

Department of Mechanical Engineering		
Course Code :- MEC 402		
Casting, Forming and Welding		
Lecture No.	Topic to be Covered	CO covered
1	Foundry: foundry materials- moulding and core sand- binders	CO1
2	additives; sand preparation- sand control tests	CO1
3	Pattern	CO1
4	Types of Pattern	CO1
5	Pattern Making	CO1
6	Mould and core making	CO1
7	Mould and core making	CO1
8	Expendable and non-expendable moulds	CO1
9	mould assembly; solidification of pure metals and alloys, grain growth	CO1
10	Casting processes- sand casting	CO1
11	Shell moulding	CO1
12	Investment casting	CO1
13	Slush casting, gravity and pressure die casting	CO1
14	Centrifugal casting; Continuous casting	CO1
15	Casting design	CO1
16	Gateway system design	CO1
17	Riser design	CO1
18	Casting defects	CO1
19	Inspection, testing	CO1
20	Testing- destructive and non-destructive	CO1