

**BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF MECHANICAL ENGINEERING**



LESSON PLAN

**SUBJECT: PRODUCTION TECHNOLOGY (TH-1)
FACULTY: PRIYADARSINI MALLICK**

Priyadarsini Mallick

**ACCADEMIC SESSION: 2024-25
SEMESTER: 3RD
SECTION-A**

H O D (Mechanical Engg.)

Priyadarsini Mallick
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Discipline:- Mechanical Engineering	Semester :- 3 rd Section-A	Name of the teaching faculty :- PRIVADARSINI MALLICK	
Subject Name :- PRODUCTION TECHNOLOGY (TH-1)	No. Of Days/Week Class Allotted :- 04 <u>Periods/Week</u> (Monday Tuesday Wednesday Friday)	Semester from Date - 01/07/2024 To Date - 08/11/2024 No. of Weeks: 18	
Week	Class Day	No Of periods Available	Theory topics
1 st	01/07/2024	1	Syllabus discussion, Introduction to Production technology
	02/07/2024	1	1.1 Extrusion: Definition & Classification
	03/07/2024	1	1.2.1 Direct Extrusion Process
	05/07/2024	1	1.2.2 Indirect Extrusion Process
	08/07/2024	1	1.2.3 Impact extrusion process.
2 nd	09/07/2024	1	1.3 Define rolling. Classify it.
	10/07/2024	1	1.4 Differentiate between cold rolling and hot rolling process.
	12/07/2024	1	1.5 List the different types of rolling mills used in Rolling process
	15/07/2024	1	2.1 Define welding & classify various welding processes.
	16/07/2024	1	2.2 Explain fluxes used in welding.
3 rd	19/07/2024	1	2.3 Explain Oxy-acetylene welding process.
	22/07/2024	1	2.4 Explain various types of flames used in Oxy-acetylene welding process
4 th	23/07/2024	1	2.5 Explain Arc welding process.

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	24/07/2024	1	2.6 Specify Arc welding electrodes
	26/07/2024	1	2.7 Define resistance welding and classify it
5 th	29/07/2024	1	2.8.1 Describe Butt Welding,
	30/07/2024	1	2.8.2 Spot welding And Seam Welding
	31/07/2024	1	2.8.3 Flash welding process
	02/08/2024	1	2.8.4 Projection Welding process
6 th	05/08/2024	1	2.9.1 Explain TIG Welding
	06/08/2024	1	2.9.2 MIG welding process
	07/08/2024	1	2.10 State different welding defects with Causes and remedies of welding defects
	09/08/2024	1	CLASS TEST-1
7 th	12/08/2024	1	3.1 Define Casting and Classify the various Casting processes.
	13/08/2024	1	3.2 Explain the procedure of Sand mould casting.
	14/08/2024	1	3.3.1 Explain different types of moulding sands
	16/08/2024	1	3.3.2 composition and properties of different moulding sand
	20/08/2024	1	3.4.1 Classify different pattern
8 th	21/08/2024	1	3.4.2 State Various pattern allowances.
	23/08/2024	1	3.5 Classify core.
	27/08/2024	1	3.6.1 Describe construction and working of cupola furnace
	28/08/2024	1	3.6.2 Describe construction and working of Crucible Furnace.
	30/08/2024	1	3.7 Explain Die Casting Method.
9 th			
10 th	02/09/2024	1	3.8.1 Explain centrifugal casting such as true centrifugal casting
	03/09/2024	1	3.8.2 advantages, limitation and area of application of centrifugal casting
	04/09/2024	1	3.8.3 Centrifuging process
	06/09/2024	1	3.8.4 advantages, limitation and area of application Of Centrifuging process
	09/09/2024	1	3.9 Explain various casting defects with their causes and remedies.
11 th			

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	10/09/2024	1	INTERNAL ASSESSMENT
	11/09/2024	1	INTERNAL ASSESSMENT
	13/09/2024	1	4.1 Define powder metallurgy process.
12 th	17/09/2024	1	4.2 State advantages of powder metallurgy technology technique
	18/09/2024	1	4.3 Describe the methods of producing components by powder metallurgy technique.
	20/09/2024	1	4.4 Explain sintering.
13 th	23/09/2024	1	4.5 Economics of powder metallurgy
	24/09/2024	1	4.6 Applications of Powder Metallurgy
	25/09/2024	1	5.1 Describe Press Works: blanking, piercing and trimming.
	27/09/2024	1	5.2 List various types of die and punch
14 th	01/10/2024	1	5.3.1 Explain simple Die
	04/10/2024	1	5.3.2 Compound Die
	14/10/2024	1	5.3.3 Progressive Dies
	15/10/2024	1	5.4 Describe the various advantages & disadvantages of above dies
15 th	18/10/2024	1	6.1 Define jigs and fixtures
16 th	21/10/2024	1	6.2 State advantages of using jigs and fixtures
	22/10/2024	1	6.3 State the principle of locations
	23/10/2024	1	6.4 Describe the methods of location with respect to 3-2-1 point location of rectangular jig
	25/10/2024	1	6.5.1 List various types of jig
	28/10/2024	1	6.5.2 List various types of fixtures
	29/10/2024	1	CLASS TEST-2

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17 TH	30/10/2024	1	REVISION
	01/11/2024	1	REVISION
18 TH	04/11/2024	1	REVISION
	05/11/2024	1	DOUBT CLEARING CLASS
	06/11/2024	1	DOUBT CLEARING CLASS
	08/11/2024	1	PREVIOUS YEAR QUESTION DISCUSSION

Dr. P. K. Sahoo