

Discipline: Mechanical		Semester: 3rd.	Name of the Teaching Faculty Tapas Kumar Panda	
Subject: Production Technology		No of Days/Week Class Allotted: 4	Semester From date: 20/10/2021 To date: 18/11/2022	No. of Weeks:
WEEK	Class Day	Theory Topics		
20/10/2021 to	1st	1.0. Metal Forming Process. (Introduction)		
	2nd	1.1. Extrusion & classification.		
	3rd	1.2. Direct & Indirect Extrusion Process.		
	4th	1.3. Impact Extrusion Process. 1.4. Differentiate between cold rolling & hot rolling process.		
23/10/2021	5th			
25/10/2021 to	1st	1.5. Types of Rolling Mill.		
	2nd	2.1. Introduction to <u>welding</u> & classification.		
	3rd	2.2. Fluxes used in welding & requirements.		
30/10/2021	4th	2.3. Equipment of Oxy-acetylene welding Process.		
	5th			
1/11/2021 to	1st	2.4. Types of Flame Produced in Gas welding process.		
	2nd	2.5. Introduction to Arc welding Process.		
	3rd	2.6. Arc welding electrodes & use of flux.		
6/11/2021	4th	2.7. Introduction to Resistance welding & classification of Resistance welding.		
	5th	← class test →		

WEEK	Class Day	Theory Topics
8/11/2021 to	1st	2.8. Description of various resistance welding process.
	2nd	2.9. Explanation of MIG & TIG process.
	3rd	2.10. Different types of welding defects with cause & remedies.
	4th	<u>Casting</u>
13/11/2021	5th	3.1. Introduction to Casting & different Casting process.
	5th	
15/11/2021 to	1st	3.2. Procedure of sand casting process.
	2nd	3.3. Different types of moulding sand with their composition & properties.
	3rd	3.4. Types of pattern.
	4th	3.4. Continue of above.
20/11/2021	5th	3.5. Pattern allowances.
22/11/2021 to	1st	3.6. Core & types of core, Making of core.
	2nd	3.7. Construction of Cupola furnace.
	3rd	3.8. Construction of Crucible furnace.
27/11/2021	4th	3.9. Die Casting method. Hot & Cold chamber process.
	5th	

Discipline: Mechanical		Semester: 3 rd	Name of the Teaching Faculty: Kapal Kumar Panda	
Subject: Production Technology		No of Days/Week Class Allotted: 4	Semester From date: 01.10.21 To date: 12.01.22	No. of Weeks: 15
WEEK	Class Day	Theory Topics		
29/11/2021 to	1st	3.10. Centrifugal Casting & types of Centrifugal Casting.		
	2nd	3.11. Advantages & disadvantages of Centrifugal Casting & Die Casting.		
	3rd	3.12. Casting Defects & Remedies.		
	4th	4.1. Powder Metallurgy Process. 4.2. Advantages of above.		
4/12/2021	5th	(Class Test - 1)		
6/12/2021 to	1st	4.3. Methods of producing Metal Powder.		
	2nd	4.4. Sintering Process.		
	3rd	4.5. Economics of Powder Metallurgy.		
	4th	5.1. Introduction to Press Work, 5.1. Types of sheet metal Operations.		
11/12/2021	5th			
13/12/2021 to	1st	5.2. Different types of dies. 5.3. Different types of punch.		
	2nd	5.4. Simple & Compound die.		
	3rd	5.4. Progressive die.		
18/12/2021	4th	5.5. Advantages & Disadvantages of above dies. ← Class Test →		
	5th			

WEEK	Class Day	Theory Topics
20/12/2021 to	1st	6.1. Definition of Jigs & Fixtures.
	2nd	6.2. Types of Jigs & fixtures.
	3rd	6.3. Advantages of Using jigs & fixtures.
	4th	6.4. Principle of location.
	25/12/2021	5th
27/12/2021 to	1st	6.5. 3-2-1 principle of location.
	2nd	(Continue)
	3rd	(Class Test - II)
	4th	
	1/1/2022	5th
	1st	
	2nd	
	3rd	
	4th	
	5th	