

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF MECHANICAL ENGINEERING



LESSON PLAN

SUBJECT: **PRODUCTION TECHNOLOGY(TH-1)**

FACULTY: **PRIYADARSINI MALLICK**

Priyadarshini Mallick, Lect, Mech

ACADEMIC SESSION: **2022-23**

SEMESTER: **3RD**

SECTION-A

[Signature]
Sd/- 14.09.22

H O D (Mechanical Engg.)

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Discipline:- Mechanical Engineering	Semester :- 3rd Section-A		Name of the teaching faculty :- PRIYADARSINI MALLICK
Subject Name :- PRODUCTION TECHNOLOGY (TH-1)	No. Of Days/Week Class Allotted :- 04 Periods/Week (Monday Tuesday Wednesday Friday)		Semester from Date - 15/09/2022 To Date - 22/12/2022 No. of Weeks: 14
Week	Class Day	No Of periods Available	Theory topics
1st	16/09/2022	1	Syllabus discussion Introduction to Production technology 1.1 Extrusion: Definition & Classification
2 nd	19/09/2022	1	1.2.1 Direct Extrusion Process
	20/09/2022	1	1.2.2 Indirect Extrusion Process
	21/09/2022	1	1.2.3 Impact extrusion process.
	23/09/2022	1	1.3 Define rolling. Classify it.
3 rd	26/09/2022	1	1.4 Differentiate between cold rolling and hot rolling process.
	27/09/2022	1	1.5 List the different types of rolling mills used in Rolling process
	28/09/2022	1	2.1 Define welding & classify various welding processes.
	30/09/2022	1	2.2 Explain fluxes used in welding.
4 th	10/10/2022	1	2.3 Explain Oxy-acetylene welding process.
	11/10/2022	1	2.4 Explain various types of flames used in Oxy-acetylene welding process
	12/10/2022	1	2.5 Explain Arc welding process. 2.6 Specify Arc welding electrodes



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	14/10/2022	1	2.7 Define resistance welding and classify it
5 th	17/10/2022	1	2.8.1 Describe Butt Welding, Spot welding And Seam Welding
	18/10/2022	1	2.8.2 Flash welding, Projection Welding
	19/10/2022	1	2.9 .1 Explain TIG Welding
	21/10/2022	1	2.9.2 MIG welding process
6 th	25/10/2022	1	2.10 State different welding defects with Causes and remedies of welding defects
	26/10/2022	1	CLASS TEST-1
	28/10/2022	1	3.1 Define Casting and Classify the various Casting processes.
7 th	31/10/2022	1	3.2 Explain the procedure of Sand mould casting.
	01/11/2022	1	3.3.1 Explain different types of moulding sands, composition and properties of different moulding sand
	02/11/2022	1	3.4.1 Classify different pattern
	04/11/2022	1	3.4.2 State Various pattern allowances.
8 th	07/11/2022	1	3.5 Classify core.
	09/11/2022	1	3.6.1 Describe construction and working of cupola furnace
	11/11/2022	1	3.6.2 Describe construction and working of Crucible Furnace.
9 th	14/11/2022	1	3.7 Explain Die Casting Method.
	15/11/2022	1	3.8.1 Explain centrifugal casting such as true centrifugal casting, advantages, limitation and area of application of centrifugal casting
	16/11/2022	1	3.8.2Centrifuging with advantages, limitation and area of application
	18/11/2022	1	3.9 Explain various casting defects with their causes and remedies.
10 th	21/11/2022	1	4.1 Define powder metallurgy process. 4.2 State advantages of powder metallurgy technology technique
	22/11/2022	1	4.3 Describe the methods of producing components by powder metallurgy technique.
	23/11/2022	1	4.4 Explain sintering.

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11 th	25/11/2022	1	4.5 Economics of powder metallurgy
	28/11/2022	1	5.1 Describe Press Works: blanking, piercing and trimming.
	29/11/2022	1	5.2 List various types of die and punch
	30/11/2022	1	5.3.1 Explain simple Die
	02/12/2022	1	5.3.2 Compound Die
12 th	05/12/2022	1	5.3.3 Progressive Dies
	06/12/2022	1	5.4 Describe the various advantages & disadvantages of above dies
	07/12/2022	1	6.1 Define jigs and fixtures
	09/12/2022	1	6.2 State advantages of using jigs and fixtures
13 th	12/12/2022	1	6.3 State the principle of locations
	13/12/2022	1	6.4 Describe the methods of location with respect to 3-2-1 point location of rectangular jig
	14/12/2022	1	6.5 List various types of jig and fixtures
	16/12/2022	1	CLASS TEST-2
14 th	19/12/2022	1	REVISION
	20/12/2022	1	REVISION
	21/12/2022	1	DOUBT CLEARING CLASS
	22/12/2022	1	DOUBT CLEARING CLASS

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Week	Class Day	No Of periods Available	Theory topics
15TH	02/01/2023	1	5.1 Describe Press Works: blanking, piercing and trimming.
	03/01/2023	1	5.2 List various types of die and punch
	04/01/2023	1	5.3.1 Explain simple Die 5.3.2 Compound Die
	06/01/2023	1	5.3.3 Progressive Dies
16TH	09/01/2023	1	5.4 Describe the various advantages & disadvantages of above dies
	10/01/2023	1	6.1 Define jigs and fixtures 6.2 State advantages of using jigs and fixtures
	11/01/2023	1	6.3 State the principle of locations
	13/01/2023	1	6.4 Describe the methods of location with respect to 3-2-1 point location of rectangular jig
17TH	16/10/2023	1	6.5 List various types of jig and fixtures
	17/10/2023	1	REVISION
	18/10/2023	1	REVISION
	20/01/2023	1	REVISION

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