DESIGN PRACTICE

PROF. SHANTANU BHATTACHARYA
Department of Mechanical Engineering
IIT Kanpur

TYPE OF COURSE : Rerun | Core/Elective | UG/PG
COURSE DURATION : 8 weeks (29 Jul’19 - 20 Sep’19)
EXAM DATE : 29 Sep 2019

PRE-REQUISITES : No prerequisite
INDUSTRY SUPPORT : SMIL (Gurgaon), HAL Kanpur and Lucknow, Small & medium scale production industries

COURSE OUTLINE
The course is intended for beginners in post graduate studies in Design. It can also serve well for aspiring professionals in industry who will be willing to undertake careers in the field of design.

ABOUT INSTRUCTOR
Prof. Shantanu Bhattacharya currently holds Professor position in Department of Mechanical Engineering at Indian Institute of Technology Kanpur, India. He is also serving as Head of the Design programme at the same institute at present.

COURSE PLAN

Week 1  : Introduction and stages of engineering designs of products
Week 2  : Concurrent engineering in today's competitive business environment
Week 3  : Stanford model of design thinking
Week 4  : Product design specifications and constraints
Week 5  : Creating forms and their geometric transformation models
Week 6  : Material selection processes for designers
Week 7  : Introduction to electronics
Week 8  : Axiomatic designs