

Dicipline: Mechanical Engg. Dept.	Semester: 3 rd Sem.	Name of the Teaching Faculty: Tapas Kumar Panda.	
Subject: Production Technology. (TH-1)	No of Days/Week Class Allotted: 04	Semester From date: 15/09/22 To date 22/12/22	No. of Weeks: 15

WEEK	Class Day	Theory Topics
15/09/22 to 17/09/22 [1st week]	15/09/22 1st	What is production Technology. why we study this paper. Introduction Class.
	16/09/22 2nd (Friday)	<u>Metal forming Process</u> :- Introduction, Definition About
	17/09/22 3rd (Saturday)	<u>Extrusion</u> :- Definition & classification Explain direct, indirect and impact extrusion process.
	4th	
	5th	
19/09/22 to 24/09/22 [2nd week]	20/09/22 1st (Tuesday)	<u>Rolling Operation</u> :- Introduction, Definition About.
	21/09/22 2nd (Wednesday)	classification Rolling Operation & Types of Rolling Operation.
	22/09/22 3rd (Thursday)	Different types of rolling mills used in Rolling Process.
	23/09/22 4th (Friday)	Different between cold rolling & hot rolling process.
	5th	
26/09/22 to 01/10/22 [3rd week]	27/09/22 1st (Tuesday)	<u>Welding</u> :- Introduction, Definition, Types of welding operation.
	28/09/22 2nd (Wednesday)	Explain oxy-acetylene welding process & why Flux used in welding operation.
	29/09/22 3rd (Thursday)	Explain various types flames used in oxy-acetylene welding process.
	30/09/22 4th (Friday)	<u>Arc welding</u> :- Introduction, Definition & welding briefly describe about arc welding & electrodes.
	5th	

Theory Topics

WEEK	Class Day	Theory Topics
10/10/22 to 15/10/22 [4th week]	11/10/22 1st (Tuesday)	<u>Resistance welding</u> :- Introduction, definition & classification.
	12/10/22 2nd (Wednesday)	Describe various resistance welding processes such as butt welding, spot welding, flash welding, projection welding and seam welding.
	13/10/22 3rd (Thursday)	Briefly explain about TIG welding process.
	14/10/22 4th (Friday)	Briefly explain about MIG welding process.
	5th	
17/10/22 to 22/10/22 [5th week]	18/10/22 1st (Tuesday)	Study about different welding defects.
	19/10/22 2nd (Wednesday)	Study the causes and remedies of the welding defects.
	20/10/22 3rd (Thursday)	Surprise class test - (1) & Assignment (L) Given to students.
	21/10/22 4th (Friday)	Module - (1) & (2) question & answer discussion & doubt clearing class.
	5th	
24/10/22 to 29/10/22	25/10/22 1st (Tuesday)	DIWALI (Holiday)
	26/10/22 2nd (Wednesday)	Explain the procedure of sand mould casting with neat sketch.
	27/10/22 3rd (Thursday)	Explain different types of molding sands with their composition and properties.
	28/10/22 4th (Friday)	Classify different patterns & state various pattern allowances. Classify core.
	5th	

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WEEK	Class Day	Theory Topics
31/10/22 to 05/11/22 (7 th week)	01/11/22 1 st (Tuesday)	<u>Die Casting</u> :- Introduction & Method.
	02/11/22 2 nd (Wednesday)	Explain centrifugal casting such as true centrifugal casting, Advantages & disadvantages.
	03/11/22 3 rd (Thursday)	Explain various types of casting defects.
	04/11/22 4 th (Friday)	Explain the causes and remedies of the casting defects.
	5 th	
07/11/22 to 12/11/22 (8 th week)	08/11/22 1 st (Tuesday)	KARTIK PURNIMA (Holiday)
	09/11/22 2 nd (Wednesday)	Advantages of powder metallurgy technology technique.
	10/11/22 3 rd (Thursday)	Describe the methods of producing components by powder metallurgy technique.
	11/11/22 4 th (Friday)	Explain Sintering.
	5 th	
14/11/22 to 19/11/22 (9 th week)	15/11/22 1 st (Tuesday)	Economics of powder metallurgy.
	16/11/22 2 nd (Wednesday)	Surprise Test - (2) & Assignment (2) given to student.
	17/11/22 3 rd (Thursday)	Module - (3) & (4) doubt clearing class & Important Question & Answer discussion
	18/11/22 4 th (Friday)	<u>Press Work</u> :- Introduction, Defenition
	5 th	

WEEK	Class Day	Theory Topics
21/11/22 to 26/11/22 (10th week)	22/11/22 1st (Tuesday)	Briefly describe regarding blanking, pierce & trimming operation.
	23/11/22 2nd (Wednesday)	Describe various types of die & punch
	24/11/22 3rd (Thursday)	Briefly Explain about simple, compound & Progressive dies
	25/11/22 4th (Friday)	Briefly describe about the Advantages & disadvantages of simple, compound & progressive die
	5th	
28/11/22 to 03/12/22 (11th week)	29/11/22 1st (Tuesday)	Briefly discussion about the dies & its operation process.
	30/11/22 2nd (Wednesday)	different between simple dies & compound dies.
	01/12/22 3rd (Thursday)	different between progressive dies & compound dies.
	02/12/22 4th (Friday)	different between simple dies & progressive dies.
	5th	
05/12/22 to 10/12/22 (12th week)	06/12/22 1st (Tuesday)	<u>Jigs & fixtures</u> :- Introduction & About Jig & fixtures
	07/12/22 2nd (Wednesday)	Defination Jigs & fixtures.
	08/12/22 3rd (Thursday)	Advantages of using Jigs & fixtures.
	09/12/22 4th (Friday)	state the principle of locations.
	5th	

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WEEK	Class Day	Theory Topics
12/12/22 to 17/12/22 [13 th week]	13/12/22 1 st (Tuesday)	Briefly describe the method of location with respect to 3-2-1 point locating of rectangular Jigs.
	14/12/22 2 nd (Wednesday)	Briefly describe the method of locating with respect to 3-2-1 point locating of rectangular Jigs.
	15/12/22 3 rd (Thursday)	Describe various types of Jigs & Advantage.
	16/12/22 4 th (Friday)	Describe various types of fixtures & Advantages.
	5 th	
19/12/22 to 24/12/22 [14 th week]	20/12/22 1 st (Tuesday)	Different between Jigs & fixtures
	21/12/22 2 nd (Wednesday)	How the Jigs & fixtures are different from each
	22/12/22 3 rd (Thursday)	Application, Advantages & disadvantages.
	23/12/22 4 th (Friday)	Surprise class Test (3) Assignment (3) given to students.
	5 th	
26/12/22 to 31/12/22 [15 th week]	27/12/22 1 st (Tuesday)	doubt clearing class for module (5) & (6) & Question answer discussion.
	28/12/22 2 nd (Wednesday)	Revision class from module (1), (2) & (3) Question & Answer discussion with students.
	29/12/22 3 rd (Thursday)	Revision class from module (4), (5) & (6) Question & Answer discussion with students.
	30/12/22 4 th (Friday)	Make a Important Question list & share with student As last Assignment: (4) for Semester Examination.
	5 th	