	GOVT. POLYTECHNIC MAYURBHANJ						
ACADEMIC SESSION-2022-23 LESSON PLAN							
Discipline : Mechanical ENGG.		Semester: 3rd Sem	Name of the Teaching Faculty : Mihir mohanta				
SUBJECT- Production Technology		No. of Days / per week class allotted :	Somester From date: 15 lig /ii// In 13te: 71 lig				
MONTH	Week	Day	Topics				
	3RD	4TH	1. Metal Forming Processes: Discuss about metal forming prosess				
		5TH	Extrusion: Definition & Classification				
3 R	4TH	1ST	Differentiate between cold rolling and hot rolling process, List the different types of rolling mills used in Rolling process				
		1ST	List the different types of rolling mills used in Rolling process				
SEPTEMBER		4TH	Revision				
PT		5TH	2.Welding : Define welding and classify Various welding processes. Explain fluxes used in welding				
SE]	5TH	1ST	Explain Oxy-acetylene welding process.				
J 2		1ST	Explain various types of flames used in Oxy-acetylene welding process.				
		4TH	Explain Arc welding process.				
		5TH	Specify arc welding electrodes				
	3RD	1ST	Define resistance welding and classify it, Describe various reswelding, spot welding,	sistance welding processes such as butt			
		1ST	Describe flash welding, projection welding and seam welding				
		4TH	Explain TIG and MIG welding process				
${f E}$		5TH	State different welding defects with causes and remedies.				
]B	4TH	1ST	Revision				
OCTOBER		1ST	Revision				
00		4TH	Class test-1				
		5TH	Class test-1				
	5TH	4TH	3.Casting : Define Casting and Classify the various Casting p	processes			
		5TH	Explain the procedure of Sand mould casting and different ty composition and properties.	pes of molding sands with their			
	1ST	4TH	Classify different pattern and state various pattern allowances				
		5TH	Classify core.				
		1ST	Describe construction and working of cupola				
		1ST	Explain die casting method.				

NOVEMBER	2ND	4TH	Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and	
			area of application.	
		5TH	Explain various casting defects with their causes and remedies	
		1ST	Revision	
	3RD	1ST	Revision	
		4TH	4. Powder Metallurgy: Define powder metallurgy process.	
		5TH	State advantages of powder metallurgy technology technique	
		1ST	Describe the methods of producing components by powder metallurgy technique.	
	4TH	1ST	Describe the methods of producing components by powder metallurgy technique.	
		4TH	Explain sintering.	
		5TH	Economics of powder metallurgy.	
	5TH	1ST	Revision	
	3111	1ST	Revision	
	1ST	4TH	5.Press Work: Describe Press Works	
	131	5TH	Describe Press Works: blanking, piercing and trimming.	
		1ST	List various types of die and punch	
	2ND	1ST	Explain simple, Compound ,Explain Progressive dies	
~	2ND	4TH	Describe the various advantages & disadvantages of above dies	
EER		5TH	Describe the various advantages & disadvantages of above dies	
DECEMBER		1ST	Revision	
	3RD	1ST	Revision	
E	SKD	4TH	Internal Exam	
		5TH	Internal Exam	
		1ST	Jigs and fixtures: Discuss about Jigs and Fixture	
	4TH	1ST	Define jigs and fixtures	
	4111	4TH	State advantages of using jigs and fixtures, State the principle of locations	
		5TH	State advantages of using jigs and fixtures, State the principle of locations	
		1ST	Describe the methods of location with respect to 3-2-1 point location of rectangular jig	
	1ST	1ST	Describe the methods of location with respect to 3-2-1 point location of rectangular jig	
JANUARY		4TH	Describe the methods of location with respect to 3-2-1 point location of rectangular jig	
	Γ	5TH	Revision	
	2ND	1ST	Revision	
		1ST	Revision	
N		3RD	Classtest-2	
JA		5TH	Revision	

	1ST	Revision
3RD	1ST	Previous Year Question Discussion
	4TH	Previous Year Question Discussion
	5TH	Previous Year Question Discussion

HOD, Mechanical Govt. Polytechnic Mayurbhanj Subject Expert Govt. Polytechnic Mayurbhanj Academic Co-Ordinator Govt. Polytechnic Mayurbhanj