
11	Numerical solution of linear and non-linear equation, Gauss-Seidel method.	4	4	4
12	Numerical solution of nonlinear equations the fixed point iteration method,	2	2	2
13	Newton-Raphson method.	2	2	2
Total hours		30	27	27

Topics taught as a percentage of the content specified: More than 95 %

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: A1,A5,B1,B2,B3,B11,D3,D4,D7

2- Teaching and learning methods:

- | | |
|-----------------------|--|
| Lectures: | Lecture, discussions, tutorials, problem solving |
| Class activity | Numerical exercises; solution of problems |
| 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	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	15	15
Mid-Term Exam	15	15
Total	100	100

Members of examination committee: Dr. S. Shenawy

Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	
Adequate to some extent	Yes
Inadequate	

List any inadequacies:

This needs a computer Lab

5- Administrative constraints (List any difficulties encountered)

List any criticisms	Response of course team
Announcing of assignments grades	We will announce these grades.

7- Comments from external evaluator(s):

Comment	Response of course team
None	None

8- Written Exam Evaluation

The results of the course are normally distributed with mean at 70% and with standard deviation 20. This means that the main objectives of the course are achieved for most of the students.

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
Adding applications in manufacturing technology.	Done	None

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
A complete sheet describing students assessments.	Annually starting from May 2016	Dr. S. Shenawy

Course coordinator: Prof. Dr. S. Shenawy

Signature:

Date: July 15, 2015

Semester's Course Report

Academic year: 2014 - 2015

Semester: spring

A- Basic Information

- 1- **Course Code & Title:** (MNF 215) Mechanics of Machines-2
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Program
 3- **Year/Level of program:** Sophomore
 4- **Credit hours**
 Credit 3 hrs Lectures 2 hrs Tutorial 3 hrs Practical -
 5- **Names of lecturers contributing to the delivery of the course:** Assoc. Prof. Gaafar Hussein
 6- **Course coordinator:** Assoc. Prof. Gaafar Hussein
 7- **External evaluator:** Non

B- Statistical Information

No. of students attending the course:	No.	125	100	%
No. of students completing the course:	No.	125	100	%

Results:

	No.	%
Passed	124	99.2
Failed	1	0.8

Grading of successful students:		
Grade	No.	%
A	33	26.4
B	47	37.6
C	27	21.6
D	17	13.6

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecturer
	Lec.	Tutorial	
• Kinematics of motion: Different types of motion of particles, the basic equations governing motion.	2	4	Associate Prof. Dr. Gaafar Hussein
• Dynamic force analysis in machines: Velocity and acceleration in mechanisms, inertia forces and moments. Static and dynamic balancing of rotating and reciprocating machines	4	8	
• Gear trains: - Types of gears (spur, helical, worm, and bevel gears) and their basics - Types of gear trains: ordinary (simple, compound) and epicyclic gear trains - Transmission ratios of different gear trains	6	10	
• Gyroscopes: Processional angular motion, gyroscopic couple, effect of gyroscopic couple in different applications (motor vehicles, marines, aircrafts, production machines,)	6	8	
• Inertia forces in reciprocating parts: - Velocity and acceleration of reciprocating parts in engines, approximate analytical method for velocity and acceleration of the piston and connecting rod - Inertia forces and moments on the engine moving parts	4	8	
• Turning moment diagrams and flywheel: - Turning moment diagrams for single-cylinder and multi-cylinder engines - Fluctuations of energy and speed, flywheel design calculations.	4	4	
• Speed governors: The basic types of governors and their principle of actions, the basic equations for controlling the rotating speeds.	4	3	
Total hours	30	45	

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 a7	b1 to b4	c1 to c4	d1 to d3

2- Teaching and learning methods:

Lecture, presentations, discussions, tutorials, problem solving, self-learning

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

3- Student assessment:

Method of assessment	Points	%
Written examination	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	20	20
Mid-Term Exam	10	10
Total	100	100

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

Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

5- Administrative constraints (List any difficulties encountered) None

6- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	None	

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	

8- Written Exam Evaluation

- The exam level is convenient, considering the percentage of high grades.
- The whole exam result shows considerable weakness in engineering units.

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: None

9- Action plan for academic year 2015 – 2016

Actions required	Completion date	Person responsible
None		

Course coordinator: Assoc. Prof. Gaafar A. Hussein

Signature:

Date: September 21, 2015

Annual Course Report Academic year: 2014 - 2015 Semester: summer

A- Basic Information

- 1- **Course Code & Title:** (MNF 215) Mechanics of Machines-2
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Program
 3- **Year/Level of program:** Sophomore
 4- **Credit hours**
 Credit 3 hrs Lectures 2 hrs Tutorial 2 hrs Practical -
 5- **Names of lecturers contributing to the delivery of the course:** Assoc. Prof. Gaafar Hussein
 6- **Course coordinator:** Assoc. Prof. Gaafar Hussein
 7- **External evaluator:** Non

B- Statistical Information

- 16- **No. of students attending the course:** No.

16	100	%
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 17- **No. of students completing the course:** No.

16	100	%
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 18- **Results:**

	No.	%
Passed	16	100
Failed	0	0

Grading of successful students:		
Grade	No.	%
A	0	0
B	5	31.25
C	6	37.5
D	5	31.25

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecturer
	Lec	Tutorial	
• Kinematics of motion: Different types of motion of particles, the basic equations governing motion.	2	4	Associate Prof. Dr. Gaafar Hussein
• Dynamic force analysis in machines: Velocity and acceleration in mechanisms, inertia forces and moments. Static and dynamic balancing of rotating and reciprocating machines	4	8	
• Gear trains: - Types of gears (spur, helical, worm, and bevel gears) and their basics - Types of gear trains: ordinary (simple, compound) and epicyclic gear trains - Transmission ratios of different gear trains	6	10	
• Gyroscopes: Precessional angular motion, gyroscopic couple, effect of gyroscopic couple in different applications (motor vehicles, marines, aircrafts, production machines,)	6	8	
• Inertia forces in reciprocating parts: - Velocity and acceleration of reciprocating parts in engines, approximate analytical method for velocity and acceleration of the piston and connecting rod - Inertia forces and moments on the engine moving parts	4	8	
• Turning moment diagrams and flywheel: - Turning moment diagrams for single-cylinder and multi-cylinder engines - Fluctuations of energy and speed, flywheel design calculations.	4	4	
• Speed governors: The basic types of governors and their principle of actions, the basic equations for controlling the rotating speeds.	4	3	
Total hours	30	45	

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 a1 to a7	Intellectual skills b1 to b4	Applied Skills c1 to c4	General transferable skills d1 to d3
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2- Teaching and learning methods:

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

3- Student assessment:

Method of assessment	Points	%
Written examination	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	20	20
Mid-Term Exam	10	10
Total	100	100

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

Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

5- Administrative constraints (List any difficulties encountered) None

6- Student evaluation of the course:

	List any criticisms	Response of course team
	None	

7- Comments from external evaluator(s): None

8- Written Exam Evaluation

- The exam level is convenient, considering the percentage of high grades.
- The whole exam result shows considerable weakness in engineering units.

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

9- Action plan for academic year 2015 – 2016

Actions required	Completion date	Person responsible
None		

Course coordinator: Assoc. Prof. Gaafar A. Hussein

Signature:

Date: September 21, 2015

Semester's Course Report Academic year: 2014 - 2015 Semester: Spring

A- Basic Information

- 1- **Course Code & Title:** (MNF222) Materials Technology and Testing
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Prog.
 3- **Year/Level of program:** : Sophomore
 4- **Credit hours**
 Credit 3 hrs Lectures 2 hrs Tutorial 1 hrs Practical 2 hr
 5- **Names of lecturers contributing to the delivery of the course:** Prof. Dr. Adel Algamal
 Dr Nasr Aref
 6- **Course coordinator:** Dr. Adel El-Gamal
 7- **External evaluator:** Non

B- Statistical Information

No. of students attending the course:	No.	86	100	%
No. of students completing the course:	No.	86	100	%

Results:

	No.	%
Passed	84	97.674
Failed	2	2.326

Grading of successful students:		
Grade	No.	%
A	20	23.810
B	24	28.571
C	24	28.571
D	16	19.048

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Practical hours	Tutorial hours
➤ Alloys and Alloying systems	3	3	1
• Phase Equilibrium and Phase Diagrams	4	3	2
➤ Fe/Fe ₃ c iron carbon diagram	5	4	3
phase Transformation	3	3	1
Time Temperature Transformation (TTT) diagrams	5	5	3
➤ Continuous Cooling Transformation (CCT) diagrams	3	3	2
The heat Treatment of Metals	3	3	1
Mechanical properties of materials	2	4	1
Fracture, Fatigue and Creep	2	2	1
Total hours	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 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 student's free day.

2- Teaching and learning methods:

Lecture: Weekly Lecture

Practical training/ laboratory: Weekly Laboratory

Seminar/Workshop:

Class activity:

Case Study:

Other assignments/homework:

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

3- Student assessment:

Assessment Method	Timing	Grade (Degrees)
Semester Work: seminars, quizzes assignments and reports	Bi-Weekly	10
Mid-Term Exam	6-th Week	10
Practical Exam	Fifteenth week	20
Written Exam	Sixteenth week	60
Total		100

Members of examination committee

Dr. Adel El-Gamal & Dr. Nasr Aref

Role of external evaluator

Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course:

90 %

Response of course team

Non

List any criticisms

Non

7- Comments from external evaluator(s):

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 Non

9- Action plan for academic year 2015 – 2016

Actions required

Completion date

Person responsible

Non

Course coordinator: Dr. Nasr Aref

Signature:

Date: 28/9/2015

Semester's Course Report 2014/2015 Spring Semester

A- Basic Information

- 1- **Title and code:** MNF221: Metals Cutting Processes
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Production Tech. BSc. Prog.
 3- **Year/Level of program:** 2nd Level / Spring
 4- **Credit hours** 3 Lectures 2hrs Tutorial 1 Hrs Practical 2 Hrs
 5- **Names of lecturers contributing to the delivery of the course:** Dr. M. Merdan
 Course coordinator: Dr. M. Merdan
 External evaluator: None

B- Statistical Information

No. of students attending the Exam: 149

Grades	No. of Students	%
+A	1	0.671
A	2	1.342
-A	12	8.054
+B	13	8.738
B	16	10.738
+C	21	14.024
C	22	14.765
+D	18	12.081
D	14	9.396
-D	15	10.067
F	15	10.067

% success: 89.933

C- Professional Information

1 – Course teaching

2- Contents			
Topic	Lecture hours	Tutorial hours	Practical hours
Introduction; Definition of technology, production system, manufacturing processes and elements of machining system	2		4
Machining Deviations; reasons, types, dimensional deviation and ISO system of tolerances, definitions and denotations of geometric deviations, standardization and measurement of surface roughness.	5	2	4
Classification of metal cutting processes.	1	1	
Measurement and inspections	6	2	4
Turning process.	4	2	4
Drilling and boring processes.	2	1	4
Planning, shaping, and slotting processes.	2	2	2
Milling process.	3	2	4
Surface and cylindrical grinding processes.	5	3	4

Note: At each metal cutting operations the following topics are going to be discussed; basic concepts, cutting tools and work pieces clamping methods, machine tool types and main parts, attainable accuracies and surface roughness, and sequences of operations required for specific applications for each metal cutting process.			
Total	30	15	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 data**

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: None

3- Student assessment:

Method of assessment	Percentage of total
▪ Written examination	<input type="text" value="60 %"/>
▪ Oral examination	
▪ Practical/laboratory work	<input type="text" value="20 %"/>
▪ Other assignments/class work	<input type="text" value="10 %"/>
▪ Mid-Term Exam	<input type="text" value="10 %"/>
Total	100 %
Members of examination committee	Dr. M. Merdan
Role of external evaluator	none

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

None None

7- Comments from external evaluator(s):

None None

8- Course enhancement:

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

9 - Action plan for academic year 2015 – 2016

Actions required	Completion date	Person responsible
None		

Course coordinator: Dr. M. Merdan
Signature: M. Merdan
Date: 17/10/2015

Semester's Course Report 2014/2015 Summer Semester

A- Basic Information

- 1- **Title and code:** MNF221: Metals Cutting Processes
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Production Tech. BSc. Prog.
 3- **Year/Level of program:** 2nd Year Manufacturing Technology / Summer
 4- **Unit hours:** 3 Lectures 2hrs Tutorial 1 Hrs Practical 2 Hrs
 5- **Names of lecturers contributing to the delivery of the course:** Dr. M. Merdan
 Course coordinator: Dr. M. Merdan
 External evaluator: None

B- Statistical Information

No. of students attending the Exam ; 15

Grades	No. of Students	%
+C	1	6.667
+D	1	6.667
D	6	40.000
-D	5	33.333
F	2	13.333

% success: 86.667

C- Professional Information

1 – Course teaching

2- Contents			
Topic	Lecture hours	Tutorial hours	Practical hours
Introduction; Definition of technology, production system, manufacturing processes and elements of machining system	2		4
Machining Deviations; reasons, types, dimensional deviation and ISO system of tolerances, definitions and denotations of geometric deviations, standardization and measurement of surface roughness.	5	2	4
Classification of metal cutting processes.	1	1	
Measurement and inspections	6	2	4
Turning process.	4	2	4
Drilling and boring processes.	2	1	4
Planning, shaping, and slotting processes.	2	2	2
Milling process.	3	2	4
Surface and cylindrical grinding processes.	5	3	4
Note: At each metal cutting operations the following topics are going to be discussed; basic concepts, cutting tools and work pieces clamping methods, machine tool types and main parts, attainable accuracies and surface roughness, and sequences of operations required for specific applications for each metal cutting process.			
Total	30	15	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 data

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: None

4- Student assessment:

Method of assessment	Percentage of total
▪ Written examination	<input type="text" value="60 %"/>
▪ Oral examination	
▪ Practical/laboratory work	<input type="text" value="20 %"/>
▪ Other assignments/class work	<input type="text" value="10 %"/>
▪ Mid-Term Exam	<input type="text" value="10 %"/>
Total	100 %
Members of examination committee	Dr. M. Merdan
Role of external evaluator	none

5- Facilities and teaching materials:

- Totally adequate
- 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

None

8- Comments from external evaluator(s):

None

Response of course team

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 2015 – 2016

Actions required	Completion date	Person responsible
None		

Course coordinator: Dr. M. Merdan

Signature: M. Merdan

Date: 17/10/2015

Semester's Course Report 2014/2015 Fall Semester

A- Basic Information

- 1- Title and code: GEN 242 Report writing
- 2- Program(s) on which this course is given: Manufacturing Eng. & Prod. Tech. BSc. Prog.
- 3- Year/Level of program: Second Year Man. Eng. & Prod. Technology.
- 4- Credit hours: 3 Lectures Tutorial
- 5- Names of lecturers contributing to the delivery of the course
Dr. Elsayed kamar
Course coordinator Dr. Elsayed kamar
External evaluator: None

B- Statistical Information

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

Results:

	No.	%
Passed	106	92.174
Failed	9	7.826

Grading of successful students:

	No.	%
Excellent	18	15.6
Very Good	28	24.3
Good	32	27.8
Pass	19	16.5

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Chapter 1: A guide to report writing	2	Dr. Elsayed kamar
Chapter 2: Technical report writing	4	
Chapter 3: Business letters	4	
Chapter 4: Technical writing ethics	4	
Chapter 5: Mechanics	4	
Chapter 6: Using words correctly	4	
Chapter 7: Characteristics of effective written communication	6	
Chapter 8: Connectives	2	
Total hours	28	

Topics taught as a percentage of the content specified:

>90 % 70-90 % <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:
 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:
None

3- Student assessment:

Method of assessment	Percentage of total
Written examination	<input type="text" value="70 %"/>
Oral examination	----
Practical/laboratory work	<input type="text" value=""/>
Other assignments/class work	<input type="text" value="30 %"/>
Total	100 %
Members of examination committee	Dr. Elsayed kamar
Role of external evaluator	None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered

6- Student evaluation of the course:

List any criticisms

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

9- Action plan for academic year 2015 – 2016

Actions required	Completion date	Person responsible
<input type="text" value="None"/>		

Course coordinator:

Signature:

Date:

Semester's Course Report 2014/2015 Summer Semester

A- Basic Information

- 1- Title and code: GEN 242 Report writing
 2- Program(s) on which this course is given: Manufacturing Eng. & Prod. Tech. BSc. Program
 3- Year/Level of program: Second Year Man. Eng. & Prod. Technology.
 4- Credit hours: 3 Lectures Tutorial
 5- Names of lecturers contributing to the delivery of the course: Dr. Elsayed kamar
 Course coordinator Dr. Elsayed kamar
 External evaluator: None

B- Statistical Information

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

Results:

	No.	%
Passed	27	87.097
Failed	4	12.903

Grading of successful students:

	No.	%
Excellent	2	15.6
Very Good	6	24.3
Good	6	27.8
Pass	13	16.5

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Chapter 1: A guide to report writing	2	Dr. Elsayed kamar
Chapter 2: Technical report writing	4	
Chapter 3: Business letters	4	
Chapter 4: Technical writing ethics	4	
Chapter 5: Mechanics	4	
Chapter 6: Using words correctly	4	
Chapter 7: Characteristics of effective written communication	6	
Chapter 8: Connectives	2	
Total hours	28	

Topics taught as a percentage of the content specified:

>90 % 70-90 % <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:

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: None

3- Student assessment:

Method of assessment	Percentage of total
Written examination	<input type="text" value="70 %"/>
Oral examination	----
Practical/laboratory work	<input type="text" value="30 %"/>
Other assignments/class work	
Total	100 %
Members of examination committee	Dr. Elsayed kamar
Role of external evaluator	None

4- Facilities and teaching materials:

Totally adequate	<input type="text" value="Yes"/>
Adequate to some extent	<input type="text" value="....."/>
Inadequate	<input type="text" value="....."/>
List any inadequacies	Non

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course:

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 None

9- Action plan for academic year 2015 – 2016

Actions required	Completion date	Person responsible
None		
Course coordinator: Dr. Elsayed kamar		
Signature:		
Date: 1/9/2015		

Semester's Course Report Academic year: 2014-2015 Semester: Spring

A- Basic Information

- 1- **Title and code:** (MNF 216) Machine Drawing II
- 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Program
- 3- **Year/Level of program:** Second Year/Sophomore
- 4- **Credit hours: 3 Lectures:** 2hrs **Tutorial:** 4hrs **Practical -**
- 5- **Names of lecturers contributing to the delivery of the course:** Prof. Dr. Nabil Gadallah
Course coordinator Prof. Dr. Nabil Gadallah
External evaluator: None

B- Statistical Information

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

Results:

	No.	%
Passed	118	92.2
Failed	10	7.8

Grading of successful students:		
Grade	No.	%
A	22	17.2
B	17	13.3
C	34	26.6
D	27	21

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Welded Joints	4	Prof. Dr. Nabil Gadallah
Riveted Joints	4	
Journal Bearings	4	
Journal Bearings	4	
Rolling Bearings	4	
Gears- Gear Geometry.	4	
Spur – Helical Gears	4	
Bevel Gears	4	
Worm Gears	4	
Mechanical transmission	4	
Oil seals	4	
Springs	6	
Valves	6	
Revision	4	
Total	60	

Topics taught as a percentage of the content specified:

>90 % 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 student's free day.

2- Teaching and learning methods:

Lectures:

Course notes

- Machine Drawing (2) by: Prof. Nabil Gadallah, Modern Academy for Engineering & Technology, 2013.
- Standardized parts by: Prof. Mamdouh saber, Modern Academy for Engineering & Technology, 2005.

Practical training/ laboratory:

Seminar/Workshop:

Class activity:

Case Study:

Other assignments/homework:

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

3- Student assessment:

Method of assessment	Points	%
Written examination	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	20	20
Mid-Term Exam	10	10
Total	100	100

Members of examination committee

Dr. Nabil Gadallah

Role of external evaluator

Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered None

6- Student evaluation of the course: 78%

List any criticisms Non

7- Comments from external evaluator(s): 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: 2/8/2014

Semester Course Report (2014/2015) Summer

A- Basic Information

- 1- **Title and code:** (MNF 216) Machine Drawing II
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Program
 3- **Year/Level of program:** Second Year/Sophomore
 4- **Credit hours: 3 Lectures:** 2hrs **Tutorial:** 4hrs **Practical -**
 5- **Names of lecturers contributing to the delivery of the course**
 Assist. Prof. Serage Eldin Khalifa
 Course coordinator Prof. Dr. Nabil Gadallah
 External evaluator

B- Statistical Information

No. of students attending the course: No. 29 % 100
No. of students completing the course: No. 29 % 100
Results:

	No.	%	Grading of successful students:		
				No.	%
Passed	24	82.75			
Failed	5	17.24	Excellent	3	10.34
			Very Good	3	10.34
			Good	7	24.14
			Pass	11	37.93

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
Welded Joints	4	Assist. Prof. Serage Eldin KHalifa
Riveted Joints	4	
Journal Bearings	4	
Journal Bearings	4	
Rolling Bearings	4	
Gears- Gear Geometry.	4	
Spur – Helical Gears	4	
Bevel Gears	4	
Worm Gears	4	
Mechanical transmission	4	
Oil seals	4	
Springs	6	
Valves	6	
Revision	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, 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:

Course notes

- Machine Drawing (2) by: Prof. Nabil Gadallah, Modern Academy for Engineering & Technology, 2013.
- Standardized parts by: Prof. Mamdouh saber, Modern Academy for Engineering & Technology, 2005.

Practical training/ laboratory:

Seminar/Workshop:

Class activity:

Case Study:

Other assignments/homework:

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

3- Student assessment:

Method of assessment	Points	%
Written examination	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	20	20
Mid-Term Exam	10	10
Total	100	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

Non

List any criticisms

Non

7- Comments from external evaluator(s):

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 Serage Eldin Khalifa		
Signature:		
Date: 21/9/2015		

2015/2016

Junior, Fifth Semester

Code	Course
MTH 305	Math-5 (Introduction to Probability and Statistics)
MNF 311	Fluid Mechanics
MNF 321	Metal Cutting Theory
MNF 312	Computer Applications-1
MNF 322	Machine Design-1
ELC 316	Electro Engineering
MNF 361	Seminar-1.

Junior, Sixth Semester

Code	Course
MNF323	Foundry Technology
MNF313	Computer Applications-2
MNF324	Machine Design-2
MNF325	Engineering Metrology
MNF314	Thermodynamics
ELC 317	Electric Machines
MNF362	Seminar-2.

Annual Course Report Academic year 2015-2016

A- Basic Information

- 1- **Course Code & Title:** (MTH 305) Introduction to Probability and Statistics
- 2- **Program(s) on which this course is given:**
 Computer Engineering and Information Technology BSc Program
 Electronic Engineering and Communication Technology BSc Program
 Manufacturing Engineering and Production Technology BSc Program
- 3- **Year/Level of program:** Fifth Semester (Junior)
- 4- **Credit hours**
Credit: 3 hrs. **Lectures:** 2 hrs. **Tutorial:** 2 hrs.
- 5- **Names of lecturers contributing to the delivery of the course:** Dr. S. Shenawy
- 6- **Course coordinator:** Dr. S. Shenawy
- 7- **External evaluator:** None

B- Statistical Information

- 1- **No. of students attending the course:** **No.** **528** **100** **%**
- 2- **No. of students completing the course:** **No.** **528** **100** **%**
- 3- **Results:**

	No.	%
Passed	471	89.2
Failed	57	10.8

Grading of successful students:		
Grade	No.	%
Excellent	58	10.98
Very Good	103	19.51
Good	139	26.33
Pass	171	32.38

C- Professional Information

1 – Course teaching

Topic		Lecture	Actual	Tutorial
1	Introduction, Sample space, Axioms of probability	3	2	6
2	Conditional probability Bay's theorem	3	3	6
3	Discrete distributions.	3	3	3
4	Binomial distribution.	3	3	6
5	Continuous distributions	3	3	3
6	Normal distribution.	3	3	3
7	Standard normal distribution.	3	3	3
8	Introduction to Statistics	3	2	6
9	Measure of location (mean, median and mode)	3	3	3
10	Measures of variations	3	3	6
Total hours		30	28	45

Topics taught as a percentage of the content specified: More than 93 %

Reasons in detail for not teaching any topic: None

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

Achieved program, ILO's: A1, A2, A5, B1, B2, B3, B7, B11, C1, C2, C12, D3, D7

2- Teaching and learning methods:

- Lectures:** Lecture, discussions, tutorials, problem solving
Class activity Exercises; solution of problems
Case Study: Selected case studies and applications

3- Student assessment:

Method of assessment	Points	%
Written examination	70	70
Oral examination	None	0
Practical/laboratory work	None	0
Other assignments/class work	20	20
Mid-Term Exam	10	10
Total	100	100

Members of examination committee: Dr. S. Shenawy

Role of external evaluator: None

4- Facilities and teaching materials:

Totally adequate	
Adequate to some extent	Yes
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
(a)	They want to practice the application solving problems in tutorial not only in lectures.	Next semester we will do this.

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	None	None

8- Written Exam Evaluation

The results of the course are normally distributed with mean at 63% and with standard deviation 15. This means that the main objectives of the course are achieved for most of the students.

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
Adding more examples and practice problems to class works	Sept. 2015	Done

9- Action plan for academic year 2016 – 2017

Actions required	Completion date	Person responsible
Adding more examples and practice problems to class works	Sept. 2016	Dr S. Shenawy

Course coordinator: Dr. S. Shenawy

Signature:

Date: Oct. 10, 2016

Semester's Course Report Academic year: 2015-2016 Semester: Fall

A- Basic Information

- 1- Title and code: (MNF 311) Fluid Mechanics
- 2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc. Program
- 3- Year/Level of program: Third Level
- 4- Credit hours: 3 Lec.: 2 Tutorial: 1 Practical: 2 Pre-requisite: MTH 102
- 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. 142 100%
 No. of students completing the course: No. 142 100%

Results:

	No.	%	Grading of successful students:			
Passed	130	91.55			No.	%
Failed	12	8.45				
			Excellent	A⁺	2	1.4
				A	1	0.7
				A⁻	5	3.5
			Very	B⁺	8	5.6
			Good	B	9	6.3
			Good	C⁺	20	14.1
				C	24	16.9
			Pass	D⁺	23	16.2
				D	19	13.4
				D⁻	19	13.4

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
• Introduction: definition of fluids, dimensions and units, fluid properties.	3	2	3
• Fluid statics: pressure at a point, pressure field, pressure measurement, hydrostatic forces acting on plane and curved surfaces, buoyancy, floatation, and stability.	6	2	6
• Fluid kinematics: velocity field, acceleration field, Reynolds's transport theorem.	6	2	6
• Conservation laws: conservation of mass- continuity equation, conservation of linear and angular momentum, conservation of energy	5	2	5
• Similitude, dimensional analysis, and modeling: dimensional analysis, Buckingham Pi theorem, determination of Pi terms by inspection, Common dimensionless groups in fluid mechanics, correlation of experimental data, modeling and similitude, some typical model studies.	4	4	6
• Viscous Flow in Pipes: general characteristics of pipe flow, fully developed laminar flow, fully developed turbulent flow, dimensional analysis of pipe flow, pipe flow examples, pipe flow rate measurement.	2	0	4
Total hours	30	12	30

Topics taught as a percentage of the content specified:

>90 % 70-90 % 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: Weekly Lecture

Practical: Weekly lab.

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 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

5- Administrative constraints

List any difficulties encountered

6- Student evaluation of the course:

List any criticisms	Response of course team
<ul style="list-style-type: none"> ➤ Students do not understand well from the teaching assistant ➤ Some errors when recording the lab. Degrees. ➤ Methodology of explanation of the course. ➤ The lab. technicians. 	<ul style="list-style-type: none"> ➤ The teaching assistant will be changed next year. ➤ By investigating the criticism, no mistakes were found in listing the lab. grades. ➤ I will take care of it next year. ➤ I discussed with them the criticisms and this will be considered when teaching the lab.

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

Actions required	Completion date	Person responsible
➤ Changing the teaching assistant.	Next year	Dr. Abdalla

Course coordinator: Dr. Abdelmagid A. Abdalla

Signature:

Date: 15/3/2016

Fall Course Report 2015/2016

A- Basic Information

- 1- **Title and code:** MNF 321: Metals Cutting Theories
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc. Prog.
 3- **Year/Level of program:** 3rd Level / Fall
 4- **Unit hours:** 3 Lectures 2hrs Tutorial 1 Hrs Practical 2 Hrs
 5- **Names of lecturers contributing to the delivery of the course:** Dr. M. Merdan
 Course coordinator: Dr. M. Merdan
 External evaluator: None

B- Statistical Information

No. of students attending the Exam: 126

Grades	No. of Students	%
+A	17	13.492
A	22	17.46
-A	9	7.143
+B	17	13.492
B	16	12.698
+C	9	7.143
C	8	6.349
+D	10	7.937
D	5	3.968
-D	8	6.349
F	5	3.968

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
Introduction; Definition of machining system, manufacturing processes and elements of machining system.	2	2	2
Machining Deviations; reasons, types, dimensional deviation and ISO system of tolerances, definitions and denotations of positional & geometric deviations, standardization and measurement of surface roughness.	6	1	4
Cutting tools failures, Cutting tools materials; classification and properties; tools geometries.	2	2	3
Chip formation; evaluation of amount of deformation using coefficient of chip upsetting, k , and shear angle. Study of the effects of cutting conditions upon k and ξ_1 .	2	1	4
Integrity of machined surfaces; Work hardening, residual stresses, and surface roughness	2		2
Cutting forces calculation in oblique and orthogonal cuttings, cutting forces measurement, and study of the effects of cutting conditions.	2	2	3
Heat generation when metal cutting, sources and heat distribution, and study of the effects of cutting parameters.	2	1	2

Cutting tools wear; types and curves of wear, Taylor's equation T-v relationship, and effects of cutting parameters.	2	2	4
Determination of optimum Cutting conditions; v, s, and t.	2	2	
Productivity when rough and fine metal cutting operations	2		
Production costs determination	2		
Gears manufacturing; form and generating methods	2		4
Jigs and fixtures design	2	2	2
Total	30	15	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 data:** Non

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,

3- Student assessment:

Method of assessment	Percentage of total
▪ Written examination	<input type="text" value="60 %"/>
▪ Oral examination	
▪ Practical/laboratory work	<input type="text" value="20 %"/>
▪ Other assignments/class work	<input type="text" value="10 %"/>
▪ Mid-Term Exam	<input type="text" value="10 %"/>
Total	100 %
Members of examination committee	Dr. M. Merdan
Role of external evaluator	none

4- Facilities and teaching materials:

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

5- Administrative constraints None

6- Student evaluation of the course: 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 2016– 2017

Actions required

Completion date

Person responsible

None

Course coordinator:

Dr. M. Merdan

Signature: M. Merdan

Date: 17/10/2016

Semester Course Report

(2015/2016)

A- Basic Information

- 1- Title and code: (MNF322) Machine Design (I)
- 2- Program(s) on which this course is given: Manufacturing Engineering & Prod. Tech. BSc. Program
- 3- Year/Level of program: Third Level Manufacturing Engineering, Fall Semester
- 4- Unit hours: Lectures Tutorial Practical Total
- 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. %

No. of students completing the course: No. %

Results:

	No.	%	Grading of successful students:		
Passed	124	94.656		No.	%
Failed	7	5.344	Excellent	13	9.923
			Very Good	40	30.534
			Good	31	23.7
			Pass	40	30.534

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours
• Introduction; definitions, design phases and design considerations, mechanical properties of metals	2	1
• Analysis of stresses at a point	1	4
• Determination of principal stresses for a stress element	2	4
• Design for static strength	4	8
• Design for Dynamic strength	6	8
• Design of Shafts	2	4
• Design of Keys, Feathers & splines	2	3
• Design of Threaded Joints, Fasteners and Connections	6	6
• Design of Welded Joints	1	3
• Design of Helical Springs	4	4
Total hours	30	45

Topics taught as a percentage of the content specified:

>90 % 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:

Tutorials:

Practical training/ laboratory:

Seminar/Workshop:

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: 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. 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:

Response of course team

List any criticisms

None

7- Comments from external evaluator(s):

Response of course team

None

8- Course Enhancement:

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

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

9- Action plan for academic year 2016 – 2017

Actions required

Completion date

Person responsible

None

Course coordinator: Prof. Dr Serage Eldin Khalifa

Signature:

Date: 15/2/2016

Semester Course Report (Fall) Academic year 2015-2016

A- Basic Information

- 1- **Course Code & Title:** (MNF312) Computer Applications I
 2- **Program(s) on which this course is given:** Manufacturing Engineering & Prod. Tech. BSc Program
 3- **Year/Level of program:** Third Year/ level Second
 4- **Teaching/Credit hours**
 Credit 3 hrs Lectures - hrs Tutoria - hrs Practical 3 hr
 5- **Names of lecturers contributing in teaching the course:** Prof. Dr. Nabil Gadallah
 6- **Course coordinator:** Prof. Dr. Nabil Gadallah
 7- **External evaluator:** Non

B- Statistical Information

- 4- **No. of students attending the course:** No. 136 100 %
 5- **No. of students completing the course:** No. 136 100 %
 6- **Results:**

	No.	%
Passed	132	97.1
Failed	4	2.9

Grading of successful students:		
Grade	No.	%
Excellent	26	19.1
Very Good	34	25
Good	38	27.9
Pass	34	25

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours
Introduction to computer applications:	2
• Computer graphics (Solid Works)	
• Engineering analysis (Matlab)	
• Solid modelling techniques in art design	
• Extrusion & Revolve	2
• Applications	6
• Sweep and Lofting	2
• Assemblies	4
• Detail Drawing (drafting)	4
Introduction to MATLAB	
• Introduction & basic vector and matrix operations.	2
• Polynomials and solution of linear equations	2
• Programming and applications	4
• Solid modelling techniques in art design	2
Revision	2
Total	30

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

Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding a1 to a3	Intellectual skills b1 to b2	Applied Skills c1 to c2	General transferable skills 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	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. 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:

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	

8- Written Exam Evaluation

➤ The exam level is convenient, considering the percentage of success.

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 2016 – 2017

Non

Course coordinator: Prof. Dr. Nabil Gadallah

Signature:

Date: February 24, 2016

Semester Course Report (Spring) Academic year 2015-2016

A- Basic Information

- 1- **Course Code & Title:** (MNF312) Computer Applications I
 2- **Program(s) on which this course is given:** Manufacturing Engineering & Prod. Tech. BSc Program
 3- **Year/Level of program:** Third Year/ level Second
 4- **Teaching/Credit hours**
 Credit 3 hrs Lectures - hrs Tutorial - hrs Practical 3 hr
 5- **Names of lecturers contributing in teaching the course:** Prof. Dr. Nabil Gadallah
 6- **Course coordinator:** Prof. Dr. Nabil Gadallah
 7- **External evaluator:** Non

B- Statistical Information

- 7- **No. of students attending the course:** No.

6	100	%
---	-----	---

 8- **No. of students completing the course:** No.

6	100	%
---	-----	---

9- **Results:**

	No.	%
Passed	5	83.33
Failed	1	16.67

Grading of successful students:		
Grade	No.	%
Excellent	0	0
Very Good	2	33.33
Good	2	33.33
Pass	1	16.67

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours
Introduction to computer applications:	2
• Computer graphics (Solid Works)	
• Engineering analysis (Matlab)	
• Solid modelling techniques in art design	
• Extrusion & Revolve	2
• Applications	6
• Sweep and Lofting	2
• Assemblies	4
• Detail Drawing (drafting)	4
Introduction to MATLAB	
• Introduction & basic vector and matrix operations.	2
• Polynomials and solution of linear equations	2
• Programming and applications	4
• Solid modelling techniques in art design	2
Revision	2
Total	30

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

Reasons in detail for not teaching any topic: Forced reduction due to political situation

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 a3	b1 to b2	c1 to c2	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	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. 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:

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	

8- Written Exam Evaluation

- The exam level is convenient, considering the percentage of success.

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
d)	Non		

10- Action plan for academic year 2016 – 2017

Non

Course coordinator: Prof. Dr. Nabil Gadallah

Signature:

Date: August 24, 2016

Semester's Course Report

Academic year: 2015-2016

Semester: Spring

A- Basic Information

- 1- Title and code: (MNF 314) Thermodynamics
- 2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc. Program
- 3- Year/Level of program: Third Level
- 4- Credit hours: 3 Lec.: 2 Tutorial: 1 Practical: 2 Pre-requisite: MTH 102
- 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. 126

100%

No. of students completing the course: No. 126

100%

Results:

	No.	%
Passed	111	88.095
Failed	15	11.905

Grading of successful students:

	No.	%
Excellent	6	5.4
Very Good	21	18.92
Good	30	27.03
Pass	54	48.65

C- Professional Information

1 – Course teaching

Topic	Taught hours	Lecturer
• Introduction: Importance of thermodynamics, some applications. Mechanisms of heat transfer.	8	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 work.	10	
• 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).	10	
• 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	11	
• 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.	11	
• Entropy: Definition, Clausius inequality, entropy of a pure substance, entropy change in a process, entropy relation, entropy generation and principle of increase of it, entropy change of a solid, liquid, and ideal gas. Second law for a control volume, for SSSF, and USUF processes,	10	
Total hours	60	

Topics taught as a percentage of the content specified:

>90 % 70-90 % 80 <70%

Reasons in detail for not teaching any topic Shortage of time. The actual term was 13 Weeks

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

2- Teaching and learning methods:

Lectures: Weekly Lecture

Practical: Weekly lab.

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. Abdelmagid A. Abdalla

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

6- Student evaluation of the course:

List any criticisms	Response of course team
➤ No. of exercise hours is small	➤ Increase the solved examples during the lecture, in addition to planning of additional 3 periods for exercise during the semester.

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

Actions required	Completion date	Person responsible
Non		

Course coordinator: Dr Abdelmagid A. Abdalla

Signature:

Date: 28/8/2016

Semester's Course Report
Academic year: 2015 - 2016
Semester: Spring

A- Basic Information

- 1- **Course Code & Title:** (MNF313) Computer Application -2
- 2- **Program(s) on which this course is given:** Manufacturing Eng. and Prod. Tech. BSc Program
- 3- **Year/Level of program:** : 2th Level
- 4- **Credit hours :** 2 Lectures: ---- Tutorial/Exercise: 6 Practical: ---
- 5- **Names of lecturers contributing to the delivery of the course:** Dr. Atef Afifi
- 6- **Course coordinator:** Dr. Atef Afifi
- 7- **External evaluator:** Non

B- Statistical Information

- 19- **No. of students attending the course:**
- 20- **No. of students completing the course:**
- 21- **Results:**

No.	142	100	%
No.	142	100	%

	No.	%
Passed	137	96.479
Failed	5	3.521

Grading of successful students:		
Grade	No.	%
A	51	35.916
B	31	21.82
C	34	23.943
D	21	14.789

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
Introduction to NC and CNC Machines			3
Basic Definitions of G-Codes			3
Different Types of G-Codes			6
Basic Terminology of G-Code (FUNOC)			6
Milling:			
– Work piece Installation			6
– Determination of Zero Position			6
– Definition and Applications of G58 , G52			6
– Definition and Applications of G00			6
– Definition and Applications of G01			6
– Definition and Applications of G02 , G03			12
Turning:			
– Definition and Applications of G58 , G52			6
– Definition and Applications of G00			6
– Definition and Applications of G01			6
– Definition and Applications of G02 , G03			6
Revisions			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 None

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

2- Teaching and learning methods:

- **Course notes:** Lecture notes
- **Required books:**
 - Software manuals.
- **Recommended books:** James V. Valentino, Ed V. Goldenberg and AAA Predator, 2012, Introduction to Computer Numerical Control, 5th Edition.

Practical training/ laboratory: WIN NC 32

Seminar/Workshop:

Class activity: Weekly

Case Study:

Other assignments/homework:

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

3- Student assessment:

Assessment Method		Timing	Grade (Degrees)
Mid-Term Exam		7-th Week	10
Semester Work	Quizzes	4 Quizzes (every 3 weeks) 2 degree for each one	4
	Reports	One report per semester	2
	Assignment	Bi-Weekly	4
Oral Exam		Fifteenth week	20
Written Exam		Sixteenth week	60
Total			100

Members of examination committee Dr. Atef Afifi

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies:

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course: 77 %

Response of course team Non

List any criticisms Non

7- Comments from external evaluator(s): 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 Non

9- Action plan for academic year 2016 – 2017

Actions required	Completion date	Person responsible
Non		
Course coordinator: Dr. Atef Afifi		
Signature:		
Date: 20/9/2016		

Semester's Course Report
Academic year: 2015 - 2016
Semester: Spring

A- Basic Information

- 1- **Title and code:** foundry technology, MNF 323
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Program.
 3- **Year/Level of program:** 4th Level Manufacturing / 1st term
 4- **Credit hours:** 3 Lectures Tutorial Practical
 5- **Names of lecturers contributing to the delivery of the course:**
 Assist Prof. Ibrahim mousa
 Course coordinator: Assist Prof. Ibrahim mousa
 External evaluator: None

B- Statistical Information

No. of students attending the course: 141
No. of students completing the course: 141
Results:

	No.	%	Grading of successful students:	
			No.	%
Passed	116	82.27		
Failed	25	17.73		
			Excellent	3 2.127
			Very Good	16 11.347
			Good	26 18.439
			Pass	71 51.354

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
• Introduction to foundry	2	-	-
• Steps involved in casting advantages, limitations and implications of casting process	2	1	
• Pattern types, allowances for pattern, pattern materials, color coding and storing of patterns.	3	2	4
• Molding methods and processes, materials, equipment, molding sand ingredients, essential requirements	2	2	2
• sand preparation and control, testing, cores and core making	2	1	2
• Design considerations in casting, gating and risers, and directional solidification in casting	3	2	4
• Sand castings, pressure die casting, permanent mould casting, centrifugal casting, precision investment, casting shell molding, CO2 molding, continuous casting, squeeze casting, electro slag casting	4	2	6
• feting, finishing, and casting defects	2	1	2
• Foundry remolding furnaces, selection of furnace, crucibles oil fired furnaces, electric furnaces cupola, calculation of cupola charges, hot blast cupola, degasification, inoculation, pouring equipment, and inspection of casting	4	2	6
• Need- Areas for mechanization, typical layout, sand reclamation techniques, and material handling	2	1	2
• Pollution control in foundry	2		
• Computers in casting process	2	1	2
Total hours	30	15	30

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

2- Teaching and learning methods:

- Lectures: Classical lecturing using the white board
- Practical training/ laboratory: Casing Workshop
- Seminar/Workshop: None
- Class activity: Assignments on design of molds and dies
- Case Study: None
- Other assignments/homework: Assignment reports

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	60
▪ Practical/laboratory work	20
▪ Other assignments/class work	10
▪ Mid-Term Exam	10
Total	100

Members of examination committee

Assist Prof. Ibrahim Mousa

Role of external evaluator

None

4- Facilities and teaching materials:

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

5- Administrative constraints

List any difficulties encountered

None

6- Student evaluation of the course:

List any criticisms

Response of course team

None

None

7- Comments from external evaluator(s):

Response of course team

None

None

8- Course enhancement:

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

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

9- Action plan for academic year 2016– 2017

Actions required

Completion date

Person responsible

None

None

Course coordinator: Assist. Prof. Ibrahim Mousa

Signature: Ibrahim Mousa

Date: September 2016

Semester Course Report (2015/2016)

A- Basic Information

- 1- Title and code: (MNF324) Machine Design (II)
- 2- Program(s) on which this course is given: Manufacturing Engineering & Prod. Tech. BSc Program.
- 3- Year/Level of program: Third Level Manufacturing Engineering, Spring Semester
- 4- Unit hours: Lectures Tutorial Practical Total
- 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. %
 No. of students completing the course: No. %

Results:

	No.	%	Grading of successful students:		
Passed	124	93.939		No.	%
Failed	8	6.061	Excellent	12	9.09
			Very Good	41	31.06
			Good	28	21.21
			Pass	43	32.57

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours
• Hydrodynamic bearings theory	4	2
• Hydrodynamic bearings design	2	6
• Rolling contact bearings	6	8
• Involute gear tooth	2	3
• Spur gears	4	8
• Helical gears	4	6
• Bevel gears	4	6
• Worm gears	4	6
Total hours	30	45

Topics taught as a percentage of the content specified:

>90 % 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:

Tutorials:

Practical training/ laboratory:

Seminar/Workshop:

Class activity: Numerical exercises; solution of problems by calculator or computer, drawing by AutoCAD 2004

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	<input type="text" value="70 %"/>
Oral examination	<input type="text" value="----"/>
Practical/laboratory work	<input type="text" value="----"/>
Other assignments/class work	<input type="text" value="10 %"/>
Mid-Term Exam	<input type="text" value="20 %"/>
Total	100 %

Members of examination committee

Prof. Dr. Serage Eldin Khalifa

Role of external evaluator

None

4- Facilities and teaching materials:

Totally adequate	<input type="text" value=".Yes."/>
Adequate to some extent	<input type="text" value="....."/>
Inadequate	<input type="text" value="....."/>
List any inadequacies	None

5- Administrative constraints

List any difficulties encountered

None

6- Student evaluation of the course:

Response of course team

List any criticisms

None

7- Comments from external evaluator(s):

Response of course team

None

8- Course Enhancement:

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

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

9- Action plan for academic year 2016 – 2017

Actions required	Completion date	Person responsible
<input type="text" value="None"/>		

Course coordinator: Prof. Dr Serage Eldin Khalifa

Signature:

Date: 15/8/2016

Semester's Course Report

Academic year: 2015 - 2016

Semester: Spring

A- Basic Information

- 1- **Course Code & Title:** (MNF325) Engineering Metrology
 2- **Program(s) on which this course is given:** Manufacturing Engineering & Prod. Tech. BSc Program
 3- **Year/Level of program:** Junior
 4- **Credit hours**
 Credit 3 hrs Lectures 2 hrs Tutorial 1 hrs Practical 2 hr
 5- **Names of lecturers contributing to the delivery of the course:** Prof. Dr. N Gadallah
 Dr Nasr Aref
 6- **Course coordinator:** Dr Nasr Aref
 7- **External evaluator:** Non

B- Statistical Information

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

No.	120	100	%
No.	120	100	%

	No.	%
Passed	102	85
Failed	18	15

Grading of successful students:		
Grade	No.	%
A	23	12.5
B	30	12.5
C	26	15
D	23	50

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
Errors in measurements.	4	2	4
Light waves as standard of length.	4	2	4
Standard for dimensional tolerances.	2	1	2
Linear measurements.-Angular measurements and circular divisions.	2	1	2
Limits and limit gauge design.-Machine tool metrology.	2	1	2
Gear measurements.-Thread measurements	2	1	2
Surface roughness measurements	2	1	2
Standard for shape and positional deviations	2	1	2
3-D measuring machines	4	2	4
Computer software for engineering metrology	4	2	4
Revision	2	1	2
Total hours	30	15	30

Topics taught as a percentage of the content specified:

>90 % 100 70-90 % <70%

Reasons in detail for not teaching any topic None

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

None, all of the missed teaching hours were substituted, in addition to the seminars arranged during the student's free day.

2- Teaching and learning methods:

- **Course notes:** N. Gadallah, Lecture notes of Metrology, Modern Academy, 2008
- **Required books**

- Recommended books: J.F.W. Galyer, "Metrology for Engineers", ELBS, 1998
- Periodicals, Web sites, etc.: www.HBM.com

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	Points	%
Written examination	60	60
Oral examination	0	0
Practical/laboratory work	20	20
Other assignments/class work	10	10
Mid-Term Exam	10	10
Total	100	100

Members of examination committee Dr. Nabil Gadallah & Dr. Nasr Aref

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered

6- Student evaluation of the course: 78%

Response of course team Non

List any criticisms Non

7- Comments from external evaluator(s):

Response of course team Non

8- Course enhancement:

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

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		

Course coordinator: Dr. Nasr Aref

Signature:

Date: 28/9/2016

Annual Course Report Academic year 2015-2016

A- Basic Information:

- 1- **Course Code & Title:** (ELC 317) Electrical Machines
- 2- **Program(s) on which this course is given:** Manufacturing Engineering & Prod. Tech. BSc Program.
- 3- **Year/Level of program:** Third Year/ Spring
- 4- **Credit hours**

Credit:	3 hrs	Lectures:	2 hrs	Tutorial:	1 hrs	Practical:	2 hr
----------------	-------	------------------	-------	------------------	-------	-------------------	------
- 5- **Names of lecturers contributing to the delivery of the course:** *Dr. Haytham Gamal.*
- 6- **Course coordinator:** *Dr. Haytham Gamal.*
- 7- **External evaluator:** None

B- Statistical Information:

- | | | | | |
|--|-----|-----|-------|---|
| 10- No. of students attending the course: | No. | 114 | 100 | % |
| 11- No. of students completing the course: | No. | 112 | 98.25 | % |

12- Results:

	No.	%
Passed	97	86.6
Failed	15	13.4

Grading of successful students:		
Grade	No.	%
A	11	9.82
B	8	7.14
C	31	27.68
D	47	41.96

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer
➤ Basic magnetic field laws.	2	1	-	Dr. Haytham Gamal.
➤ Magnetic material characteristics.	1	-	-	
➤ Magnetic circuit and transformer analysis.	3	2	4	
➤ DC machine construction and operation.	2	2	3	
➤ DC machine classification and applications	4	2	4	
➤ AC machine operation and equivalent circuit.	3	2	2	
➤ Speed control of AC motors.	2	-	3	
➤ Three phase motors operation and equivalent circuit.	3	2	2	
➤ Toque-speed characteristics of AC motors.	1	-	3	
➤ Synchronous machine operation and equivalent circuit.	2	2	4	
➤ Automobile alternators.	2	-	2	
➤ Single phase motors.	3	2	2	
➤ Stepper motor operation	2	-	1	
Total hours	30	15	30	

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a12	b1 to b5	c1 to c6	d1 to 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: *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)	There are few solved problem in the lecture.	The solved problem will be increased in the lectures.
(b)	Rate of the lecturer is fast than the rate of the assistance.	A better coordination with the assistant will be done to improve the integration between lecture and tutorial.

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	

8- Written Exam Evaluation:

The exam paper measures 79% of course ILO's measurable in written form and the variety of questions is practically balanced.

9- Action plan for academic year 2016 – 2017

Actions required	Completion date	Person responsible
Increase the solved problems in the lecture	Feb. 2016	Lecturer

Course coordinator: *Dr. Haytham Gamal.*

Signature:

Date: October 2016

Semester's Course Report
Academic year: 2015-2016
Semester: Fall

A- Basic Information

- 1- **Title and code:** (MNF 362) Seminar-2
 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc. Prog.
 3- **Year/Level of program:** Junior, 5th semester
 4- **Credit hours**
 Credit Hours: 1 Lectures: - Tutorial: 2 Practical: -
 Pre-requisite: Non
- 5- **Names of lecturers contributing to the delivery of the course**
 Dr. Abdelmagid A. Abdalla
 Course coordinator Prof. Dr. Nabil Gadallah
 External evaluator: None

B- Statistical Information

No. of students attending the course:	No. 113	<table border="1"><tr><td>100%</td></tr></table>	100%
100%			
No. of students completing the course:	No. 113	<table border="1"><tr><td>100%</td></tr></table>	100%
100%			
Results:			
	No.	%	
Passed	113	100	
Failed	0	0	
Grading of successful students:			
	No.	%	
Excellent	A+	16 14.16	
	A	32 28.3	
	A-	29 25.66	
Very	B+	23 20.35	
Good	B	9 7.96	
Good	C+	4 3.54	

C- Professional Information

1 – Course teaching

Topic Actually taught	Lecture hours	Tutorial hours	Practical hours
<ul style="list-style-type: none"> • The course consists of a number of seminars concerned with the development of technology and its impact to society, It covers the following areas: <ul style="list-style-type: none"> ✓ The definition and evolution of technology. ✓ Technology and society ✓ Technology and Innovation. ✓ Technology selection decision and social considerations ✓ Engineering design. ✓ Engineering problem solving. ✓ Human and social considerations in engineering design, and social problems. ✓ Concepts of the exploitation of technology for the advancement of human kind. 		30	
Total hours		24	

Topics taught as a percentage of the content specified:

>90 % 100 70-90 % <70%

Reasons in detail for not teaching any topic: The available time was 12 weeks

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

2- Teaching and learning methods:

Lectures:

Practical training/ laboratory:

Seminar/Workshop: weekly individual student's seminar

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	
Oral examination	100%
Practical/laboratory work	
Other assignments/class work	
Mid-Term Exam	
Total	100 %
Members of examination committee	
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 None

6- Student evaluation of the course: None

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

Actions required	Completion date	Person responsible
None		

Course coordinator: Dr. Abdelmagid A. Abdalla

Signature:

Date: 15/3/2016

Annual Course Report Academic year 2015-2016

A- Basic Information

- 1- **Title and code:** (ELC316) Electro Engineering
- 2- **Program(s) on which this course is given:** Prod. Eng. and manuf. Tech. Program.
- 3- **Year/Level of program:** Third Year (Second Grade)
- 4- **Unit hours** Lectures Tutorial Practical Total
- 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. %

No. of students completing the course: No. %

Results:

	No.	%
Passed	137	96.5
Failed	5	3.5

Grading of successful students:

	No.	%
Excellent	38	26.8
Very Good	44	31.0
Good	28	19.7
Pass	27	19.0

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Introduction: Needs for electric engineering and fluid flow analogy	3	Prof. Dr. Ir. Mostafa Sayed AFIFI
• Electromagnetic standards	3	
• Charges, Currents, Voltages and Fields	3	
• Electric and Electronic Circuits	3	
• Transmission lines and propagation	2	
• Electric Forces and Radiated fields		
• Classification and basic designs	3	
• AC and DC arrangements	3	
• Direction of propagation in air and on wires	2	
• Ohms Law and circuit analysis		
• Node Voltages and Mesh Currents	4	
• Practical applications of strain gauges and Wheatstone Br	3	
• Operational Amplifiers, Inversion, non-inversion, Adders and subtractions.	3	
• Capacitance and Inductance, its construction, calculations and first order transients. Applications and first order transients.	3	
• LabVIEW application	2	
• Digital applications and stepper motors	2	
• Analysis and Design of practical Circuits and Motors	2	
Total hours	41	

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic Semiconductors and Motors 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 & LabVIEW

Case Study: Selected case studies

Other assignments/homework: Bi-weekly, weekly and Quizzes 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	60.0 %
Oral examination	----
Practical/laboratory work	20 %
Other assignments/class work	10 %
Mid-Term Exam	10 %
Total	100 %

Members of examination committee Prof. Dr. Ir. Mostafa S. Afifi

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate Yes

Adequate to some extent

Inadequate

List any inadequacies: Non

5- Administrative constraints

List any difficulties encountered

- imitation of lecture hours is limiting the full verification of course objectives.
- The number of operating Lab experiments are being expanded.

6- Student evaluation of the course:

Response of course team

List any criticisms

- (a) Indications are that good 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 and power steering with modeling of mechanical system with electric circuits.

7- Comments from external evaluator(s):

Response of course team

8- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment
Put more functional experiments in the lab.	2016	
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
Formation of new details of ELC316 Electro Engineering	July 2019	Prof. Dr. Ir. Mostafa Afifi

Course coordinator: Prof. Dr. Ir. Mostafa Afifi

Signature:

Date: 1/9/2016

Semester's Course Report Academic year: 2015-2016 Semester: Fall

A- Basic Information

- 1- Title and code: (MNF 361) Seminar-1
- 2- Program(s) on which this course is given: Manufacturing Engineering & Prod. Tech. BSc. Program
- 3- Year/Level of program: Junior, 5th semester
- 4- Credit hours: 1hr Lectures: - Tutorial: 2 Practical: - Pre-requisite Non
- 5- Names of lecturers contributing to the delivery of the course
 Dr. Abdelmagid A. Abdalla
 Course coordinator Prof. Dr. Nabil Gadallah
 External evaluator: Non

B- Statistical Information

No. of students attending the course: No. 156 %
 No. of students completing the course: No. 148 %

Results:

	No.	%
Passed	147	99.32
Failed	1	0.68

Grading of successful students:

	No.	%
Excellent	48	32.432
Very Good	70	47.297
Good	14	9.459
Pass	15	10.135

C- Professional Information

1 – Course teaching

Topic Actually taught	Lecture hours	Tutorial hours	Practical hours
The course consists of a number of seminars concerned with the development of technology and its impact to society, It covers the following areas: ✓ The definition and evolution of technology. ✓ Technology and society ✓ Technology and Innovation. ✓ Technology selection decision and social considerations ✓ Engineering design. ✓ Engineering problem solving. ✓ Human and social considerations in engineering design, and social problems. ✓ Concepts of the exploitation of technology for the advancement of human kind.		30	
Total hours		30	

Topics taught as a percentage of the content specified:

>90 % 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:

Practical training/ laboratory:

Seminar/Workshop: weekly individual student's seminar

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

Oral examination

100%

Practical/laboratory work

Other assignments/class work

Mid-Term Exam

Total

100 %

Members of examination committee

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

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

List any criticisms

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

Actions required

Completion date

Person responsible

Non

Course coordinator: Dr. Abdelmagid A. Abdalla

Signature:

Date:

28/9/2016

2016/2017

Senior 1, Seventh Semester

Code	Course
MNF 411	Mechanical Measurements
MNF 421	Joining Processes
MNF 412	Industrial Operations Research
MNF 462	Industrial Training (1)
MNF 422	Computer Numerical Control, CNC, MACHINES
GEN354 GEN 353 GEN351	Elective-2: a) Sound systems and Noise Pollution b) Management and International Business, and total quality management. c) Engineering Economy

Senior 1, Eighth Semester

Code	Course
MNF 423	Computer Aided Design (CAD)
MNF424	Advanced Materials and Composite
MNF413	Automatic Control
MNF425	Modern Manufacturing Methods
MNF 433 MNF 431 MNF 432	Elective-1: a) Production and Operations Management. b) Heat Transfer C) Mechanical Vibrations
MNF461	Project-1

Annual Course Report Academic year 2016-2017

A- Basic Information

- 1- **Course Code & Title:** (MNF 411) Mechanical Measurements
 2- **Program(s) on which this course is given:** Manuf. Eng. and Prod. Tech. BSc Program
 3- **Year/Level of program:** Fourth Year/Third level
 4- **Teaching/Credit hours :3 Lecture: 2 Tutorial: 1 Practical: 2**
 5- **Names of lecturers contributing in teaching the course:** Prof. Dr. Nabil Gadallah
 6- **Course coordinator:** Prof. Dr. Nabil Gadallah
 7- **External evaluator:** Non

B- Statistical Information

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

Results:

	No.	%
Passed	108	98.2
Failed	2	1.8

Grading of successful students:		
Grade	No.	%
Excellent	18	16.4
Very Good	34	30.9
Good	33	30
Pass	25	22.7

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
System Characteristics & Standards of Measurements	4	2	4
System Response		1	2
Traceability, Repeatability & Accuracy	2	1	2
Sensors (Sensing Elements)	2	1	2
Dimensional & Displacement Measurements	2	1	2
Strain Measurement	2	1	2
Measurement of Time, Speed, Acceleration & Frequency	2	1	2
Measurements of Force, Torque & Power	2	1	2
Measurement of Pressure	2	1	2
Temperature Measurement	2	1	2
Measurement of Liquid Level	2	1	2
Measurement of Fluid Flow	2	1	2
Data Acquisition System	2	1	2
Indicating & Recording Instruments	2	1	2
Revision	2		
Total hours	30	15	30

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

Reasons in detail for not teaching any topic: Forced reduction due to political situation

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 a3	b1 to b5	c1 to c4	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	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. Nabil Gadallah and Prof. 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:

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	

8- Written Exam Evaluation

➤ The exam level is convenient, considering the percentage of success.

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 2017 – 2018

Non

Course coordinator: Prof. Dr. Nabil Gadallah

Signature:

Date: February 2017

Semester's Course Report
Academic year: 2016- 2017
Semester: Fall

A- Basic Information

- 1- **Course Code & Title:** (MNF421) Joining Processes.
- 2- **Program(s) on which this course is given:** Manufacturing Eng. and Prod. Tech. BSc Program
- 3- **Year/Level of program:** : 4th year
- 4- **Credit hours:** 3 Lectures: 2 hrs Tutorial : 1 hr Practical: 2 hrs
- 5- **Names of lecturers contributing to the delivery of the course:** Dr. Elsayed Kamar
- 6- **Course coordinator:** Dr. Elsayed Kamar
- 7- **External evaluator:** Non

B- Statistical Information

- 1- **No. of students attending the course:** **No.**

110	100	%
-----	-----	---
- 2- **No. of students completing the course:** **No.**

110	100	%
-----	-----	---
- 3- **Results:**

	No.	%
Passed	110	100
Failed	-	-

Grading of successful students:		
Grade	No.	%
A	31	28.182
B	54	49.091
C	23	20.91
D	2	0.909

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
• Introduction. Classification of joining. Basic concepts. Economic importance of joining. Typical industrial applications, and welding symbols	4	1	2
• Soldering and brazing. Practice of soldering. Joint types and preparation. Fluxes. Heat sources and heat transfer. Different types of brazing. Braze welding.	2	2	4
• Welding. Oxy-acetylene welding, arc welding, resistance welding, spot welding, electron beam welding, thermite welding, MIG< TIG, and MAG etc. Practice, joint design and preparation. Filler materials	4	2	4
• Basic science of joining processes. Sources of heat energy, the flame, the electric arc, chemical reactions during welding, oxidation reaction, and protection of weld pool with fluxes or gases. Theory of distortion.	3	1	3
• Metallurgy of welding. Microstructure changes during welding, the effect of heat on metals. Pre-treatment and post-treatment of welds. Behavior of ferrous and nonferrous metals. Fracture of welds.	3	1	3
• Inspections and tests of welds and joints. Mechanical testing. Non-destructive testing. Weld defects.	3	2	3
• Adhesives. Contact adhesives. Polyester, polyamide, and polyurethane melt adhesives. Toughened acrylic and epoxy adhesives. Silicone adhesives. Mechanical properties and fracture mechanics. Joint design.	4	2	4
• Joining of ceramics. Metal/ceramic joining and ceramic/ceramic joining. Thermo-chemical considerations.	4	2	4
• Diffusion bonding. Brazing methods. Joint design	3	2	3
Total hours	30	15	30

Topics taught as a percentage of the content specified:

>90 % 100 70-90 % <70%

Reasons in detail for not teaching any topic None

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

None, all of the missed teaching hours were substituted.

2- Teaching and learning methods:

- **Course notes:** Lecture notes and Handouts
- **Required books:** Non.
- **Recommended books:** The Welding Handbook, 2005, 14th edition
- **Periodicals, Web sites, etc.:**
Available relevant Web sites

Practical training/ laboratory:

Seminar/Workshop:

Class activity: Weekly

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, None

3- Student assessment:

Assessment Method	Timing	Grade (Degrees)
Semester Work: seminars, quizzes assignments and reports	Bi-Weekly	10
Mid-Term Exam	8-th Week	10
Practical Exam	Fifteenth week	20
Written Exam	Sixteenth week	60
Total		100

Members of examination committee Dr. Elsayed Kamar

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 Non

List any criticisms Non

7- Comments from external evaluator(s):

Response of course team Non

8- Course enhancement:

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

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

9- Action plan for academic year 2017 – 2018

Actions required	Completion date	Person responsible
Non		

Course coordinator: Dr. Elsayed Kamar

Signature:

Date: 1/7/2017

Semester Course Report 2016/2017 Spring

A- Basic Information

1- Title and code: (GEN351) Engineering Economics

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

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

3- Year/Level of program: Third Level

4- Unit hours: 2 Credits Lectures Tutorial Practical Total

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

Dr. Metwally H. Metwally

Course coordinator Dr. Abdelmagid A. Abdalla

External evaluator: None

B- Statistical Information

No. of students attending the course: No.

No. of students completing the course: No.

Results:

	No.	%
Passed	10	62.5
Failed	6	37.5

Grading of successful students:

		No.	%
Excellent	A+	0	0
	A	0	0
	A-	0	0
Very Good	B+	0	0
	B	0	0
Good	C+	0	0
	C	2	12.5
Pass	D+	1	6.25
	D	5	31.25
	D-	2	12.5

C- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Cash Flow	2	Dr. Abdelmagid A. Abdalla,
• Compound Interest:	6	
• Time Value of Money	2	
• Nominal and Effective Interest	2	
• Engineering Problem Analysis:	6	
• Depreciation	4	
• Tax effects	2	
• Breakeven point & payback period	-	
Total hours	24	

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic The term actually was 12 weeks

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

2- Teaching and learning methods:

Lectures:

Practical training/ laboratory:

Seminar/Workshop:

Class activity: Numerical exercises.

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	<input type="text" value="70 %"/>
Oral examination	----
Practical/laboratory work	----
Other assignments/class work	<input type="text" value="10 %"/>
Mid-Term Exam	<input type="text" value="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

Adequate to some extent

Inadequate

List any inadequacies: None

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course:

List any criticisms	Response of course team
- None	- None.

7- Comments from external evaluator(s):

None

Response of course team

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 2017– 2018

Actions required	Completion date	Person responsible
None	None	None

Course coordinator: Dr. Abdelmagid A. Abdalla

Signature:

Date: 28/7/2017

Annual Course Report For Academic year 2016/2017

A- Basic Information

- 1- Title and code: **Industrial Operations Researches: MNF 412**
 2- Program(s) on which this course is given: Manufacturing Engineering & prod. Tech. BSc. Program
 3- Year/Level of program: 3rd level
 4- Unit hours: 3 Credits Lectures: Tutorial: Practical: Total:
 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: 110 100%
 No. of students completing the course: 110 100%

Results:

	No.	%
Passed	101	91.8
Failed	9	8.2

Grading of successful students:

	No.	%
Excellent	21	20.8
Very Good	22	21.8
Good	28	27.7
Pass	30	29.7

C- Professional Information

1- Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. An Introduction to Linear Programming.	2	2	-
2. Linear Programming (LP) sensitivity analysis.	2	2	-
3. Linear Programming applications for industrial plants	2	2	-
4. Transportation model solution and applications	4	4	-
5. Assignment problem, applications in production lines	4	4	-
6. Integer linear programming applications	4	4	-
7. Project scheduling: PERT, CPM	4	4	-
8. Network models applications for production line	2	2	-
9. Waiting line models	2	2	-
10. Decision analysis	2	2	-
11. Dynamic Programming Applications	2	2	-
Total	30	30	-

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

2- Teaching and learning methods:

- Lectures:
- Practical training/ laboratory:
- Seminar/Workshop:
- Class activity: Solution of Problems
- 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	20
▪ Mid-Term Exam	10
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	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 2017 – 2018

Actions required

Completion date

Person responsible

Non

Course coordinator:

Dr. Mohamed Saad Abdelkarim

Signature:

Date: 1/11/2017

Annual Course Report Academic year: 2016-2017

A- Basic Information

- 1- Title and code: (MNF 462) Industrial Training 1
- 2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc. Program
- 3- Year/Level of program: Fourth Level
- 4- Credit hours: 3 Lec.: 1 Tutorial: - Practical: 4 Pre-requisite: 65 Credit Hours
- 5- Names of lecturers contributing to the delivery of the course

Training Sites

Course coordinator Dr. Abdelmagid A. Abdalla

External evaluator: None

B- Statistical Information

No. of students attending the course: No. 172 100 %

No. of students completing the course: No. 146 85 %

Results:

	No.	%
Passed	145	99.5
Failed	1	0.5

Grading of successful students:

	No.	%
Excellent	118	81.4
Very Good	20	13.8
Good	0	0
Pass	7	4.8

C - Professional Information

Contents

Topic	Lecture hours	Tutorial hours	Practical hours
<ul style="list-style-type: none"> • Practical industrial training for two weeks- during the vacation at the end of the 6th semester- in a recognized industrial establishment. • At the end of the training, student should submit a report with the following information: <ul style="list-style-type: none"> ✓ Profile of the industry ✓ Organization structure. ✓ Product range ✓ Processes ✓ Machines, equipment, devices. ✓ Personnel welfare scheme ✓ Details of the training undergo <p style="margin-left: 20px;">Projects undertaken during the training.(if any)</p>	10		40
Total hours	10		40

Topics taught as a percentage of the content specified:

>90 % 70-90 % 80 <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: Daily Lecture

Practical: Daily.

Other assignments/homework: By the end of training

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	0
Oral examination	40
Practical/laboratory work	60 %
Other assignments/class work	0
Mid-Term Exam	0
Total	100 %
Members of examination committee	Dept. Teaching Staff
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

6- Student evaluation of the course:

List any criticisms	Response of course team
None	None.

7- Comments from external evaluator(s): 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 2017 – 2018

Actions required	Completion date	Person responsible
Non		

Course coordinator: Dr. Abdelmagid A. Abdalla

Signature:

Date: 28/9/2017

Semester's Course Report
Academic year: 2016 - 2017
Semester: Fall

A- Basic Information

- 1- **Course Code & Title:** (MNF422) Computer Numerical Control
- 2- **Program(s) on which this course is given:** Manufacturing Eng. and Prod. Tech. BSc Program
- 3- **Year/Level of program:** : 3th Level
- 4- **Credit hours:** 3 Lectures 2 hrs Tutorial 1 hr Practical 2 hrs
- 5- **Names of lecturers contributing to the delivery of the course:** Dr. Atef Afifi
- 6- **Course coordinator:** Dr. Atef Afifi
- 7- **External evaluator:** Non

B- Statistical Information

- 4- **No. of students attending the course:**
- 5- **No. of students completing the course:**
- 6- **Results:**

No.	123	100	%
No.	123	100	%

	No.	%
Passed	119	96.748
Failed	4	3.252

Grading of successful students:		
Grade	No.	%
A	28	22.764
B	43	34.959
C	30	24.39
D	18	14.634

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
• Definition and applications of Computer Numerical Control (CNC)	2	1	3
• Review on Basic codes of G&M code	2	1	3
• Rectangular and circular pocket programming	2	1	1
• Centering and Deep hole drilling cycles and manufacturing of row of holes	2	1	3
• Definition of different strategies of external and internal turning	4	2	4
• Definition of local coordinate system	2	1	1
• Grooving cycle in turning	2	1	1
• Reaming and Tapping cycles	2	1	2
• Scale, Mirror and polar techniques	4	2	4
• Threading cycle in turning	2	1	2
• Axis rotation techniques	2	1	2
• Introduction to parametric programming	2	1	3
• Revision	2	1	1
Total hours	30	15	30

Topics taught as a percentage of the content specified:

>90 % 100 70-90 % <70%

Reasons in detail for not teaching any topic None

If any topics were taught which are not specified, give reasons in detail: None, all of the missed teaching hours were substituted.

2- Teaching and learning methods:

- **Course notes:** Lecture notes
- **Required books:**
 - Software manuals.

Recommended books: James V. Valentino, Ed V. Goldenberg and AAA Predator, 2012, Introduction to Computer Numerical Control, 5th Edition.

Practical training/ laboratory: WIN NC32

Seminar/Workshop:

Class activity: Weekly

Case Study:

Other assignments/homework:

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

3- Student assessment:

Assessment Method		Timing	Grade (Degrees)
Mid-Term Exam		7-th Week	10
Semester Work	Quizzes	4 Quizzes(every 3 weeks)2 degree for each one	4
	Reports	One report per semester	2
	Assignment	Bi-Weekly	4
Practical Exam		Fifteenth week	20
Written Exam		Sixteenth week	60
Total			100

Members of examination committee Dr. Atef Afifi

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies:

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course:

Response of course team 50 %

List any criticisms Non

7- Comments from external evaluator(s):

Response of course team Non

8- Course enhancement:

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

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

9- Action plan for academic year 2017 – 2018

Actions required

Completion date

Person responsible

Non

Course coordinator: Dr. Atef Afifi

Signature:

Date: 20/9/2017

**Semester Course Report
Academic year 2016-2017
Spring term**

A- Basic Information

- 1- Title and code: (MNF 423) Computer Aided Design
- 2- Program(s) on which this course is given: Prod. Eng. and manuf. Tech. BSc Program.
- 3- Year/Level of program: 3rd. Level
- 4- Unit hours Lectures 2hrs Tutorial 1hrs Practical 2 Total
- 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. %

No. of students completing the course: No. %

Results:

	No.	%	Grading of successful students:		
Passed	105	98.131		No.	%
Failed	2	1.869	Excellent	16	14.95
			Very Good	44	41.12
			Good	23	21.50
			Pass	22	20.56
			Failed	2	1.87

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. Nabil Gadallah
CHAPTER 2: Review of Numerical Techniques for CAD	14	
CHAPTER 3: Principles of Computer Graphics	14	
CHAPTER 4: Computer Graphics and Design	14	
CHAPTER 5: Introduction to Design Databases	7	
CHAPTER 6: Overview of the Finite Element Method	14	
CHAPTER 7 Elastic Stress Analysis by the Finite Element Method	21	
CHAPTER 8: Design Optimization	14	
Total	90	

Topics taught as a percentage of the content specified:

>90 % 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:

Practical training/ laboratory: computer supported learning

Seminar/Workshop:

Two Seminars were arranged by the students:

- (a) Principles of Computer Graphics
- (b) Overview of the Finite Element Method

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:

Tools	Time schedule	Grading in points
Assignments and quizzes	weekly	10
Mid-Term Exam	6 th . week	10
Practical Exam	15 th . week	20
Final Written exam	16 th . week	60
Total		100

Members of examination committee

Dr. Nabil Gadallah

Role of external evaluator

None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

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

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 2017 – 2018

Actions required

Completion date

Person responsible

None

None

None

Course coordinator:

Prof. Dr. Nabil Gadallah

Signature:

Date: 3/01/2017

Annual Course Report Academic year 2016-2017

A- Basic Information

- 1- **Course Code & Title:** (MNF413) Automatic Control
 2- **Program(s) on which this course is given:** Manufacturing Eng. and Prod. Tech. BSc Program
 3- **Year/Level of program:** Fourth Year/Second Semester
 4- **Credit hours:** 3 Lectures: 2 hrs Tutorial: 1 hr Practical: 2 hrs
 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.	123	100 %
8- No. of students completing the course:	No.	123	100 %

9- Results: of the written exam.

	No.	%
Passed	80	65
Failed	43	35

Grading of successful students:		
Grade	No.	%
A	10	12.5
B	14	17.5
C	19	23.7
D	37	46.3

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
• Introduction, basic definitions and terminology	2		
• Mathematical topics	3	4	
• Transfer functions, definition and case studies	4	4	
• Block diagrams; conventions, block diagram algebra and reduction of block diagrams.	3	2	
• Signal flow graphs; definition, conventions and Mason's formula	3	-	
• Time domain analysis			
• Transient response of proportional, integrating and first order elements.	3	2	
• Transient response of second order elements. Effect of location of roots of characteristic equation on the transient response	4	4	
• System identification based of the transient response.	3	2	
• Instruments, sensors and controllers			10
• Level control			4
• Flow control			4
• Speed control			4
• Temperature control			4
• Robotic arm control			4
• Frequency response			
• Frequency response; Polar plot and Bode plots.	3	2	
• System identification based of the transient and frequency responses.	3	2	
• Accuracy of feedback systems; steady state error.	3	2	
• Stability of feedback systems; Routh-Hurwitz and Nyquist stability criteria.	3	2	
• Root locus analysis	2	-	

• Compensation of control systems	3	2	
• Design and tuning of P, PI and PID controllers	3	2	
Total hours	30	15	30

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	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: 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:

Questionnaire Results

Course	62%
Lecturer	71%
Assistant	72%
Book	74%
Assessment	65%
Laboratory	33%

Comments

	List any criticisms	Response of course team
(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 2020. More experiments will be available

Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	

7- Written Exam Evaluation

- The exam header agrees with the MAM standard form
- The written exam covers 75% of the course ILO's in a balanced form.
- The Teaching and learning methods should be revised together with the relevant lab work.
- The exam considers the course aims listed in the course specification.
- The exam level is acceptable, considering the percentage of success.
- The exam addresses the fundamentals of the automatic control.
- The too low level of points of question 4 imposes the need to revise the teaching and learning methods of the ILO's covered by quest 4 together with the relevant lab work.

8- 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
e) Non		

9- Action plan for academic year 2017 – 2018

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 2020.	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

Course coordinator: Prof. Dr M Galal Rabie

Signature:

Date: July 2017

Semester's Course Report Academic year:2016-2017 Semester: Spring

A- Basic Information

- 1- Course Code & Title:(MNF425) Modern Manufacturing Methods
 2- Program(s) on which this course is given: Manufacturing Engineering & Prod. Tech. BSc Program
 3- Year/Level of program: :3rd Level
 4- Credit hours
 Credit 3hrs Lectures 2hrs Tutorial 1hrs Practical 2hr
 5- Names of lecturers contributing to the delivery of the course: Prof. Ahmed Kohail
 6- Course coordinator: Prof. Ahmed Kohail
 7- External evaluator: Non

B- Statistical Information

- 10- No. of students attending the course: No.

112	100	%
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 11- No. of students completing the course: No.

112	100	%
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 12- Results:

	No.	%
Passed	104	92.8
Failed	8	7.2

Grading of successful students:		
Grade	No.	%
A	11	10.6
B	22	21.2
C	31	30.4
D	40	37.8

C- Professional Information

1- Course teaching

Lecturer: Prof. Dr.A.M.Kohail

Topic	Lecture hours	Tutorial hours	Practical hours
• Introduction to Non-Traditional Machining	2	1	-
• Electro-Discharge Machining (EDM)	6	3	26
• Electro Chemical Machining (ECM)	4	3	4
• Laser beam Machining (LBM)	4	1	-
• Electron beam Machining (EBM)	2	-	-
• Ultrasonic Machining (USM)	2	1	-
• Abrasive jet Machining (AJM)	2	1	-
• Water jet Machining (WJM)	2	2	-
• Abrasive water jet Machining (AWJM)	2	1	-
• Chemical Machining (CHM)	2	1	-
• Plasma Arc Machining (PAM)	2	1	-
• Total hours	30	15	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:
- Practical training/ laboratory:
- Seminar/Workshop:

- **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:

Assessment Method	Timing	Grade (Degrees)
Semester Work: seminars, quizzes assignments and reports	Bi-Weekly	10
Mid-Term Exam	8-th Week	10
Practical Exam	Fifteenth week	20
Written Exam	Sixteenth week	60
Total		100

Members of examination committee **Prof. Ahmed Kohail**
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 **64%**
List any criticisms **Non**

7- Comments from external evaluator(s):

Response of course team **Non**

8- Course enhancement:

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

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

9- Action plan for academic year 2017 – 2018

Actions required	Completion date	Person responsible
Non		

Course coordinator: **Prof.A.KOHAIL**

Signature:

Date: **25/9/2017**

**Semester's Course Report
Academic year: 2016 - 2017
Semester: Spring**

A- Basic Information

- 1- **Course Code & Title:** (MNF424) Advanced Composite materials
- 2- **Program(s) on which this course is given:** Manufacturing Eng. & Prod. Tech. BSc Prog.
- 3- **Year/Level of program:** Third
- 4- **Credit hours**
 Credit 3 hrs Lectures 2 hrs Tutorial 1hrs Practical 2hr
- 5- **Names of lecturers contributing to the delivery of the course:** Dr. Maher Khalifa
- 6- **Course coordinator:** Dr. Maher Khalifa
- 7- **External evaluator:** Non

B- Statistical Information

- 1- **No. of students attending the course:** No. **103** **100** %
- 2- **No. of students completing the course:** No. **103** **100** %
- 3- **Results:**

	No.	%
Passed	102	99.029
Failed	1	0.971

Grading of successful students:		
Grade	No.	%
A	11	10.68
B	26	25.243
C	32	31.068
D	33	32.039

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
• Engineering materials (Types and applications)	1	2	2
• Materials selections		3	
• Qualitative material selection	2		
• Quantitative material selection	2		2
• Concept of cost per unit property	2		
• Case study of metal substitutions	2		
• Materials for low temperature applications-Polymer (structure, properties, behavior, classifications)	2	3	2
• Materials for high temperature applications-Ceramic (structure, properties, behavior, classifications)	2		2
• Composite materials-high performance materials			
• Structure, properties, behavior, classifications	2	4	4
• Composite design guide and architectural	2		4
• Raw materials for part fabrications	2		4
• Product development & Product life cycle	2		
• Design for Assembly Manufacturing	2	3	2
• Failure Mode and Effect Analysis (FMEA)	2		
• Manufacturing techniques			2
• Reinforcement manufacturing-(CF, GF, others)	1		2
• Composite manufacturing	2		2
• Recycling of composites	1		2
• New trends in material technology	1		
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 None
 If any topics were taught which are not specified, give reasons in detail
 None, all of the missed teaching hours were substituted

2- Teaching and learning methods:

Lecture: bi-weekly Lecture

Practical training/ laboratory: weekly Practical Training

Seminar/Workshop:

Class activity:

Case Study:

Other assignments/homework: assignments

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

3- Student assessment:

Method of assessment	Points	%
Written examination	60	60
Oral examination	0	0
Practical/laboratory work	20	20
Other assignments/class work	10	10
Mid-Term Exam	10	10
Total	100	100

Members of examination committee Dr. Maher Khalifa

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:

758%

Response of course team

Non

List any criticisms

Non

7- Comments from external evaluator(s):

Response of course team Non

8- Course enhancement:

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

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

9- Action plan for academic year 2017 – 2018

Actions required

Completion date

Person responsible

Non

Course coordinator: Dr. Maher Khalifa

Signature:

Date: 10/6/2017

Annual Course Report

Academic year 2016-2017

A- Basic Information

1- Course Code & Title: (GEN353) ادارة أعمال دولية

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

Manufacturing Engineering & Production Technology BSc Program
Electronic Engineering and Communication Technology BSc Program
Computer Engineering and Information Technology BSc Program

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

4- Credit hours

Total hrs Lectures 2 hrs Tutorial - Practical -

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

Dr. Shimaa Lotfy

6- Course coordinator: Dr. Shimaa Lotfy

7- External evaluator: None

B- Statistical Information

1- No. of students attending the course:

No. 237 100 %

2- No. of students completing the course:

No. 220 84.4 %

3- Results:

	No.	%
Passed	220	84.4
Failed	17	5.4

Grading of successful students:		
Grade	No.	%
Excellent	40	18.18
Very Good	46	20.9
Good	44	20
Pass	90	40.9

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecturer
	Plan.	Actual	
مفهوم الادارة	4		Dr. Shimaa
مفهوم التخطيط	4		
صناعة و اتخاذ القرارات	4		
الهيكل التنظيمية	4		
القيادة و التوجيه	5		
ادارة الأعمال الدولية	4		
مفهوم ادارة الجودة الشاملة	5		
Total hours	30		

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: on

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

Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a3	b1 to b3	-	d1 to d3

2- Teaching and learning methods:

Lectures: Lecture, discussions, tutorials, problem solving and modeling
Practical training/ laboratory: Non
Seminar/Workshop: Lecture
Class activity: Non

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	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	30	30
Mid-Term Exam	Non	0
Total	100	100

Members of examination committee: Dr. شيماء لطفى

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:

Non

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	Non

8- Written Exam Evaluation

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:

9- Action plan for academic year 2017– 2018

Actions required	Completion date	Person responsible
Non	January 2015	Dr shimaa lofty

Course coordinator: Dr.Shimaa Lofy

Signature:

Date: September 1, 2017

Annual Course Report

Academic year: 2016 - 2017

Semester: spring

A- Basic Information

- 1- Course Code & Title: (MNF 432) Mechanical Vibrations
- 2- Program(s) on which this course is given: Manuf. Eng. and Prod. Tech. BSc Program
- 3- Year/Level of program: 4th/3
- 4- Credit hours
 Credit 3 hrs Lectures 2 hrs Tutorial 1 hrs Practical 2
- 5- Names of lecturers contributing to the delivery of the course: Assoc. Prof. Gaafar Hussein
- 6- Course coordinator: Assoc. Prof. Gaafar Hussein
- 7- External evaluator: Non

B- Statistical Information

- 13- No. of students attending the course:

No.	58	100	%
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- 14- No. of students completing the course:

No.	58	100	%
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15- Results:

	No.	%
Passed	56	96.55
Failed	2	3.45

Grading of successful students:		
Grade	No.	%
A	15	25.86
B	21	36.21
C	14	24.14
D	6	10.34

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 % 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 a1 to a4	Intellectual skills b1 to b4	Applied Skills c1 to c4	General transferable skills d1 to d2
---------------------------------------	---------------------------------	----------------------------	---

2- Teaching and learning methods:

Lecture, presentations, discussions, tutorials, problem solving, self-learning

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:

Assoc. Prof. Gaafar A. Hussein

Role of external evaluator:

Non

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies:

Non

5- Administrative constraints (List any difficulties encountered): None

6- Student evaluation of the course:

(a)	List any criticisms	Response of course team
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7- Comments from external evaluator(s):

(a)	Comment	Response of course team
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8- Written Exam Evaluation

- The exam level is convenient, considering the percentage of high grades.
- The whole exam result shows considerable weakness in engineering units.

9- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment

9- Action plan for academic year 2017 – 2018

Actions required	Completion date	Person responsible
(a)		

Course coordinator:

Assoc. Prof. Gaafar A. Hussein

Signature:

Date:

September 15, 2017

**Semester's Course Report
Academic year: 2016 - 2017
Semester: Spring**

A- Basic Information

- 1- **Course Code & Title:** (MNF433) Production & Operations Management
- 2- **Program(s) on which this course is given:** Manufacturing Engineering & Prod. Tech. BSc Program
- 3- **Year/Level of program :** 3rd Level
- 4- **Credit hours**
 Credit 3 hrs Lectures 2hrs Tutorial 1 hrs Practical 2 hr
- 5- **Names of lecturers contributing to the delivery of the course:** Dr. Mohamed Saad
- 6- **Course coordinator:** Dr. Mohamed Saad
- 7- **External evaluator:** Non

B- Statistical Information

- 16- **No. of students attending the course:**
- 17- **No. of students completing the course:**
- 18- **Results:**

No.	66	100	%
No.	66	100	%

	No.	%
Passed	60	90.9
Failed	6	9.1

Grading of successful students:		
Grade	No.	%
A	5	8.3
B	12	20
C	20	33.3
D	23	38.4

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1- Introduction	2	1	2
2- Production system	2	1	2

3- Break-Even Analysis	2	1	2
4- Capacity Planning	2	1	2
5 - Forecasting	4	2	4
6- Product / Service Design	2	1	2
7- Inventory Management	4	2	4
8- Material Requirement Management (MRP)	4	2	4
9- Aggregate Planning	4	2	4
10- Scheduling and Dispatching	4	2	4
Total hours	30	15	30

Topics taught as a percentage of the content specified:

>90 % 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.

2- Teaching and learning methods:

- **Course notes:** Production and Operations Management (Lecture notes)
- **Required books:** Lecture notes.
- **Recommended books:** William J. Stevenson, "Operations management", Printic Hall, Eighth edition, 2001
- **Periodicals, Web sites, etc.:** Available relevant Web sites

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: None

3- Student assessment:

Assessment Method	Timing	Grade (Degrees)
Semester Work: seminars, quizzes assignments and reports	Bi-Weekly	10
Mid-Term Exam	8-th Week	10
Practical Exam	Fifteenth week	20
Written Exam	Sixteenth week	60
Total		100

Members of examination committee Dr. Mohamed Saad

Role of external evaluator Non

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered

6- Student evaluation of the course: **64 %**

Response of course team **Non**

List any criticisms **Non**

7- Comments from external evaluator(s):

Response of course team **Non**

8- Course enhancement:

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

9- Action plan for academic year 2017 – 2018

Actions required	Completion date	Person responsible
Non		

Course coordinator: Dr. Mohamed Saad

Signature:

Date: 25/9/2017

Semester’s Course Report
Academic year: 2016-2017
Semester: Spring

A- Basic Information

- 1- Title and code: (MNF 461) Project 1
- 2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc. Program
- 3- Year/Level of program: Third Level
- 4- Credit hours: 2 Lec.: 1 Tutorial: - Practical: 3 Pre-requisite: MNF362
- 5- Names of lecturers contributing to the delivery of the course
 All teaching Staff members
 Course coordinator Dr. Metwally H. Metwally
 External evaluator: None

B- Statistical Information

No. of students attending the course: No. 150 100%

No. of students completing the course: No. 150 100%

Results:

	No.	%
Passed	150	100
Failed	0	0

Grading of successful students:

	No.	%
Excellent	64	42.7
Very Good	38	25.3
Good	23	15.3
Pass	25	16.7

C - Professional Information

3 – Contents

Topic	Lecture hours	Tutorial hours	Practical hours

<ul style="list-style-type: none"> • The project requires the following steps to be carried out: <ul style="list-style-type: none"> ✓ The literature survey. ✓ Choice of the project construction based on some existing variants. ✓ Preparation of the constructional drawings of parts. ✓ Design of the most dangerous parts. ✓ Preparation of the process sheets to manufacture the parts. ✓ Assembly and testing of the project. ✓ Calibration of some parameters (if any). ✓ Preparation of the report ✓ Preparation of the presentation. 	15		90
Total hours	15		90

Topics taught as a percentage of the content specified:

>90 % 70-90 % 80 <70%

Reasons in detail for not teaching any topic Shortage of time. The actual term was 13 Weeks

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

2- Teaching and learning methods:

Lectures: Weekly Lecture

Practical: Weekly lab.

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	-
Oral examination	30
Practical/laboratory work	30 %
Other assignments/class work	40 %
Mid-Term Exam	0 %
Total	100 %

Members of examination committee All members of teaching staff

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

6- Student evaluation of the course:

List any criticisms	Response of course team
None	

7- Comments from external evaluator(s): 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 2017 – 2018

Actions required	Completion date	Person responsible
Non		

Course coordinator: Dr. Metwally H. Metwally
 Signature:
 Date: 28/8/2017

2017/2018

Senior 2, Ninth Semester

Code	Course
MNF521	Computer Aided Manufacturing (CAM)
MNF511	Quality Control and Quality Management
MNF561	Project-2a
MNF522	Hydraulic Power Systems
MNF523	Production Aids Design
	Elective-3:
MNF 551	a) Environmental Studies
MNF 552	b) Industrial Project Management
GEN 453	c) Industrial Psychology
	Elective-4:
MNF 531	a) Modeling and Simulation.
MNF 538	b) Advanced Casting Techniques.
MNF 532	c) Failure Analysis and Fracture

Senior 2, Tenth Semester

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Code	Course
	Industrial Thermal Systems
	Elective-5:
MNF 553	a) Industrial social impact.
GEN 454	b) Basics of Engineering Syndicate Works
GEN 352	c) Engineering Laws and Regulations
MNF 562	Industrial Training (2)
MNF 563	Project-2b
	Elective-6:
MNF 536	a) Industrial Robotics
MNF 533	b) Rapid Prototyping
MNF 534	c) Automation in Production and CIM
	Elective-7:
MNF 530	a) Advanced Forming Techniques.
MNF 535	b) Advanced Facility Planning
MNF 537	c) Electro- Hyd.& pneumatic Systems

Semester's Course Report

Academic year: 2017 - 2018

Semester: Fall

A- Basic Information

- 1- **Course Code & Title:** (MNF521) Computer Aided Manufacturing
- 2- **Program(s) on which this course is given:** Manufacturing Eng. and Prod. Tech. BSc Program
- 3- **Year/Level of program:** : 4th Level
- 4- **Credit hours:** 3 Lectures: 2 hrs Tutorial : --- Practical: 2 hrs
- 5- **Names of lecturers contributing to the delivery of the course:** Dr. Atef Afifi
- 6- **Course coordinator:** Dr. Atef Afifi
- 7- **External evaluator:** Non

B- Statistical Information

- 13- **No. of students attending the course:**
- 14- **No. of students completing the course:**
- 15- **Results:**

No.	133	100	%
No.	133	100	%

	No.	%
Passed	125	93.9
Failed	8	6.01

Grading of successful students:		
Grade	No.	%
A	16	12.03
B	26	19.54
C	34	25.56
D	49	36.843

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		2

Canned cycles of CNC milling	3		4
Canned cycles of CNC turning	3		4
Subprogram techniques for CNC part programming	3		4
Introduction to computer Aided Part Programming	3		2
Computer Aided Part Programming of Milled parts	3		4
Computer Aided Part Programming of Turned parts	4		4
Computer Aided Process Planning	4		6
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 None

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

None, all of the missed teaching hours were substituted.

2- Teaching and learning methods:

- **Course notes:** Lecture notes and Handouts
- **Required books:**
 - Nanfara, F, Uccello, T and Murphy , D., The CNC workshop (A multimedia introduction to computer numerical control), Addison-Wesley Longman Inc. , 1999
 - Radhakrishnan, p and subramanyan, S, CAD/CAM/CIM, New age international Ltd. Publishers, 1994
 - RAO,P.N,CAD/CAM principles and applications, Tata McGraw-Hill publishing Company limited, 2004
- **Recommended books:** Lynch, M, 1993, Computer Numerical Control (Advanced techniques), McGraw-Hill Inc.

Practical training/ laboratory: CAMWORKS

Seminar/Workshop:

Class activity: Weekly

Case Study:

Other assignments/homework:

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

3- Student assessment:

Assessment Method		Timing	Grade (Degrees)
Mid-Term Exam		7-th Week	10
Semester Work	Quizzes	4 Quizzes(every 3 weeks)2 degree for each one	4
	Reports	One report per semester	2
	Assignment	Bi-Weekly	4
Practical Exam		Fifteenth week	20
Written Exam		Sixteenth week	60
Total			100

Members of examination committee Dr. Atef Afifi

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 None

6- Student evaluation of the course: 77 %

Response of course team Non
List any criticisms Non

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 2018 – 2019

Actions required	Completion date	Person responsible
Non		
Course coordinator: Dr. Atef Afifi		
Signature:		
Date: 20/9/2018		

Annual Course Report Academic year 2017-2018

A- Basic Information

- 1- Course Code & Title: (MNF 522) Hydraulic Power Systems
- 2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc Program
- 3- Year/Level of program: Fourth Year/Second Semester
- 4- Teaching hours: 3 Lectures: 2 hrs Tutorial : 2 hrs Practical: 1 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

No. of students attending the course:
No. of students completing the course:
Results: of Written Exam

No.	133	100	
No.	133	100%	

	No.	%
Passed	105	78.95
Failed	28	21.05

Grading of successful students:		
Grade	No.	%
A	9	8.6
B	15	14.3
C	34	32.3
D	47	44.8

C- Professional Information

1 – Course teaching

Topic	T. Hours		Lecturer
	Plan.	Actual	

➤ Power systems, classification, operation, and comparison.	1	1	Prof. Dr. M Galal Rabie
➤ Introduction to hydraulic power systems and standard symbols	4	4	
➤ Hydraulic fluids; properties and their effect on the system performance.	7	7	
➤ Hydraulic transmission lines and connectors	4	4	
➤ Hydraulic pumps:	5	5	
• Classification and basic mathematical relations	2	2	
• Gear pumps, vane pumps and piston pumps	4	4	
• Fixed and variable displacement pumps and pump control	5	5	
➤ Control valves	1	1	
• Classification and basic design	1	1	
• Pressure control valves (direct/pilot operated); relief valves, pressure reducers, sequence valves and accumulator charging valves	8	8	
• Directional control valves	5	5	
• Flow control valves	4	4	
• Check valves	1	1	
➤ Hydraulic actuators; cylinders, motors and rotary actuators	5	5	
➤ Accessories; accumulators, filters, reservoirs, pressure switches,...etc	5	5	
➤ Mini project; design and analysis of the hydraulic system for an industrial application. Analysis of the possible operational problems...	8	8	
Total hours	28	28	

- 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	10	10
Term papers, quizzes and seminars	a1 to a5, b1 to b3, c1, c2 and c4 and d1 to d4	tri-weekly	10	10
Practical exams	a3, c1 and c5	Fifteenth week	20	20
Written exam	a1 to a6, b1 to b3 and c1 to c4 and d2	16 th week	60	60
Total			100	100

Members of examination committee: Dr. M. Galal RABIE and Dr. Abdelmagid Abdelatif

Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

5- Administrative constraints (List any difficulties encountered): None

6. Comment on the Examination results and feedback

- The exam header agrees with the MAM standard form
- The written exam covers 8 of 14 of the course ILO's measurable by written examination in a balanced form.
- The considerable low success in question 4 may be attributed to the very low student's level in English language and engineering graphics.
- The exam considers the course aims listed in the course specification.
- The exam level is convenient, considering the percentage of success.
- Special attention should be paid to:
 - English language
 - Engineering graphics
 - Report writing

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 reason for any non-completion:

Actions required	Planned Completion date	Accomplishment
Non		

10- Action plan for academic year 2018 – 2019

Actions required	Completion date	Person responsible
Non		

Course coordinator: Prof. Dr M Galal Rabie

Signature:

Date: August 20, 2018

Annual Course Report
Academic year: 2017 - 2018
Semester: spring

A- Basic Information1- **Course Code & Title:** (MNF 524) Industrial Thermal Systems2- **Program(s) on which this course is given:** Manufacturing Engineering and Prod. Tech. BSc Program3- **Year/Level of program:** 5th/44- **Credit hours**

Credit 3 hrs Lectures 2 hrs Tutorial 1 hrs Practical 2

5- **Names of lecturers contributing to the delivery of the course:** Assoc. Prof. Gaafar Hussein6- **Course coordinator:** Assoc. Prof. Gaafar Hussein7- **External evaluator:** Non**B- Statistical Information****No. of students attending the course:****No.****116****100****%****No. of students completing the course:****No.****116****100****%****Results:**

	No.	%
Passed	116	100
Failed	0	0

Grading of successful students:

Grade	No.	%
A	27	23.28
B	34	29.31
C	40	34.48
D	15	12.93

C- Professional Information**1 – Course teaching**

Topic	Lecture hours	Tutorial hours	Practical hours
Classifications of metal melting furnaces and operating principles of each	4		4
The meaning of furnace efficiency and the parameters considered to achieve efficient operation of furnaces, performance evaluation of different furnaces	4	4	
Heat recovery techniques and estimation of fuel saving in furnaces.	2	2	2
Operating principle of heat treatment salt bath furnaces, their description, performance evaluation, and development	2	2	4
Types of forging heating furnaces, their technical features and performance	2		4
Principle of operation of induction furnace, features, construction, types, advantages and disadvantages	2		4
Meaning of slag and mechanism of its formation, slag classification and its foaming characteristics, slag metal refining	2		
Heating boilers: operating principles, types, working pressures and temperatures, main components, safety issues, best practices for efficient operation, boiler control, boiler performance evaluation.	6	3	6
Temperature measurement and control in industries: temperature measurement inside furnaces, flue gas channels, in large tanks, in metal melting and salt baths, in plastic extruders, in heat exchanger pipes, in housings and walls, in bearing shells. Temperature control techniques.	2		2
Refrigeration and air conditioning: processes, basic components, control, applications.	4	4	4
Total hours	30	15	30

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 a3	b1 to b3	c1 to c3	d1 to d3

2- Teaching and learning methods:

Lecture, presentations, discussions, tutorials, problem solving, self-learning
 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: Assoc. Prof. Gaafar A. Hussein
 Role of external evaluator: Non

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

5- Administrative constraints (List any difficulties encountered): None

6- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	NA	

7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	

8- Written Exam Evaluation

- The exam level is convenient, considering the percentage of high grades.
- The whole exam result shows considerable weakness in engineering units.

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
None		

10- Action plan for academic year 2018 – 2019

Actions required	Completion date	Person responsible
None		

Course coordinator: Assoc. Prof. Gaafar A. Hussein

Signature:

Date: September 15, 2018

Annual Course Report

Academic year 2017-2018

A- Basic Information

1- Course Code & Title: (GEN 352) قوانين وتشريعات هندسيه

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

Production Engineering and Manufacturing Technology BSc Program,
Computer Engineering and Information Technology BSc Program and
Electronic Engineering and Communication Technology BSc Program

3- Year/Level of program: Fifth Year/Second Semester for Manufacturing Engineering and Production Technology BSc Program and Fourth Year / First Semester for Computer Engineering and Information Technology and Electronic Engineering and Communication Technology BSc Program

4- Credit hours

Credit 2 hrs Lectures 2 hrs Tutorial 0 hrs Practical 0 hr

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

Dr..Abeer H. Serag El-Deen
Dr. Doaa Khedr

6- Course coordinator: Dr. Abeer H. Serag El-Deen

7- External evaluator: None

B- Statistical Information

19- No. of students attending the course:

No. 200 100 %

20- No. of students completing the course:

No. 186 93 %

21- Results:

	No.	%
Passed	186	93
Failed	14	7

Grading of successful students:		
Grade	No.	%
Excellent	30	15
Very Good	70	35
Good	40	20
Pass	46	23

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecturer
	Plan.	Actual	
• بعض المفاهيم والتعريفات لمصطلحات القوانين والتشريعات الهندسيه	١	١	Dr..Abeer H. serag El-Deen
• المنشأة الصناعيه والتجاريه والسجل الصناعى والتجارى	٢	٢	
• تسجيل المنشآت الصناعيه وغير الصناعيه بالسجلات	٢	٢	
• العلامات التجاريه اهميتها ومحالفاتها	٢	٢	
• التوحيد القياسى واهميته والشخصيه الاعتباريه والبيانات التجاريه	١	١	
• التخطيط الهندسى للمدن والقرى	١	١	
➤ تخطيط عام وتخطيط تفصيلى	٢	٢	
➤ تقسيم الاراضى لاغراض البناء	١	١	
○ التلوث	٢	٢	
○ المناقصات المزادات لجان البت الفنى	٢	٢	
○ لجان ماليه	٢	٢	
○ العقود	٢	٢	
• الاخلاقيات			
➤ اخلاقيات مهنة الهندسه واخلاقيات العمل الوظيفى	٣	٢	
• ترسيخ اخلاقيات المهنة	٢	٢	
• علاقه بين العاملين والاداره والعلاقه بين العاملين انفسهم	٢	٢	
• اخلاقيات العمل التى نسمع عنها بالخارج	٣	٢	
Total hours	٣٠	٢٨	

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	no	no

2- Teaching and learning methods:

Lectures: Lecture, discussions
 Practical training/ laboratory: Practical Training and experimental measurements in Lab
 Seminar/Workshop: Bi Week Oral test and Seminars
 Class activity: Non
 Case Study: Selected case studies
 Other assignments/homework: Reports
 If teaching and learning methods were used other than those specified, give reasons: Non

3- Student assessment:

Method of assessment	Points	%
Written examination	100	70
Oral examination	10	10
Practical/laboratory work	None	None
Other assignments/class work	10	10
Mid-Term Exam	10	10
Total	100	100

Members of examination committee: Dr..Abeer H. serag El-Deen, Dr Doaa Khedr
 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:

(a)	List any criticisms	Response of course team

7- Comments from external evaluator(s):

(a)	Comment	Response of course team
	Non	

8- Written Exam Evaluation

➤ The attendance of the student is totally is weak.

9- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment
Add more subjects to this book	May 2019	

10- Action plan for academic year 2018 – 2019

Actions required	Completion date	Person responsible
1. adding more reports for chapter 9 and 10	May 2019	Dr..Abeer H. serag El-Deen

Course coordinator: Dr..Abeer H. serag El-Deen

Signature:

Date: September 2018

**Annual Course Report
Academic year: 2017-2018**

A- Basic Information

- 1- Title and code: (MNF 562) Industrial Training 2
- 2- Program(s) on which this course is given: Manuf. Eng. and Prod. Tech. BSc. Program
- 3- Year/Level of program: Fourth Level
- 4- Credit hours: 3 Lec.: 1 Tutorial: - Practical: 4 Pre-requisite: MNF462
- 5- Names of lecturers contributing to the delivery of the course
Training Sites
Course coordinator Dr. Abdelmagid A. Abdalla
External evaluator: None

B- Statistical Information

No. of students attending the course: No. 179 100 %
 No. of students completing the course: No. 126 70.4 %

Results:

	No.	%
Passed	126	100
Failed	0	0

Grading of successful students:

	No.	%
Excellent	125	99
Very Good	0	0
Good	0	0
Pass	1	1

C - Professional Information

Contents

Topic	Lecture hours	Tutorial hours	Practical hours
<ul style="list-style-type: none"> • Practical industrial training for two weeks- during the vacation at the end of the 8th semester- in a recognized industrial establishment. • At the end of the training, student should submit a report with the following information: <ul style="list-style-type: none"> ✓ Profile of the industry ✓ Organization structure. ✓ Product range ✓ Processes ✓ Machines, equipment, devices. ✓ Personnel welfare scheme ✓ Details of the training undergo Projects undertaken during the training.(if any)	10		40
Total hours	10		40

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: Daily Lecture

Practical: Daily

Other assignments/homework: By the end of the training
 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	0
Oral examination	40 %
Practical/laboratory work	60 %
Other assignments/class work	0
Mid-Term Exam	0
Total	100 %
Members of examination committee	Dept. Teaching Staff
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

6- Student evaluation of the course:

List any criticisms	Response of course team
None	None

7- Comments from external evaluator(s): 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 2018 – 2019

Actions required	Completion date	Person responsible
Non		

Course coordinator: Dr Abdelmagid A. Abdalla

Signature:

Date: 28/10/2018

Annual Course Report 2017/2018

A- Basic Information

- 1- Title and code: MNF551 Environmental Studies
 2- Program(s) on which this course is given: Manuf. Eng. and Production Technology Program.
 3- Year/Level of program: Level 4
 4- Unit hours: 2 Credits Lectures Tutorial Practical Total
 5- Names of lecturers contributing to the delivery of the course
 Prof. Dr. S. Guoda
 External evaluator: Non

B- Statistical Information

No. of students attending the course: No. 36 %
 No. of students completing the course: No. 36 %

Results:

Passed No. 36 % 100
 Failed No. 0 % 0

Grading of successful students:

	No	%
Excellent	9	25
Very Good	19	52.778
Good	6	16.67
Pass	2	5.556

D- Professional Information

1 – Course teaching

Topic Actually taught	No. of hours	Lecturer
• Population Growth and the Environment	3	
• Energy	5	
• Population Increase and Environment	4	
• Air Pollution	5	
• Water Pollution	3	
• Solid Wastes	4	
• Environmental Impact Assessment and the Egypt law No.4 of 1994 on the Environment.	4	
• Final Revision	2	
Total hours	30	

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

2- Teaching and learning methods:

Lectures:

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		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
Non

6- Student evaluation of the course:
List any criticisms

Response of course team

7- Comments from external evaluator(s):

Response of course team

8- Course enhancement:

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

9- Action plan for academic year 2018 – 2019

Actions required	Completion date	Person responsible
Course coordinator: Prof. S.Gouda		
Signature:		
Date: Oct, 2018		

Annual Course Report
For Academic year 2017/2018

A- Basic Information

- 1- Title and code: **Quality Control & Quality Management: MNF 511**
- 2- Program(s) on which this course is given: **Manufacturing Eng. And production Technology**
- 3- Year/Level of program: **4th Level**
- 4- Credit hours: **3** Lectures: 2 Tutorial: 1 Practical: 2 Total: 5
- 5- Names of lecturers contributing to the delivery of the course:
 Course coordinator: Dr. Mohamed Saad Abdelkarim
 External evaluator: Dr Mohamed Saad Abdelkarim
 None

B- Statistical Information

- No. of students attending the course: **119**
- No. of students completing the course: **119**
- Results:

	No.	%	Grading of successful students:	
Passed	112	94.1		
Failed	7	5.9		
			Excellent	17 15.2
			Very Good	24 21.4
			Good	33 29.5
			Pass	38 33.9

C- Professional Information

- 3- Course teaching
Lecturer: **Dr. Mohamed Saad Abdelkarim**

Topic	Lecture hours	Tutorial hours	Practical hours
• Introduction to quality	2	1	2
• Quality improvement techniques	2	1	2
• Total quality management (TQM)	2	1	2
• Quality cost	2	1	2
• Fundamentals of statistics and quality	2	1	2
• Control charts for variables	4	2	4
• Fundamentals of probability and quality	4	2	4
• ISO quality systems	4	2	4
• Acceptance sampling plans	2	1	2
• Acceptance sampling systems	2	1	2
• Reliability and quality	2	1	2
• Computers and quality control	2	1	2
Total hours	30	15	30

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

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: None

3- Student assessment:

Method of assessment	Percentage of total
▪ Written examination	60
▪ Oral examination	20
▪ Practical/laboratory work	10
▪ Other assignments/class work	10
▪ Mid-Term Exam	10
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	None
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6- Student evaluation of the course:

List any criticisms

None

Response of course team

None

7- Comments from external evaluator(s):

None

Response of course team

None

8- Course enhancement:

- As planned

9- Action plan for academic year 2018 – 2019

Actions required

None

Completion date

-

Person responsible

-

Course coordinator: Dr. Mohamed Saad Abdelkarim

Signature

Date: 1/11/2018

Semester's Course Report
Academic year: 2017 - 2018
Semester: Fall

A- Basic Information

- 1- **Course Code & Title:** (MNF552) Industrial Project Management
 2- **Program(s) on which this course is given:** Manufacturing Engineering and Prod. Tech. BSc Program
 3- **Year/Level of program :** 4th Level
 4- **Credit hours**
 Credit 2 hrs Lectures 2 hrs Tutorial 0 Practical 0
 5- **Names of lecturers contributing to the delivery of the course:** Dr. Ahmed Sarhan
 6- **Course coordinator:** Dr. Ahmed Sarhan
 7- **External evaluator:** Non

B- Statistical Information

No. of students attending the course:	No.	139	100	%
No. of students completing the course:	No.	139	100	%

Results:

	No.	%
Passed	131	94
Failed	8	6

Grading of successful students:		
Grade	No.	%
A	37	28.2
B	39	29.8
C	32	24.4
D	23	17.6

C- Professional Information**1 – Course teaching**

Topic	Lecture hours	Tutorial hours	Practical hours
1- Introduction	1	-	-
2- Feasibility study	-	-	-
–Market study	1	-	-
–Technical study	1	-	-
– Financial & Economic study	1	-	-
– Environmental study	1	-	-
3- Project Management	-	-	-
– Phases of a project & steps of managing a project	1	-	-
– The project management body of knowledge	1	-	-
– The role of the project manager	1	-	-
– Planning of a project	1	-	-
– Developing a mission, vision, goals and objectives for the project	1	-	-
22- Linear Programming	1	-	-
23- Assignment problems	4	-	-
Total hours	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, all of the missed teaching hours were substituted.

2- Teaching and learning methods:

- **Course notes:** Lecture notes and Handouts
- **Required books:** Non.

- **Recommended books:** A guide to the project management body of knowledge (PMBOK® guide). - Fifth edition.- 2013 - The Project Management Institute, Inc
- **Periodicals, Web sites, etc.:**
Available relevant Web sites

Practical training/ laboratory: Non

Seminar/Workshop: Bi-weekly workshops

Class activity: Weekly

Case Study: Reports of different feasibility 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:

Assessment Method	Timing	Grade (Degrees)
Semester Work: seminars, quizzes assignments and reports	Bi-Weekly	20
Mid-Term Exam	7-th Week	10
Practical Exam	-	-
Written Exam	Sixteenth week	70
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

6- Student evaluation of the course: 76 %

Response of course team Non

List any criticisms Non

7- Comments from external evaluator(s):

Response of course team Non

8- Course enhancement:

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

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

9- Action plan for academic year 2018 – 2019

Actions required	Completion date	Person responsible
Non		

Course coordinator: Dr. Ahmed Sarhan

Signature:

Date: 20/2/2018

Semester's Course Report

Academic year:2017-2018

Semester: Spring

A- Basic Information

- 1- Course Code & Title:(MNF534) Automation in production and CIM
- 2- Program(s) on which this course is given: Manufacturing Eng. and Prod. Tech. BSc Program
- 3- Year/Level of program: :4th Level
- 4- Credit hours

Credit	3hrs	Lectures	2hrs	Tutorial	1hrs	Practical	2hr
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- 5- Names of lecturers contributing to the delivery of the course: Prof. Ahmed Kohail
- 6- Course coordinator: Prof. Ahmed Kohail
- 7- External evaluator: Non

B- Statistical Information

- 16- No. of students attending the course:

No.	125	100	%
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- 17- No. of students completing the course:

No.	125	100	%
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- 18- Results:

	No.	%
Passed	115	92
Failed	10	8

Grading of successful students:		
Grade	No.	%
A	9	7.2
B	29	23.2
C	30	24
D	47	37.6

C- Professional Information

- 1- Course teaching
Lecturer: Prof. Dr.A.M.Kohail

Topic	Lecture hours	Tutorial hours	Practical hours
• Automation economics	2		
• Analysis of automated lines	2	2	-
• Line balancing	2	2	-
• Assembly lines	2	2	-
• CNC and robot applications	4	2	4
• Group technology	2	2	-
• FMS and prod. cells	4	-	-
• Linear feed-back control systems	2	2	2
• Sequential control applications	2	-	10
• Applications for automatic filling systems	2	-	4
• Total hours	30	15	30

Topics taught as a percentage of the content specified:

>90 % 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.

2- Teaching and learning methods:

- **Lectures:** Classical lecturing using the white board
- **Practical training/ laboratory:** Automation lab.
- **Seminar/Workshop:** None
- **Class activity:** Solution of problems
- **Case Study:** PLC applications
- **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:

Assessment Method	Timing	Grade (Degrees)
Semester Work: seminars, quizzes assignments and reports	Bi-Weekly	10
Mid-Term Exam	8-th Week	10
Practical Exam	Fifteenth week	20
Written Exam	Sixteenth week	60
Total		100

Members of examination committee Prof. Ahmed Kohail
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 84%
List any criticisms Non

7- Comments from external evaluator(s):

Response of course team Non

8- Course enhancement:

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

9- Action plan for academic year 2018 – 2019

Actions required	Completion date	Person responsible
Non		

Course coordinator: Prof. A. KOHAIL

Signature:

Date: 25/9/2018

Annual Course Report
Academic year 2017-2018

A- Basic Information

- 1- **Course Code & Title:** (MNF 537) Electrohydraulic and Pneumatic Systems
- 2- **Program(s) on which this course is given:** Manufacturing Engineering & Prod. Tech. BSc Program
- 3- **Year/Level of program:** Fourth Year/Second Semester
- 4- **Teaching hours**

Total	3hrs	Lectures	2 hrs	Tutorial	2 hrs	Practical	1 hr
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- 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

- 19- **No. of students attending the courses:**
- 20- **No. of students completing the courses:**
- 21- **Results: of Written Exams**

No.	7	100%	%
No.	7	100%	%

	No.	%
Passed	7	100
Failed	0	0

Grading of successful students:		
Grade	No.	%
A	1	14.3
B	1	14.3
C	1	14.3
D	4	57.1

C- Professional Information

1 – Course teaching

Topic	Plan.	Actual	Lecturer
➤ Pneumatic systems:			Prof. Dr. M Galal Rabie
• Fundamentals and theoretical background	8	8	
• Components of pneumatic power systems; compressors, valves; pressure control valves, directional control valves, flow control valves and actuators.	6	6	
• Case studies: Basic industrial pneumatic systems.	10	10	
➤ Fluid power systems fundamentals and basic equations	4	4	
➤ Modeling and dynamic performance of hydraulic transmission lines	8	8	
➤ Hydraulic servo-actuators:	4	4	
• Construction	1	1	
• Operation	2	2	
• Applications	1	1	
• Modeling, simulation and investigation of transient behavior	5	5	
• Flow and Power characteristics- Case studies	2	2	
➤ Electro-hydraulic proportional-valves technology and applications	1	1	
➤ Electro-hydraulic servo-valve technology:			
• Construction, operation and classification:	1	1	
• Hydraulic amplifiers; flapper valve, Jet nozzle and jet deflector	1	1	
• Feedback: Mechanical, electric barometric	2	2	
• Transient and frequency response	2	2	
➤ Electro-hydraulic servo actuator:			
• Basics of electro-magnetics	1	1	
• Electromagnetic torque motor characteristics	3	3	
• Flapper valve characteristics	2	2	
• Modeling and simulation of electro-hydraulic servo actuator (EHSA)	4	4	

➤ Transient performance of EHSA and its subassemblies			
• Torque motor	3	3	
• First stage	3	3	
• Servo- valve	4	4	
• Integrated EHSA	4	4	
• PID controller for EHSA	4	4	
➤ Mini project; investigate the transient performance of a small industrial hydraulic system.	4	4	
Total hours	75	75	

- 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.

Knowledge & Understanding a1 to a7	Intellectual skills b1 to b5	Applied Skills c1 to c7	General transferable skills d1 to d5
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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: Non

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	10	10
Term papers, quizzes and seminars	a1 to a5, b1 to b3, c1, c2 and c4 and d1 to d4	tri-weekly	10	10
Practical exams	a3, c1 and c5	15 th week	20	20
Written exam	a1 to a6, b1 to b3 and c1 to c4 and d2	16 th week	60	60
		Total	100	100

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

4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

5- Administrative constraints (List any difficulties encountered): None

6. Comment on the Examinations results and feedback

- The exam header agrees with the MAM standard form
- The written exam covers 10 out of 17 of the course ILO's in a balanced form (59%).
- Too few number of students for any reasonable statistical analysis
- The exam considers the course aims listed in the course specification.

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 reason for any non-completion:

Actions required	Planned Completion date	Accomplishment
Non		

10- Action plan for academic year 2018 – 2019

Actions required	Completion date	Person responsible
Non		

Course coordinator: Prof. Dr. M Galal Rabie

Signature:

Date: August 22, 2018

Annual Course Report Academic year: 2017-2018

A- Basic Information

- 1- Title and code: **(MNF 563) Project 2b**
- 2- Program(s) on which this course is given: **Manufacturing Eng. and Prod. Tech. BSc. Program**
- 3- Year/Level of program: **Third Level**
- 4- Credit hours: **4 Lec.: 2 Tutorial: - Practical: 6 Pre-requisite: non**
- 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. 32 100%
 No. of students completing the course: No. 32 100%
 Results:

	No.	%
Passed	32	100
Failed	0	0

Grading of successful students:

	No.	%
Excellent	18	56.25
Very Good	11	34.375
Good	2	6.25
Pass	1	3.125

C - Professional Information

3 – Contents

Topic	Lecture hours	Tutorial hours	Practical hours
<ul style="list-style-type: none"> • The project requires the following steps to be carried out: <ul style="list-style-type: none"> ✓ The literature survey. ✓ Choice of the project construction based on some existing variants. ✓ Preparation of the constructional drawings of parts. ✓ Design of the most dangerous parts. ✓ Preparation of the process sheets to manufacture the parts. ✓ Assembly and testing of the project. ✓ Calibration of some parameters (if any). ✓ Preparation of the report ✓ Preparation of the presentation. 	30		90
Total hours	30		90

Topics taught as a percentage of the content specified:

>90 % 70-90 % 80 <70%

Reasons in detail for not teaching any topic: Shortage of time. The actual term was 13 Weeks
 If any topics were taught which are not specified, give reasons in detail: None

2- Teaching and learning methods:

Lectures: Weekly Lecture

Practical: Weekly lab.

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. Abdelmagid A. Abdalla
 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

6- Student evaluation of the course:

List any criticisms	Response of course team
➤	➤

7- Comments from external evaluator(s): 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 2017– 2018

Actions required	Completion date	Person responsible
Non		

Course coordinator: Dr. Abdelmagid A. Abdalla

Signature:

Date: 28/8/2018

