

SESSION:		WINTER 2023					
BRANCH:		MECHANICAL ENGINEERING					
SEMESTER:		3RD SEC-B					
SUBJECT:		PRODUCTION TECHNOLOGY (TH-01)					
NAME OF THE FACULTY:			SATYAJIT PANDA				
SL NO.	MONTH	CHAPT. NO.	DATE	TOPICS TO BE COVERED	NO. OF ACADEMIC DAYS AVAILABLE FOR THE SUBJECT	% COVERED	
1	AUGUST	1	4.8.23	1.1 Extrusion: Definition & Classification	17	30%	
			5.8.23	1.2 Explain direct, indirect and impact extrusion process			
			9.8.23	1.3 Define rolling. Classify it.			
			10.8.23	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			
			17.8.23	Define welding and classify various welding processes			
			18.8.23	2.2 Explain fluxes used in welding			
			19.8.23	Explain fluxes used in welding			
			21.8.23	2.3 Explain Oxy-acetylene welding process.			
			23.8.23	2.4 Explain various types of flames used in Oxy-acetylene welding process.			
			24.8.23	Explain various types of flames used in Oxy-acetylene welding process.			
			25.8.23	2.5 Explain Arc welding process			
			26.8.23	2.6 Specify arc welding electrodes			
28.8.23	2.7 Define resistance welding and classify it.						
2	SEPT.	2	31.8.23	Define resistance welding and classify it.	19	32%	
			1.9.23	2.8 Describe various resistance welding processes such as butt welding, spot welding, flash welding, projection welding and seam welding.			
			2.9.23	Describe various resistance welding processes such as butt welding, spot welding, flash welding, projection welding and seam welding.			
			4.9.23	Describe various resistance welding processes such as butt welding, spot welding, flash welding, projection welding and seam welding.			

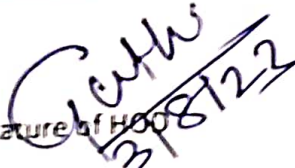
			7.9.23	2.9 Explain TIG and MIG welding process		
			8.9.23	Explain TIG and MIG welding process		
			9.9.23	2.10 State different welding defects with causes and remedies		
		3	11.9.23	3.1 Define Casting and Classify the various Casting processes		
			13.9.23	3.2 Explain the procedure of Sand mould casting		
			14.9.23	3.3 Explain different types of molding sands with their composition and properties		
			15.9.23	3.4 Classify different pattern and state various pattern allowances		
			16.9.23	3.5 Classify core		
			21.9.23	3.6 Describe construction and working of cupola and crucible furnace.		
			22.9.23	Describe construction and working of cupola and crucible furnace.		
			23.9.23	3.7 Explain die casting method.		
			25.9.23	3.8 Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and area of application		
			27.9.23	Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and area of application		
			28.9.23	3.9 Explain various casting defects with their causes and remedies		
		4	29.9.23	4.1 Define powder metallurgy process		
			30.9.23	4.2 State advantages of powder metallurgy technology technique		
3	OCT.	4	4.10.23	4.3 Describe the methods of producing components by powder metallurgy technique.	9	15%
			5.10.23	4.4 Explain sintering		
			6.10.23	4.5 Economics of powder metallurgy.		
		5	7.10.23	5.1 Describe Press Works: blanking, piercing and trimming.		
			9.10.23	5.2 List various types of die and punch		
			11.10.23	5.3 Explain simple, Compound & Progressive dies		
			12.10.23	Explain simple, Compound & Progressive dies		
			13.10.23	Explain simple, Compound & Progressive dies		
			14.10.23	5.4 Describe the various advantages & disadvantages of above dies		
4	NOV.	6	1.11.23	6.1 Define jigs and fixtures	13	23%
			2.11.23	6.2 State advantages of using jigs and fixtures		
			3.11.23	6.3 State the principle of locations		
			4.11.23	6.4 Describe the methods of location with respect to 3-2-1 point location of rectangular jig		
			6.11.23	6.4 Describe the methods of location with respect to 3-2-1 point location of rectangular jig		
			8.11.23	6.5 List various types of jig and fixtures		

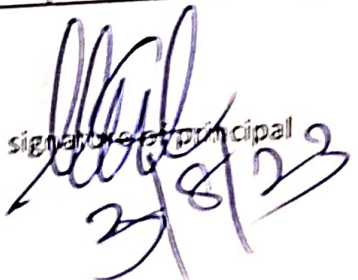
9.11.23	List various types of jlg and fixtures
10.11.23	REVISION
13.11.23	REVISION
15.11.23	REVISION
16.11.23	REVISION
17.11.23	REVISION
18.11.23	REVISION

BRIEF SUMMARY OF THE PLAN

SL. NO.	MONTH	UNIT/CHAPTER TO BE COVERED	% COVERAGE
1	AUGUST	CH-1, CH-2	30%
2	SEPTEMBER	CH-2, CH-3	32%
3	OCTOBER	CH-4, CH-5	15%
4	NOVEMBER	CH-5, CH-6	23%

signature of faculty


signature of HOD

 3/8/23

signature of principal

 3/8/23