

## PRODUCTION LESSON PLAN

Discipline : Mechanical Engg.	Semester : 3RD	Name of the Teachnig Faculty : Miss BHAGYASHREE PATRA
Subject : Production Technology	No.of days/Per weeks Class Alloted :4	Semester From Date: 15th sep 2022 To Date: 22nd dec 2022
Weeks	Class day	Theory
3rd(sep-2022)	1st	1.1Extrusion: Definition & Classification
	2nd	1.2Explain direct, indirect and impact extrusion process.
	3rd	1.3Define rolling. Classify it.
	4th	1.4Differentiate between cold rolling and hot rolling process.
4th(sep-2022)	1st	1.5List the different types of rolling mills used in Rolling process
	2nd	1.5List the different types of rolling mills used in Rolling process
	3rd	2.1Define welding and classify various welding processes.
	4th	2.2Explain fluxes used in welding.
2nd (Oct-2022)	1st	CLASS TEST-1
	2nd	2.3Explain Oxy-acetylene welding process.
	3rd	2.4Explain various types of flames used in Oxy-acetylene welding process.
	4th	2.5Explain Arc welding process.
3rd (Oct-2022)	1st	2.6Specify arc welding electrodes.
	2nd	2.7Define resistance welding and classify it.
	3rd	2.7Define resistance welding and classify it.
	4th	2.8Describe various resistance welding processes such as butt welding, spot welding, flash welding, projection welding and seam welding.
4th (Oct-2022)	1st	2.8Describe various resistance welding processes such as butt welding, spot welding, flash welding, projection welding and seam welding.
	2nd	2.9Explain TIG and MIG welding process
	3rd	2.9Explain TIG and MIG welding process
	4th	2.10State different welding defects with causes and remedies.
1st (Nov-2022)	1st	2.10State different welding defects with causes and remedies.
	2nd	3.1Define Casting and Classify the various Casting processes.
	3rd	3.1Define Casting and Classify the various Casting processes.



	4th	3.2 Explain the procedure of Sand mould casting.
<b>2nd (Nov-2022)</b>	1st	<b>CLASS TEST-2</b>
	2nd	
	3rd	
	4th	
<b>3rd (Nov-2022)</b>	1st	3.3 Explain different types of molding sands with their composition and properties.
	2nd	3.4 Classify different pattern and state various pattern allowances.
	3rd	3.4 Classify different pattern and state various pattern allowances.
	4th	INTERNAL ASSESSMENT
<b>4th (Nov-2022)</b>	1st	INTERNAL ASSESSMENT
	2nd	INTERNAL ASSESSMENT
	3rd	INTERNAL ASSESSMENT
	4th	INTERNAL ASSESSMENT
<b>1st (Dec-2022)</b>	1st	3.5 Classify core.
	2nd	3.6 Describe construction and working of cupola and crucible furnace.
	3rd	3.8 Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and area of application.
	4th	3.8 Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and area of application.
<b>2nd (Dec-2022)</b>	1st	3.9 Explain various casting defects with their causes and remedies.
	2nd	3.9 Explain various casting defects with their causes and remedies.
	3rd	4.1 Define powder metallurgy process.
	4th	4.2 State advantages of powder metallurgy technology technique
<b>3rd (Dec-2022)</b>	1st	4.3 Describe the methods of producing components by powder metallurgy technique.
	2nd	4.4 Explain sintering.
	3rd	4.5 Economics of powder metallurgy.
	4th	5.1 Describe Press Works: blanking, piercing and trimming.
<b>4th (Dec-2022)</b>	1st	Difference between Blanking and Punching
	2nd	5.2 List various types of die and punch
	3rd	5.3 Explain simple, Compound & Progressive dies.
	4th	6.1 Define jigs and fixtures
<b>1st (Jan-2023)</b>	1st	6.2 State advantages of using jigs and fixtures
	2nd	6.3 State the principle of locations
	3rd	6.4 Describe the methods of location with respect to 3-2-1 point location of rectangular jig
	4th	6.5 types of JIG and Fixture

Porter  
(B. Porter-Mech)