

COURSE OUTLINE

This is an introductory level course in Manufacturing Process Technology. Part I is mostly meant for Undergraduate engineers. At the heart of any manufacturing system is a set of processes which change the size, shape and form of raw materials into the desirable thus giving an industrial nation the power of growing. This course is an introductory course for engineering professionals who would like to take up careers in manufacturing particularly at the process level and also for professionals who are already in manufacturing careers and would like to see the technological changes that the manufacturing processes have witnessed in the last about 5 decades.

This is an introductory level course in Manufacturing Systems Technology and management(part-II). For most enterprises, the long term goal is to stay in business, grow and make profits. This is particularly true for manufacturing enterprises, which must understand the dynamic changes that are taking place in business environment and are flexible enough to change at every level. This course is an introductory course for engineering professionals who would like to take up careers in manufacturing and also for professionals who are already in manufacturing careers and would like to see the technological changes that manufacturing paradigm has witnessed in the last 3 decades.

COURSE DETAIL

Week. No	Topics
1 to 2	Manufacturing properties of materials.
3 to 5	Casting processes-I and II.
6 to 7	Machining processes- I and II.
8	Joining processes.
9	Quality systems engineering.
10 to 11	Cost of quality and statistical quality control
12.	Robotic systems planning and designing