



				Course Sp	ecificatio	ons				
Program (s) on which this course is given:			Aerospace Engineering							
Department offering the program:				Aerospace Engineering						
Department offering the course:				Mechanical Design & Production						
Academic Level:				2 nd year						
Date				2014/2015						
Semester (based on final exam timing)			🗹 Fall 🗌 Spring							
A- Basic Infor	mation									
1. Title:	Production		chnology (3)	Code:	MDP	210			
2. Units/Credit hours per week:	Lectures 3hrs		3hrs	Tutorial	1hr	Practical		Total	4hrs	
B- Professiona	l Infor	matio	on							
				ims to introd 1 aerospace ei		ic principles of p	production to	echnology	and its	
			a) Knowledge and Understanding							
2. Intended Learning Outcomes of Course (ILOs):		The student should know the cutting theories and different materials								
		The student should know about the different industrial tools and its materials								
		b) Intellectual Skills								
		The student will be able to solve the problem of the interaction between the cutting to								
		the work-piece.								
		The student will be able to solve the problem related to the cutting energy calculating								
		c) Professional and Practical Skills								
		The student will gain the ability to estimate the cost of the production process								
		d) General and Transferable Skills								
3. Contents		1								
Торіс]	Fotal hours	Lectures	hours	Tutorial/	Practical	hours	
Metal Forming				6		4		2		
Flow curve				5		3		2		
Slap method applied to forging				5		3		2		
Rolling				6		4		2		
Extrusion and wire drawing				6		4		2		
Sheet metal processes				7		5		2		
Sheet metal processes				7		5		2		

Fine edge blanking and piercing	6	4	2					
Deep drawing – contour roll forming	5	3	2					
Machine tool for metal forming	5	3	2					
	Lectures ☑	Practical Training/ Laboratory ☑	Seminar/Workshop ()					
4. Teaching and Learning Metho	ds Class Activity ☑	Case Study ()	Projects ()					
	E-learning ()	Assignments /Homework 🗹	Other:					
5. Student Assessment Methods								
Assessment Schedule		Week						
-Assessment 1; Class test								
-Assessment 2; Project Assignment								
-Assessment 3; Presentations								
-Assessment 3; Midterm Exam								
-Assessment 4; Final Exam								
Weighting of Assessments								
-Mid-Term Examination		20						
-Final-term Examination		60						
-Project		10						
-Class Test -Presentation		10						
-Total		10						
6. List of References								
Lecture note								
Essential Books (Text Books)								
Principles of metal cutting (M. Shaw)								
Fundamentals of metal machining and machine tools (Boothroyd)								
Periodicals, Web Sites, etc								
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7. Facilities Required for Teaching and Learning								
Course Coordinator: Hassan Megahed								