MOHAMMED SATHAK A J COLLEGE OF ENGINEERING

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Depart ESS PLANNING AND COST ME8793 2022-2023 concepts to make cost estimation and tools for various industrial etivity chart stimation r different type of shop floor for various machining operation Topic(s)	Course Object on for various product Course Outco	tive ts after produce ome Periods	ame of the ng Faculty Year / Sem Batch Cess planning Mode of Teaching	Dr. A. Sarava IV/VII 2019-23	anan	
ME8793 2022-2023 concepts to make cost estimation and tools for various industrial etivity chart estimation r different type of shop floor for various machining operation	Course Object on for various product Course Outco al products Lesson Plan T / R*	handli tive ts after proc	ng Faculty Year / Sem Batch cess planning Mode of Teaching	IV/VII 2019-23	anan	
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opic(s)	Book			Blooms Level		
		Required	(BB / PPT / NPTEL / MOOC / etc)	(L1-L6)	СО	РО
TO PROCESS PLANN	ING			•		
eess Planning	T1	1	PPT	L1	CO1	1
nning	T1	1	PPT	L1	CO1	1
	T1	2	PPT	L2	CO1	1
	T1	2	PPT	L3	CO1	1
n	T1	1	PPT	L2	CO1	1
nd tooling selection	T1	2	PPT	L3	1	
given to the student of Case Studies	•	•		•		
Activities						
on for various production	T1	1	PPT	L2	CO2	1
xtures	T1	2	PPT	L2	CO2	1
tion of quality assurance methods		2	PPT	L2	CO2	1
ocess planning	T1	2	PPT	L2	CO2	1
occo pianing	T1	1	PPT	L2	CO2	1
lanning	1	+		1.3	1,2,3	
	T1	1	PPT	23		i
ır	ance methods cess planning	rance methods T1 cess planning T1	rance methods T1 2 cess planning T1 2	rance methods T1 2 PPT cess planning T1 2 PPT cenning T1 1 PPT	rance methods T1 2 PPT L2 cess planning T1 2 PPT L2 cess planning T1 1 PPT L2	rance methods T1 2 PPT L2 CO2 cess planning T1 2 PPT L2 CO2 unning T1 1 PPT L2 CO2

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13	Importance of costing and Estimation T1 1 PPT L1 CO3 1											
13	Methods of costing	PPT	L1	CO3	1							
13	Elements and types of Cost Estimation	T1	1	PPT	L1	CO3	1					
13	Estimation of labor and material cost	T1	2	BB / PPT	L3	CO3	1,2					
13	Allocation of overhead charges	T1	2	BB / PPT	L3	CO3	1,2					
13	Calculation of depreciation Cost T1 2 BB / PPT L3 CO3											
Suggested Activity: Case studies given to the student Evaluation method: Evaluation of Case Studies												
	N Production Cost Estimation											
	Estimation of different types of jobs	T2	2	BB / PPT	L3	CO4	1,2,3					
	Estimation of Forging shop	T2	2	BB / PPT	L3	CO4	1,2,3					
	Estimation of welding shop	T2	3	BB / PPT	L3	CO4	1,2,3					
			+									
	Estimation of foundry shop T2 2 BB / PPT L3 CO4 1,2,3 ted Activity: Assignment given to the students											
Evaluation method: Evaluation of the assignment												
UNIT V	Machining Time calculation											
18	Estimation of Machining Time	R2	1	BB / PPT	L3	CO5	1,2,3					
19	Importance of Machine time calculation	R2	1	BB / PPT	L3	CO5	1,2,3					
	Calculation of Machining time for different lathe operations, drilling, boring	R2	3	BB / PPT	L3	CO5	1,2,3					
21	Machining time calculation for milling,shaping,planning	R2	3	BB / PPT	L3	CO5	1,2,3					
	Machining Time calculation for grinding R2 1 BB / PPT L3 Co											
Suggested Activity: Case studies given to the student Evaluation method: Evaluation of Case Studies												
Content B	Beyond the Syllabus Planned											
	Motion economy											
2	Work measurements & Ergonomics	m / P *										
1	Peter scalon, "Process planning, Design/Manufacture	Text Books Interface". Elsevier se		ology Books, Dec 2002	<u> </u>							
2	Sinha B.P, "Mechanical Estimating and Costing", Tata											
		_										
, 1	Ostevolal D.E. and Marrier I. (94 - C. c.). D.	Reference Boo		Wiley 1000								
	Ostwalal P.F. and Munez J., "Manufacturing Processes and systems", 9 th Edition, John Wiley 1998 K.C. Jain & L.N. Aggarwal, "Production Planning Control and Industrial Management", Khanna Publishers 1990.											
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Website / URL References												

1	https://npt	tel.ac.in/cou	urses/112/1	07/112107	238/									
						Bloc	oms Level					_		Luciost
Level 1 (L1): Remembering					Lower	Fixed	Level 4 (L4) : Ana		Higher	Project s /			
Level 2 (L2): Understanding Ord						Hour	Level 5 (L5) : Eva		Order	Mini			
Level 3 (L3): Applying Thinking Exams Level 6 (L6): Creating													Thinking	Project s
		Maj	pping sy	llabus w	ith Bloo	n's Taxo	onomy L	OT and I	НОТ					
Unit No Unit Name						L1	L2 L3 L4 L5 L6 LO						нот	Total
Unit 1 INTRODUCTION TO PROCESS PLANNII					NNING	2	2	2				6	0	6
Unit 2 PROCESS PLANNING ACTIVITIES							5	1				6	0	6
Un	nit 3	INTRODUC	CTION TO CO	OST ESTIMA	TION	3		3				6	0	6
Un	nit 4	PRODUCTI	ON COST ES	STIMATION				4				4	0	4
Un	nit 5	MACHININ	G TIME CAI	CULATION				5				5	0	5
		To	otal			5	7	15	0	0	0	27	0	27
		Total Pe	ercentag	ge		18.5185	25.9259	55.5556	0	0	0	100	0	100
CO PO Mapping														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2												1	0
CO2	2	2	1										1	0
CO3	2	2											2	2
CO4	2	2	2										2	2
CO5	2	2	2										2	2
Avg	1	1	1										2	2
					Jus	tification f	for CO-PO	mapping						
CO1	Knowled	ge of math	ematics sc	ience engi	neering fun	damentals	is require	d (PO1)						
CO2	knowledge of mathematics science engineering fundamentals is required (PO1) first principles of mathematics is required for solving													ng
CO3	knowledge of mathematics science engineering fundamentals is required (PO1), first principles of mathematics is required for solving (PO2)													
CO4	knowledge of mathematics science engineering fundamentals is required (PO1), first principles of mathematics is required for solving (PO2), Design solutions for complex engineering problems (PO3)													ıg
CO5	knowledge of mathematics science engineering fundamentals is required (PO1), first principles of mathematics is required for solving (PO2), Design solutions for complex engineering problems (PO3)												ng	
	3 High level 2				2	M	oderate le	vel		1		Low level		
	Sign of Fa	•												
	Sign of Su	, i												
Head of t	the Depart	ment	· Dr	S. Prasath										