

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF MECHANICAL ENGINEERING



LESSON PLAN

SUBJECT: PRODUCTION TECHNOLOGY(TH-1)

FACULTY: PRIYADARSINI MALLICK

Priyadarsini Mallick, Lect, Mech.

ACCADEMIC SESSION: 2023-24

SEMESTER: 3RD

SECTION-A

[Signature]
Sd/- 31/07/23

H O D (Mechanical Engg.)

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Discipline:- Mechanical Engineering	Semester :- 3 rd Section-A		Name of the teaching faculty :- PRIYADARSINI MALLICK
Subject Name :- PRODUCTION TECHNOLOGY (TH1)	No. Of Days/Week Class Allotted :- 04 Periods/Week (Monday Tuesday Wednesday Friday)		Semester from Date - 01/08/2023 To Date - 30/11/2023 No. of Weeks: 14
Week	Class Day	No Of periods Available	Theory topics
1st	01/08/2023	1	Syllabus discussion Introduction to Production technology
	02/08/2023	1	1.1 Extrusion: Definition & Classification
	04/08/2023	1	1.2.1 Direct& Indirect Extrusion Process
2nd	07/08/2023	1	1.2.2 Impact Extrusion Process
	08/08/2023	1	1.3 Define rolling. Classify it.
	09/08/2023	1	1.4 Differentiate between cold rolling and hot rolling process.
	11/08/2023	1	1.5 List the different types of rolling mills used in Rolling process
3rd	14/08/2023	1	2.1 Define welding & classify various welding processes.
	16/08/2023	1	2.2 Explain fluxes used in welding.
	18/08/2023	1	2.3 Explain Oxy-acetylene welding process.
4th	21/08/2023	1	2.4 Explain various types of flames used in Oxy-acetylene welding process
	22/08/2023	1	2.5 Explain Arc welding process.
	23/08/2023	1	2.6 Specify Arc welding electrodes
	25/08/2023	1	2.7 Define resistance welding and classify it
5th	28/08/2023	1	2.8.1 Describe Butt Welding, Spot welding And Seam Welding
	29/08/2023	1	2.8.2 Describe Seam Welding

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	31/08/2023	1	2.8.3 Flash welding, Projection Welding
	01/09/2023	1	2.9 .1 Explain TIG Welding
6 th	04/09/2023	1	2.9.2 MIG welding process
	05/09/2023	1	2.10 State different welding defects with Causes and remedies of welding defects
	08/09/2023	1	CLASS TEST-1
7 th	11/09/2023	1	3.1 Define Casting and classify various Casting processes.
	12/09/2023	1	3.2 Explain the procedure of Sand mould casting.
	13/09/2023	1	3.3.1 Explain different types of moulding sands
	15/09/2023	1	3.3.2 Explain composition and properties of different moulding sand
8 th	18/09/2023	1	3.4.1 Classify different pattern
	22/09/2023	1	3.4.2 State Various pattern allowances.
9 th	25/09/2023	1	3.5 Classify core.
	26/09/2023	1	3.6.1 Describe construction and working of Cupola furnace
	27/09/2023	1	3.6.2 Describe construction and working of Crucible Furnace.
10 th	03/10/2023	1	3.7 Explain Die Casting Method.
	04/10/2023	1	3.8.1 Explain True centrifugal casting, advantages, limitation
	06/10/2023	1	3.8.1 Explain area of application of centrifugal casting
11 th	09/10/2023	1	3.8.2 Centrifuging with advantages, limitation and area of application
	10/10/2023	1	3.9 Explain various casting defects with their causes and remedies.
	11/10/2023	1	INTERNAL ASSECEMENT
	13/10/2023	1	INTERNAL ASSECEMENT
12 th	16/10/2023	1	4.1 Define powder metallurgy process.
	17/10/2023	1	4.2 State advantages of powder metallurgy technology technique
	18/10/2023	1	4.3.1 Methods of producing components
	20/10/2023	1	4.3.2 Describe the methods of producing components by powder metallurgy technique.
13 th	30/10/2023	1	4.4 Explain sintering.

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	31/10/2023	1	4.5 Economics of powder metallurgy
	01/11/2023	1	5.1 Describe Press Works: blanking, piercing and trimming.
	03/11/2023	1	5.2 List various types of die and punch
14th	06/11/2023	1	5.3.1 Explain simple Die
	07/11/2023	1	5.3.2 Compound Die
	08/11/2023	1	5.3.3 Progressive Dies
	10/11/2023	1	5.4 Describe the various advantages & disadvantages of above dies
15th	13/11/2023	1	6.1 Define jigs and fixtures
	14/11/2023	1	6.2.1 State advantages of using jigs
	15/11/2023	1	6.2.2 State advantages of using fixtures
	17/11/2023	1	6.3 State the principle of locations
16th	20/11/2023	1	6.4 Describe the methods of location with respect to 3-2-1 point location of rectangular jig
	21/11/2023	1	6.5 List various types of jig and fixtures
	22/11/2023	1	CLASS TEST-2
	24/11/2023	1	REVISION
17th	20/11/2023	1	REVISION
	21/11/2023	1	Previous year questions discussion