ENGINEERING GRAPHICS AND DESIGN

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TYPE OF COURSE : New | Core | UG
COURSE DURATION : 12 Weeks (26-Jul' 21 - 15-Oct' 21)
EXAM DATE : 23 Oct 2021

INTENDED AUDIENCE : All undergraduate students and other students interested in graphics design and visualization.
INDUSTRIES APPLICABLE TO : All companies across all disciplines work with drawings, hence this course is relevant to all industries of all sizes.

COURSE OUTLINE :
All engineering activities (design/ manufacturing/ operation/ servicing) for any product from any discipline involve a team of people who communicate graphically. Hence, every engineer must have exposure and some competence in presenting ideas as pictures, and be able to unambiguously interpret drawing from others. This course will help develop basic visualization competency as well as ability to representing ideas on both paper and computer.

ABOUT INSTRUCTOR :
Dr. Naresh V Datla is an Associate Professor with the Department of Mechanical Engineering at IIT Delhi.
Professor Sunil R. Kale has been with the Department of Mechanical Engineering at IIT Delhi.

COURSE PLAN :
Week 1: Introduction
Week 2: Graphical Representation
Week 3: Projection Basics
Week 4: Orthographics Projections
Week 5: Auxilary And Sectional Projections
Week 6: Isometric Projections
Week 7: Working Drawings
Week 8: Introduction To CAD
Week 9: Part Modelling 1
Week 10: Part Modelling 2
Week 11: Assembly
Week 12: Design Project