

**LESSON PLAN.**

3RD SEMESTER W.E.F-19/9/2022 Total Period :- 60

SUBJECT-PRODUCTION TECHNOLOGY (Sub code-TH1) Theory periods: 4 P/WEAKLY

Teacher :- CHANDRASEKHAR DASH (PTGF, MECHANICAL ENGINEERING DEPT.)

SL NO	MON TH	We ek	Date	UNIT NO/P ERIOD ALLO TED	Topic to be covered as per Syllabus	Topic actually covered as per Syllabus	Short fall if any/syllabus	remarks
1	SEPT	4TH	19/09/2022	6	Unit 1: Extrusion: Definition & Classification	covered	Nil	
2			20-Sep-22		Explain direct, indirect and impact extrusion process.	covered	Nil	
3			20-Sep-22		Define rolling. Classify it	covered	Nil	
4			22-Sep-22		Differentiate between cold rolling and hot rolling process.	covered	Nil	
5		5TH	26-Sep-22		List the different types of rolling mills used in Rolling process.	covered	Nil	
6			27-Sep-22		List the different types of rolling mills used in Rolling process.	covered	Nil	
7			27-Sep-22	Unit 2: Define welding and classify various welding processes.	covered	Nil		
8			29-Sep-22	Explain fluxes used in welding.	covered	Nil		
9	OCT	3RD	10-Oct-22	16	Explain Oxy-acetylene welding process.	covered	Nil	
10			11-Oct-22		Explain Oxy-acetylene welding process.	covered	Nil	
11			11-Oct-22		Explain various types of flames used in Oxy-acetylene welding process	covered	Nil	
12			13-Dec-22		Explain various types of flames used in Oxy-acetylene welding process	covered	Nil	
13		4TH	17-Oct-22		Explain Arc welding process.	covered	Nil	
14			18-Oct-22		Explain Arc welding process.	covered	Nil	
15			18-Oct-22		Specify arc welding electrodes	covered	Nil	
16			20-Oct-22		Define resistance welding and classify it	covered	Nil	
17		5TH	24-Oct-22		Define resistance welding and classify it	covered	Nil	
18			25-Oct-22		Describe various resistance welding processes such as butt welding, spot welding	covered	Nil	
19					flash welding, projection welding and Seam Welding	covered	Nil	
20			25-Oct-22		Explain TIG and MIG welding process	covered	Nil	
21			27-Oct-22		State different welding defects with causes and remedies.	covered	Nil	
22			31-Oct-22		State different welding defects with causes and remedies.	covered	Nil	
23	NOV	1ST	1-Nov-22	UNIT-3 Define Casting and Classify the various Casting processes	Classify the various Casting processes	covered	Nil	
24			1-Nov-22		Explain different types of molding sands with their composition and properties	covered	Nil	
25			3-Nov-22		Explain different types of molding sands with their composition and properties	covered	Nil	
26		2ND	7-Nov-22	Classify different pattern and state various pattern allowances	covered	Nil		
27			8-Nov-22	Classify different pattern and state various pattern allowances	covered	Nil		
28			8-Nov-22	Classify different pattern and state various pattern allowances	covered	Nil		
29			10-Nov-22	Classify core.	covered	Nil		
30			14-Nov-22	Classify core.	covered	Nil		

31	NOV	3RD	15-Nov-22	16	Describe construction and working of cupola and crucible furnace.	covered	Nill	
32			15-Nov-22		Describe construction and working of cupola and crucible furnace.	covered	Nill	
33			17-Nov-22		Explain die casting method	covered	Nill	
34		4TH	21-Nov-22		Explain die casting method	covered	Nill	
35			22-Nov-22		Explain centrifugal casting such as true centrifugal casting,	covered	Nill	
36			22-Nov-22		centrifuging with advantages, limitation and area of application	covered	Nill	
37			24-Nov-22		Explain various casting defects with their causes and remedies.	covered	Nill	
38		5TH	28-Nov-22		Explain various casting defects with their causes and remedies.	covered	Nill	
39			29-Nov-22		causes and remedies of casting defects			
40			29-Nov-22		UNIT-4 Define powder metallurgy process.			
41	DEC	2ND	5-Dec-22	7	State advantages of powder metallurgy technology technique			
42			6-Dec-22		Describe the methods of producing components by powder			
43			6-Dec-22		powder metallurgy technique.			
44			8-Dec-22		Explain sintering.			
45		3RD	12-Dec-22		Economics of powder metallurgy.			
46			13-Dec-22		UNIT-5 Describe Press Works: blanking, piercing and trimming			
47			13-Dec-22		List various types of die and punch			
48			15-Dec-22		Explain simple, Compound & Progressive dies			
49		4TH	19-Dec-22		Explain simple, Compound & Progressive dies			
50			20-Dec-22		Describe the various advantages & disadvantages of above dies			
51			20-Dec-22		Describe the various advantages & disadvantages of above dies			
52			22-Dec-22		UNIT-6 Define jigs and fixture			
53		5TH	26-Dec-22		State advantages of using jigs and fixtures			
54			27-Dec-22		State the principle of locations			
55			27-Dec-22		Describe the methods of location with respect to 3-2-1 point location of rectangular jig			
56			29-Dec-22		Describe the methods of location with respect to 3-2-1 point location of rectangular jig			
57	JAN	1ST	02-01-2023	7	List various types of jig and fixtures.			
58			3-Jan-23		List various types of jig and fixtures.			
			3-Jan-23		State the principle of locations			
59			5-Jan-23		State the principle of locations			
		9-Jan-23	State advantages of using jigs and fixtures					
		10-01-2023	State applications of using jigs and fixtures					
		10-Jan-23	Revesion					
60		12-Jan-23	Revesion					

Chandrasekhar Dash