

LESSON PLAN

Subject Name – Basic Manufacturing Process	Branch – Production Engineering
Subject Code – BPE03003	Semester – 3 rd

Sl no.	Module	Topic(s)	Period/Hours
1.	I	Manufacturing Processes	1
2.	I	Sand Casting	2-3
3.	I	Molding Procedure	4-5
4.	I	Tutorial	6
5.	I	Testing of molding sand	7
6.	I	Melting and founding of cast iron	8-9
7.	I	Degasification	10
8.	I	Tutorial	11
9.	II	Design of casting and risering	12-15
10.	II	Pouring and feeding of casting	16-17
11.	II	Casting defects and inspection	18-20
12.	II	Special casting, Permanent mould casting, Die casting, Centrifugal casting	21-25
13.	II	Tutorial	26
14.	III	Fusion welding processes, Oxy-fuel gas welding, arc welding processes-I, Submerged arc welding	27-28
15.	III	Submerged arc welding, Gas Metal Arc Welding, arc welding processes-II, Gas Tungsten arc welding, Defects in welding	28-29
16.	III	Tutorial	30
17.	IV	Submerged arc welding	31
18.	IV	Gas Metal Arc Welding, arc welding processes-II, Gas Tungsten arc welding, Defects in welding	32-34
19.	IV	Tutorial	35
20.	V	Metal Forming Process	36
21.	V	Extrusion	37
22.	V	Rolling	38
23.	V	Sheet Metal Working, Deep drawing process	39
24.	V	Tutorial	40