Lesson plan winter 2021

Discipline :Mechanical angineering.	Semester:3rd	Name of the Teaching Faculty :SN GHOSE.
Subject:PRODUCTION	No of Days /Per week class	Semester from date 01.08.2021 to 31.01.2022
rechnology.	allotted	No of week:15
Week	Class day	Theory/Practical topics
	1st	UNIT -01 Metal Forming Processes.1.1 Extrusion: Definition & Classification.
,	2nd	1.2 Explain direct, indirect Extrusion.
1St	3rd	1.2 impact extrusion process.
	4th	1.3 Define rolling. Classify it.
	1st	
	2nd	
	3rd	PUJA VACATION
2n d	4th	- I OSA VACATION
Y	1st	1.4 Differentiate between cold rolling and hot rolling process.
3rd	2nd	1.5 List the different types of rolling mills used in Rolling process.
	3rd	1.5 Individual explain it.
	4th	Unit -02 -Welding.Introduction about welding joint.
	1st	2.1 Define welding and classify various welding process.
	2nd	2.2 Explain fluxes used in welding.
4th	3rd	2.3 Explain Oxy-acetylene welding process.
	4th	2.4 Explain various types of flames used in Oxy-acetylene welding process.
	1st	2.5 Explain Arc welding process.
1	2nd	2.6 Specify arc welding electrodes.
5th	3rd	2.7 Define resistance welding and classify it
	4th	2.8 butt welding.
	1st	2.8 spot welding.
5th	2nd	2.8 flash welding.
	3rd	2.8 projection welding.
	4th	2.8 seam welding.
	1st	2.9 Explain TIG and MIG welding process& Difference.
	2nd	2.10 State different welding defects with causes.
7th	3rd	2.10 remedies explain it.
	4th	UNIT-03 Casting.Introduction
	1st	3.1 Define Casting and Classify the various Casting
		processes.

3th	2nd	2.2 Explain the presenting of Country 11
3111	3rd	3.2 Explain the procedure of Sand mould casting.
	31u	3.3 Explain different types of molding sands with their composition.
	4th	3.3 Explain different types of molding sands With their
		properties.
	1st	3.4 Classify different pattern and explain it.
9th LOth	2nd	3.4 state various allowancesand explain it.
	3rd	3.5 Classify core & Explain it.
	4th	3.6 Describe construction and working of cupolafurnace.
	1st	3.6 Describe construction and working of cupola crucible furnace.
	2nd	
	3rd	3.7 Explain die casting method.
	4th	3.8 Explain centrifugal casting such as true centrifugal.
	701	3.8 centrifuging with advantages, limitation and area of application.
11th .	1st	3.8 Limitation and area of application.
	2nd	3.9 Explain various casting defects with their causes.
	3rd	3.9 Explain various casting defects and remedies •
	4th	UNIT-4.0 Powder Metallurgy.
		Introduction
12th	1st	4.1 Define powder metallurgy process.
	2nd	4.2 State advantages of powder metallurgy technology .
	3rd	4.3 Describe the methods of producing components by
		powder metallurgy technique.
	4th	4.4 Explain sintering.
13th	1st	4.4 process of sintering.
	2nd	4.5 Economics of powder metallurgy.
	3rd	5.0 Press Work.
		5.1Introduction.
	4th	5.1 Describe Press Works: blanking.
	1st	5.1 piercing and trimming.
	2nd	5.2 List various types of die and punch.
	3rd	5.3 Explain simple, Compound Dies.
14th	4th	5.3 Progressive die
15th	1st	5.4 Describe various advantages & disadvantages dies.
	2nd	6.0 Jigs and fixtures. Introduction
	3rd	6.1 Define jigs and fixtures.
	4th	6.2 State advantages of using jigs and fixtures.
	1st	6.3 State the principle of locations.
	2nd	6.4 Describe methods of location with respect to 3-2-1
		pointlocation of rectangular jig.
16th	3rd	6.5 List various types of jig.
	4th	6.5 List various types of Fixtures.



