



<b>Course Specif</b>	ications	ł										
Program(s) on which this course is given:				B. Sc. In A	erospace							
Department offering the program:			Aerospace									
Department offering the course:			Mechanical Design & Production									
Academic Level:			1st YearAerospace (2 <sup>nd</sup> Year in a five-year program)									
Date				November, 2014.								
Semester (based o	on final ex	am timing)		□ Fall □ Spring								
A- Basic Infor	mation											
1. Title:	Machin	Machines Drawing			Code:MDP121							
2. Units/Credit hours per week:	Lectures 1( 2 hrs)		Tutorial	3(6 hrs)	Practical		Total	4( 8hrs)				
<b>B- Profession</b> a	al Inform	mation										
1. Coursedescription:		This course is designed to give the student the ability to understand the mechanical elements, how to draw and how to use the mechanical elements in mechanical										
		design and assembly drawing.										
		a) Knowle	dge a	nd Understa	anding							
2. Intended Learning Outcomes of Course (ILOs):		a1- Understand mechanical elements such as screws, nuts, springs, etc.										
		a2- Applying fits and tolerance										
		a3- Draw assembly drawing										
		b) Intellectual Skills										
		b1- Creative thinking for how simple machine works										
		b2- Analysis the relationships between mechanical parts										
		c) Professional and Practical Skills										
		c1- The student will be able to understand and interpret mechanical drawings										
		c2- The student will be able to produce, to a minimum established standard, mechanica drawings										
		d) General and Transferable Skills										
		d1- Assembly drawing preparation										
		d2- Management of mechanical drawing project										
3. Contents		1										
Topic T			To	otal hours	Lectures ho	ours	Tutoria	ul/ Practi	cal hours			
Screw threads				4		2						
Nuts, bolts, screws		oro		4	1	2						

Keys and Keyways Gears Limits and Fits Geometrical Tolerance	2 4 4	1					
Gears Limits and Fits		2					
Limits and Fits		2					
	4						
Geometrical Tolerance	, , , , , , , , , , , , , , , , , , ,	2					
	4	2					
Springs	2	1					
Welding and Welding Symbols	4	2					
Total	30	15					
4. Teaching and Learning Methods	Lectures () Class Activity () E-learning ()	Practical Training/ Laboratory () Case Study () Assignments /Homework ( )		Seminar/Workshop () Projects () Other:			
5. Student Assessment Methods	8()		~ /				
Assessment Schedule		Week					
-Assessment 1;Class test							
-Assessment 2; Project Assignment	Distributed over all weeks						
-Assessment 3; Presentations	-						
-Assessment 3; Midterm Exam	Week 10						
-Assessment 4; Final Exam	End of term						
Weighting of Assessments		I					
-Mid-Term Examination							
-Final-term Examination		60	%				
-Project		-	10	0/			
-Class Test -Presentation	40 %						
-Total		100	%				
6. List of References							
6.1- Course Notes							
6.2- Essential Books (Text Books)							
5.2 Essential Books (Text Books)							
6.3- Recommended Books							
6.4- Periodicals, Web Sites, etc							
7. Facilities Required for Teaching and I	Learning						
Data Show, Video films, Smart board conn							

Course Coordinator: Prof. Dr. Fatheya Soliman	
Head of Department: Prof. Dr Aly EL Shafaey	