

GOVT. POLYTECHNIC BOLANGIR

LESSON PLAN

Discipline : AUTOMOBILE	Semester:3RD	Name of the Teaching Faculty : SNEHASIS SAHOO
Subject :	No. of Days / per week class allotted :	Semester From date : OCT-1-2021 To Date : JAN-8-2022 No. of Weeks : 13
Week	Class Day	Topics
1ST OCT	1st	EXTRUSION : 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.
2ND OCT	1st	Different types of rolling mills used in Rolling process.
	2nd	Question and Answer Discussion
	3rd	PUJA HOLIDAYS
	4th	
3RD OCT	1st	PUJA HOLIDAYS
	2nd	
	3rd	Revision
	4th	Defination of welding and classification of various welding processes.
4TH OCT	1st	Types of fluxes used in welding
	2nd	Oxy-acetylene welding process
	3rd	Various types of flames used in Oxy-acetylene welding process.
	4th	Arc welding process
1ST NOV	1st	Arc welding electrodes and its Type
	2nd	Defination of Resistance welding and its classification
	3rd	Various resistance welding processes such as butt welding, spot welding,
	4th	Flash welding, projection welding and seam welding

2ND NOV	1st	TIG welding process
	2nd	MIG welding process
	3rd	Different welding defects with causes and remedies
	4th	Question & answer discussion

3RD NOV	1st	Casting and Classification of the various Casting processes
	2nd	The procedure of Sand mould casting.
	3rd	Different types of molding sands with their composition and properties
	4th	Classification of different patterns and Defination of various pattern allowances

4TH NOV	1st	Classification of Core
	2nd	Making of cores
	3rd	Core application
	4th	Construction and working of cupola and crucible furnace

1ST DEC	1st	Die casting method
	2nd	Centrifugal casting
	3rd	Centrifugal casting's advantages, limitation and area of application.
	4th	Casting defects with their causes and remedies.

2ND DEC	1st	Doubt clear class
	2nd	Powder Metallurgy process and Its defination
	3rd	Advantages of powder metallurgy technology technique
	4th	The methods of producing components by powder metallurgy technique

3RD DEC	1st	Sintering
	2nd	Economics of powder metallurgy
	3rd	Press Works: blanking, piercing and trimming
	4th	Various types of die and punch

4TH DEC	1st	Simple, Compound & Progressive dies
	2nd	The various advantages & disadvantages of Simple, Compound & Progressive dies
	3rd	Doubt clear class
	4th	Defination of jigs and fixtures

1ST JAN	1st	Advantages of using jigs and fixtures
	2nd	Q&A
	3rd	Q&A
	4th	Q&A