Manufacturing Processes I

		Basic Course	Specification						
Course Title		Course Code		Program on which the course is given					
Manufac	cturing Processes I	IM 212T		Bachelor					
	ademic Year	Specializat	tion (hr/week)		Pre-	Requi	sites		
	020 - 2021	TheoreticalApplicationCredit(3Cr	(2) (4) .)			M 112			
The student	abould be able to unde		se Objectives	amial mar	morral		and and	to	
	should be able to unde ese processes, i.e. minin							10	
	Learning Outcomes. E							e to:	
Торіс					7th Week Assessment	12 th Week Assessment	Class Activities	Final Exam	
1. Assess and evaluate the characteristics and performance of components, systems and processes, land apply critical thinking.						x		X	
2. Select and appraise appropriate ICT tools to a variety of engineering problems and create innovative solutions					X	X			
3. Analyze and solve the problems presented by industrial entities.						X	X	X	
		Course	Content						
Lec./ Week #		Торіс		Hrs. #	Th	heor. App		р.	
1	Introduction to manu		S	6		2		4	
2	Mechanics of chip form			6		2	_	4	
3	Cutting tools for machin	6	2		4				
4	Tool were and tool life	6 6	2		4				
5	Economics of machining					2		4	
6						2 2		4 4	
8	7 7 th Week Exam 8 Drilling and reaming								
	<u> </u>		6	2		4			
<u>9</u> 10	Milling operation	6 6	2		4				
10					2 2		4		
11	Grinding and finishing operations 12th Week Exam			6			4		
				6	2				
13	Numerical control of machine tools			6 6		$\begin{array}{c c} 2 & 4 \\ \hline 2 & 4 \end{array}$			
14	Non-traditional machining – innovative tools Revision								
15				6		۷	1 4	4	
16 Total Harry	Final Assessment			00	, ,	20		<u> </u>	
Total Hours	8			90		<u>30</u>		<u>50</u>	
Tea	nching & Learning Me	ethods	Facilities Requ		r Teac thods	hing &	z Leari	ning	
• Lectures			• White board and data show						
	g workshops	Machining we	orkshop)					
Assignm	ents & sheets								

S	Students Asses	sment Methods			
	Assessmen	t Schedule			
Assessment#1		Week 7			
Assessment#2		Week 12			
Assessment#3		Class and Workshop Activities			
Assessment#4		Week 16			
	Grading	Method			
7th Week Assessment	Wr	Written Exam			
12 th week Assessment	Written Exam		<u> </u>		
Class Activities	Assignments		10%		
Final Exam	Written Exam		40%		
		Total	100 %		
	Staff Requ	uirements			
N	-	ngineer/ Ph.D.			
Course Notes		Essential Books			
Course notes					
Lecturer notes and sheets (Update	Lecturer notes and sheets (Updated 2020)		Fundamentals of machining processes: conventional & nonconventional processes		
		9781466577022.			
Recommended Books	s	Periodicals and Publications			
SME, Tools and Manufacturing Eng Hand book, McGraw Hill,2013	None				
	IMO Re	ferences			
	No	one			
	Accred	litation Bodies			
*Egyptian Authority for Maritime S	afety (EAMS)				
European Commission (EC)	2 、 /				
*ISO (9001 – 2015) DNV-GL					
	ion Agency Har	nover, Germany (ZEVA	.)		
*Central Evaluation and Accreditati					
*Ministry of Education (KSA)					
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Date: November 2020