SESSION: BRANCH: SEMESTER: SUBJECT: NAME OF THE		WINTER 2023													
		MECHANICAL ENGINEERING  3RD SEC-A  PRODUCTION ENGINEERING (TH-01)													
										EACILI	TV.				
										IVAIVIE	OF THE	FACUL	JLTY: SURANJAN MOHAN		
		SL NO.	монтн	CHAPT. NO.	DATE	TOPICS TO BE COVERED	NO. OF ACADEMIC DAYS AVAILABLE FOR THE SUBJECT	% CONTREC							
1	AUGUST	1	4.8.23	1.1 Extrusion: Definition & Classification	16	30%									
			5.8.23	1.2 Explain direct, indirect and impact extrusion process											
			8.8.23	1.3 Define rolling. Classify it.											
			9.8.23	1.4 Differentiate between cold rolling and hot rolling process											
			11.8.23	1.5 List the different types of rolling mills used in Rolling process											
			12.8.23	List the different types of rolling mills used in Rolling process											
		2	16.8.23	2.1 Define welding and classify various welding processes	p. d										
	4		18.8.23	Define welding and classify various welding processes											
		15.	19.8.23	2.2 Explain fluxes used in welding											
		1	21.2.23	Explain fluxes used in welding											
		A	22.8.23	2.3 Explain Oxy-acetylene welding process.											
			23.8.23	2.4 Explain various types of flames used in Oxyacetylene welding process.											
			25.8.23	Explain various types of flames used in Oxyacetylene welding process.											
			26.8.23	2.5 Explain Arc welding process											
				2.6 Specify arc welding electrodes											
				2.7 Define resistance welding and classify it.											
2	SEPTEMBER	2	1.9.23	Define resistance welding and classify it.	1.8	32%									
			2.9.23	2.8 Describe various resistance welding processes											
				such as butt welding, spot welding, flash welding, projection welding and seam welding.											
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				projection welding and seam welding.											
				Describe various resistance welding processes such as butt welding, spot welding, flash											
	1000			welding, projection welding and seam welding.											
		1	THE RESERVE THE PERSON NAMED IN COLUMN 2 I	2.9 Explain TIG and MIG welding process											
		L	9.9.23	Explain TIG and MIG welding process											

		11.9.2	23 2.10 State different welding defects with causes and	·	
			remedies		
1	3	12.9.	23 3.1 Define Casting and Classify the various Casting		
			processes		
		13.9	.23 3.2 Explain the procedure of Sand mould casting		
			.23 3.3 Explain different types of molding sands with their	100	
		13.5	composition and properties		
		16.9	3.4 Classify different pattern and state various pattern		
		10.5	allowances	William Co.	
		22.9	9.23 3.5 Classify core		
			9.23 3.6 Describe construction and working of cupola and	0	
		123.	crucible furnace.		
		25.	9.23 Describe construction and working of cupola and crucible		
			furnace.		
		26	.9.23 3.7Explain die casting method.		
1	1	_	1.9.23 3.8 Explain centrifugal casting such as true centrifugal		
			casting, centrifuging with advantages, limitation and area		
			of application		
		2	9.9.23 Explain centrifugal casting such as true		
			centrifugal casting, centrifuging with		
			advantages, limitation and area of application		
1	1	13	30.9.23 3.9Explain various casting defects with their		
·		1	causes and remedies		
3	CACTIONER	4	3.10.23 4.1 Define powder metallurgy process	9	16%
		-	4.10.23   4.2 State advantages of powder metallurgy		
1			technology technique		
		T	6.10.23 4.3 Describe the methods of producing components		
			by powder metallurgy technique.		
			7.10.23 4.4 Explain sintering		
0.00			9.10.23 4.5 Economics of powder metallurgy.		
		5	10.10.23 5.1 Describe Press Works: blanking, piercing and		
			trimming.		
			11.10.23 5.2 List various types of die and punch		
			13.10.23 5.3 Explain simple, Compound & Progressive dies		
			31.10.23 Explain simple, Compound & Progressive dies	1	
4	NOVEMBER	5	1.11.23 Explain simple, Compound & Progressive dies	1.2	22%
			3.11.23 5.4 Describe the various advantages & disadvantage	5	
			of above dies		
		6	4,11.23 6.1 Define jigs and fixtures		
			6.11.23 6.2 State advantages of using jigs and fixtures		
			7.11.23 6.3 State the principle of locations		
			8.11.23 6.4 Describe the methods of location with respect to 3-2-		
			point location of rectangular jig	_	
			10.11.23 6.4 Describe the methods of location with respect to 3-2-	1	
			point location of rectangular jig 13.11.23 6.51 ist various types of jig and fixtures	_	
				-	
			14.11 23 List various types of jig and fixtures		
			15.11 23 REVISION		1
			17.11.23 REVISION 18.11.23 REVISION	-	
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BRIEF SUMMARY OF THE PLAN						
L. NO.	MONTH	UNIT/CHAPTER TO BE COVERED	% coverage			
1	AUGUST	CH-1, CH-2	30%			
7	SEPTEMBER	CH-2, CH-3	32%			
3	OCTOBER	CH-4, CH-5	16%			
3	NOVEMBER	CH-5, CH-6	22%			
4 1	NOVEMBER	,	1			

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