



				Course Sp	ecificatio	ns					
Program(s) on which this course is given:				Aerospace Engineering							
Department offeri	ng the pr	ogram	:	Aerospace	-	-					
Department offering the course:				Aerospace							
Academic Level:				2nd year							
Date				October, 2015							
Semester (based on final exam timing)			ning)	🗆 Fall 🔳 Spring							
A- Basic Inform	mation										
1. Title:	Mechan	chanics of Struct		es Code:			AER 203 A				
2. Units/Credit			3	Tutorial	2	Practic		0	Total	5	
hours per week:	Lectures		3	Tutomar	2	Flactic	al	U	Total	5	
<b>B- Professiona</b>	l Infori	matio	n								
1. Course descript	ion:	To c loads	1	he stresses a	nd displac	ements d	lue to 1	bending	shear and t	orsiona	
2. Intended L Outcomes of (ILOs):	1. T 2. T 3. T 4. T 5. T <b>b) In</b> 6. T 7. T <b>c) Pn</b> 8. T N	The studer The studer The studer The studer The studer The studer The studer The studer The studer	dent should calculate critical buckling loads dent should analyze curved beams onal and Practical Skills dent should be able to calculate structural deformations using								
3. Contents											
Торіс			Τ	otal hours	Lectures			Tutor	rial/ Practical	hours	
General Bending of Beams				14		8			6		
Analysis of Torsion				12		8		4			
Analysis of shear				18		10		8			
Structural Instability				10		6		4			
Curved Beams				6		4		2			
Revision				6	2			4			
				66		38			28		
4. Teaching and Learning Methods			ls L	ectures ()	Practical Laborator			Seminar/Workshop ()			

	Class Activity	Case Study ( )	Projects ()			
	E-learning ()	Assignments /Homework ()	Other:			
5. Student Assessment N	Iethods					
• .Assessment Sch	edule	Week				
-Assessment 1; Class test		4, 7, 11, 14				
-Assessment 2; Project A	ssignment					
-Assessment 3; Presentat	ons					
-Assessment 3; Midterm	Exam	8				
-Assessment 4; Final Exa	m	17				
Weighting of As	sessments					
-Mid-Term Examination		20 %				
-Final-term Examination		68 %				
-Project		0 %				
-Class Test		12 %				
-Presentation		0 %				
-Total		100 %				
6. List of References						
6.1- Course Notes: Aircra	ft Structures for Engineering stude	ents, T.H.G. Megson, Edward Ar	nold Publishing London.			
6.2- Essential Books (Tex	Books): Aircraft Structures, H.Pee	ery				
-	or Teaching and Learning					
	n library Enhancing the ability to t	hink for students in secondary	schools			
<b>Course Coordinator:</b>	Dr. Edward Sadek					
Head of Department:	Dr. Aymin Hamdy					