



			(Course Sp	ecification	S				
Program(s) on which this course is given:				Aerospace Engineering						
Department offering the program:				Aerospace Engineering Department						
Department offering the course:				Aerospace Engineering Department						
Academic Level:				First Year Undergraduate						
Date				November, 2014						
Semester (based on final exam timing)				Fall 🗌 Spring						
A- Basic Infor	mation									
1. Title:	Introduction to Aeronaut		onauti	cs Code: AER101A						
2. Units/Credit	Lectures	Lectures 2		Tutorial	1	Practical		Total	3	
nours per week:										
B- Professiona	al Inform	nation								
		Introducing the student to various disciplines of aeronautics together with terminology and problems outlines								
	a) Knowledge and Understanding									
		The student should know history of flight								
2. Intended Learning Outcomes of Course (ILOs):		The student should know atmosphere and basic aerodynamics								
		b) Intellectual Skills								
		The student should know how to use units and elementary problems								
		c) Professional and Practical Skills								
		The student should be able to identify discipline								
		The student should be able to write report								
		The student should know computer programming								
		d) General and Transferable Skills								
3. Contents		I								
Topic			Т	otal hours	Lectures ho	ours	Tutori	al/ Practica	l hours	
History of flights				8		4		2		
Fundamental thoughts				6		3		2		
The standard atmosphere				4		2		4		
Basic aerodynamics				10		9		6		
Revision			2		1		2			
4. Teaching and Learning Methods			ectures ()	Practical Training/ Laboratory ()		Semina	Seminar/Workshop()			
			lass Activity)	Case Study ()		Project	Projects ()			
			-learning ()	Assignment	s /Homework	Other:				

5. Student Assessment Methods						
Assessment Sche	edule	Week				
-Assessment 1; Class test		5,10,15				
-Assessment 2; Project As	ssignment					
-Assessment 3; Presentati	ons					
-Assessment 3; Midterm I	Exam	8				
-Assessment 4; Final Exa	m	End of the term				
Weighting of Assessments						
-Mid-Term Examination		15 %				
-Final-term Examination		75 %				
-Project						
-Class Test		10 %				
-Presentation						
-Total		100 %				
6. List of References						
Course Notes						
Blackboard notes + various course handouts						
Essential Textbooks						
Anderson, J.D., "Introduction to Flight", 4th Edition, McGraw Hill, 2000						
Recommended Books						
Shevell, R.S., "Fundamentals of Flight", 2nd Edition, Prentice Hall, 1989						
7. Facilities Required for Teaching and Learning						
Library references						
Xerox machine for student handouts						
Course Coordinator: Prof. Dr. Galal B. Salem						
Head of Department: Dr. Ayman Hamdy Kasem						