: Mechanical ngg.	Semester: 3rd Sem	ACADEMIC SESSION-2023-24 LESSON PLAN
ngg.	Semester: 3rd Sem	
	Semester: 3rd Sem	Name of the Teaching Faculty : Mihir mohanta
- Production nology	No. of Days / per week class allotted : 04	Semester From date : 01.08.2023 To Date : 30.11.2023
Week	Day	Topics
1ST	3RD 3RD	1. Metal forming Processes: Discuss about metal forming prosess Extrusion: Definition & Classification Explain direct, indirect and impact extrusion process
	6ТН	Define rolling. Classify it. Differentiate between cold rolling and hot rolling process
2ND	3RD	List the different types of rolling mills used in Rolling process Revision
	5TH 6TH	2. Welding: Define welding and classify various welding processes. Explain fluxes used in welding
3RD	3RD 3RD	Explain Oxy-acetylene welding process. Explain various types of flames used in Oxy-acetylene welding process.
	5TH	Explain Arc welding process.
	6TH	Specify arc welding electrodes.
4TH	3RD	Define resistance welding and classify it
	3RD	Describe various resistance welding processes such as butt welding, spot welding,
	5TH 6TH	flash welding, projection welding and seam welding Explain TIG & MIG
1ST	5TH	State different welding defects with causes and remedies.
2ND		Revision 3. Casting: Define Casting and Classify the various Casting processes
	6TH	Explain the procedure of Sand mould casting
3RD	3RD	Explain different types of molding sands with their composition and properties.
	3RD	Classify different pattern
	5TH	Class test-1
	6TH	Class test-1
4TH	5TH	state various pattern allowances
	6TH	Classify core.
5ТН	3RD	Describe construction and working of cupola furnace
	3RD	Describe construction and working crucible furnace
	6TH 3RD	Explain die casting method. Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and area of application.
	1ST 2ND 3RD 4TH 1ST 2ND 3RD	Week Day 3RD 3RD 3RD 5TH 6TH 5TH 6TH 5TH 6TH 3RD 3RD 3RD 5TH 6TH 4TH 5TH 6TH 3RD 5TH 6TH 3RD 3RD 5TH 6TH 3RD 3RD 5TH 6TH 5TH 6TH

OCTOBER	1ST	3RD	Explain various casting defects with their causes and remedies
		5TH	Revision
		6TH	4.Powder Metallurgy: Define powder metallurgy process
	2ND	3RD	State advantages of powder metallurgy technology technique
		3RD	Describe the methods of producing components by powder metallurgy technique.
		5TH	Internal
		6TH	Explain sintering.
		3RD	Economics of powder metallurgy.
	3RD	3RD	Revision
		5TH	5. Press Work: Describe Press Works: blanking, piercing and trimming.
NOVEMBER		3RD	List various types of die and punch
	「	3RD	Explain simple, Compound dies
	1ST	5TH	Explain Progressive dies
		6TH	Describe the various advantages & disadvantages of above dies
		3RD	Revision
	2ND	3RD	6. Jigs and fixtures: Define jigs and fixtures, State advantages of using jigs and fixtures
		5TH	State the principle of locations
		6TH	Describe the methods of location with respect to 3-2-1 point location of rectangular jig
	3RD	3RD	Describe 3-2-1 principle of location
		3RD	Describe 3-2-1 principle of location
		5TH	List various types of jig
		6TH	Types of fixture
		3RD	Revision
	4TH	3RD	Previous year question discussion
		5TH	Previous year question discussion
		6TH	Previous year question discussion
	5TH	3RD	Classtest-2

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