

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF MECHANICAL ENGINEERING



LESSON PLAN

SUBJECT: PRODUCTION TECHNOLOGY
FACULTY: MRS. SUNITA NAYAK

ACADEMIC SESSION: 2023-24(W)
SEMESTER: 3rd
SEC: B


21/07/23
H O D (MechEngg.)

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Discipline- Mechanical Engg	Semester :- 3 rd Sec-B	Name of the teaching faculty :- SUNITA NAYAK
Subject- Production Technology	No of periods Allotted per Week- 04 (Monday, Tuesday, Wednesday, Thursday)	Semester from Date - 01/08/2023 To Date - 30/11/2023 No. of Weeks: 17
Week	Class	Theory Topics
1st	01/08/2023	Discussion of syllabus and Introduction to Production technology
	02/08/2023	1.0 Metal forming processes 1.1 Extrusion: Definition & Classification
	03/08/2023	1.2 Explain Direct Extrusion Process.
2nd	07/08/2023	1.2 Explain Indirect Extrusion Process
	08/08/2023	1.2 Explain Impact extrusion process
	09/08/2023	1.3 Define rolling. Classify it.
	10/09/2023	1.4 Differentiate between cold rolling and hot rolling process.
3rd	14/08/2023	1.5 List the different types of rolling mills used in Rolling process
	16/08/2023	2. Welding 2.1 Define welding & classify various welding processes.
	17/08/2023	2.2 Explain fluxes used in welding.
4th	21/08/2023	2.3 Explain Oxy-acetylene welding process

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LESSON PLAN

	22/08/2023	2.4 Explain various types of flames used in oxy-acetylene welding process
	23/08/2023	2.5 Explain Arc welding process
	24/08/2023	2.6 Specify Arc welding electrodes
5th	28/08/2023	2.7 Define resistance welding and classify it
	29/08/2023	2.8. Describe Butt Welding,
	31/08/2023	2.8 Describe Spot welding
6th	04/09/2023	2.8 Describe Flash Welding
	05/09/2023	2.8 Describe Projection Welding
	07/09/2023	2.8 Describe Seam welding
7th	11/09/2023	2.9 Explain TIG Welding
	12/09/2023	2.9. Explain MIG welding process
	13/09/2023	2.10 State different welding defects with Causes and remedies of welding defects
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8th	18/09/2023	Class test-1
	21/09/2023	3.Casting 3.1 Define Casting and Classify the various Casting processes.

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9 th	25/09/2023	3.2 Explain the procedure of Sand mould casting
	26/09/2023	3.3 Explain different types of moulding sands, composition and properties of different moulding sand
	27/09/2023	3.3 Explain different types of moulding sands, composition and properties of different moulding sand
	28/09/2023	3.4 Classify different pattern
10 th	03/10/2023	3.4 Classify different pattern
	04/10/2023	3.4 State Various pattern allowances
	05/10/2023	3.5 Classify core
11 th	09/10/2023	3.6 Describe construction and working of cupola furnace
	10/10/2023	3.6 Describe construction and working of Crucible Furnace
	11/10/2023	Internal examination
	12/10/2023	Internal examination
12 th	16/10/2023	3.7 Explain Die Casting Method
	17/10/2023	3.8 Explain centrifugal casting such as true centrifugal casting, advantages, limitation and area of application
	18/10/2023	3.8. Explain Centrifuging casting with advantages, limitation and area of application
	19/10/2023	3.9 Explain various casting defects with their causes and remedies.
13 th	30/10/2023	3.9 Explain various casting defects with their causes and remedies.4.3 Describe the methods of producing components by powder metallurgy technique.

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LESSON PLAN

	31/10/2023	Chapter-4 Powder Metallurgy 4.1 Define powder metallurgy process. 4.2 State advantages of powder metallurgy technology technique
	01/11/2023	4.3 Describe the methods of producing components by powder metallurgy technique.
	02/11/2023	4.4 Explain sintering.
14 th	06/11/2023	4.5 Economics of powder metallurgy
	07/11/2023	Chapter-5 Press Work 5.1 Describe Press Works: blanking, piercing and trimming.
	08/11/2023	5.2 List various types of die and punch
	09/11/2023	5.3 Explain simple Die, Compound Die
15 th	13/11/2023	5.3. Explain Progressive Dies
	14/11/2023	5.4 Describe the various advantages & disadvantages of above dies
	15/11/2023	Chapter-6 Jigs and fixtures 6.1 Define jigs and fixtures 6.2 State advantages of using jigs and fixtures
	16/11/2023	6.3 State the principle of locations
16 th	20/11/2023	6.4 Describe the methods of location with respect to 3-2-1 point location of rectangular jig
	21/11/2023	6.5 List various types of jig and fixture
	22/11/2023	Class test
	23/11/2023	Revision and doubt clearing
17 th	28/11/2023	Revision and doubt clearing
	29/11/2023	Previous year question discussion
	30/11/2023	Previous year question discussion