

GOVT. POLYTECHNIC BOLANGIR		LESSON
PLAN		
Discipline : AUTOMOBILE	Semester: 3RD	Name of the Teaching Faculty : Faculty 1
Subject : PRODUCTION TECHNOLOGY	No. of Days / per week class allotted :	Semester From date : SEP-15-2022 To Date : DEC-22-2022 No. of Weesks : 13
Week	Class Day	Topics
3RD SEP	1st	<b>EXTRUSION</b> : Defination & Classification
	2nd	Direct, indirect and impact extrusion process.
	3rd	Defination of rolling and its classification
	4th	Difference between cold rolling and hot rolling process.
4TH SEP	1st	Different types of rolling mills used in Rolling process.
	2nd	Revision , Question and Answer Discussion
	3rd	Defination of <b>welding</b> and classification of various welding processes.
	4th	Types of fluxes used in welding
2ND OCT	1st	Oxy-acetylene welding process
	2nd	Various types of flames used in Oxy-acetylene welding process.
	3rd	Arc welding process
	4th	Arc welding electrodes and its Type
3RD OCT	1st	Defination of Resistance welding and its classification
	2nd	Various resistance welding processes such as butt welding, spot welding,
	3rd	Flash welding, projection welding and seam welding
	4th	TIG welding process
4TH OCT	1st	MIG welding process
	2nd	Different welding defects with causes and remedies
	3rd	Question & answer discussion
	4th	<b>Casting</b> and Classification of the various Casting processes
1ST NOV	1st	The procedure of Sand mould casting.
	2nd	Different types of molding sands with their composition and properties
	3rd	Classification of different patterns and Defination of various pattern allowances
	4th	Classification of Core
2ND NOV	1st	Making of cores
	2nd	Core application
	3rd	Construction and working of cupola and crucible furnace
	4th	Die casting method
3RD NOV	1st	Centrifugal casting
	2nd	Centrifugal casting's advantages, limitation and area of application.
	3rd	Casting defects with their causes and remedies.
	4th	Revision

<b>4TH NOV</b>	1st	<b>Powder Metallurgy process</b> and Its defination
	2nd	Advantages of powder metallurgy technology technique
	3rd	The methods of producing components by powder metallurgy technique
	4th	<b>Sintering</b>
<b>1ST DEC</b>	1st	Economics of powder metallurgy
	2nd	<b>Press Works:</b> blanking, piercing and trimming
	3rd	Various types of die and punch
	4th	Simple, Compound & Progressive dies
<b>2ND DEC</b>	1st	The various advantages & disadvantages of Simple, Compound & Progressive dies
	2nd	Defination of <b>jigs and fixtures</b>
	3rd	Advantages of using jigs and fixtures
	4th	State the principle of locations
<b>3RD DEC</b>	1st	Describe the methods of location with respect to 3-2-1 point location of rectangular jig
	2nd	List various types of jig and fixtures.
	3rd	Doubt clear class
	4th	Doubt clear class