



Engineering Staff College of India

(An ISO 9001:2015 Certified, AICTE & CEA Recognized Institution)

Autonomous Organ of The Institution of Engineers (India)

Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. Telangana, India



Management and Technology Division

Online Continuing Professional Development Programme on

Engineering Design using Solid Works

18 – 20 November 2020

(3 HOURS PER DAY)



Powered

INTRODUCTION

Design skill is at the core of mechanical engineer and is essential to any mechanical engineer. However, 'DESIGN' has a broader meaning that need to be clarified.

- Design, to a mechanical Engineer typically includes all the following:
- Research
- Design requirements
- Feasibility
- Conceptualization
- Preliminary design
- Detailed design
- Design for manufacturability
- Production planning

While all the above aspects involve a certain amount of skill and creativity these need a systematic approach, which depends on sound understanding of engineering principles. On the other hand, the development of a good concept & design additionally require a certain amount of ingenuity, which not everyone possesses and is not something that can be easily acquired.

An understanding of the physics behind design plays an all important role in the carrier of the designer. The course aims to enable such capabilities in the Engineers.

OBJECTIVES

The main objectives of the programme are:

- ✓ To generate awareness on SOLIDWORKS and significance of Design fundamentals
- ✓ To develop and sharpen Technical & Design Aptitude of the participants
- ✓ To enable the participants understand Design for Manufacturing
- ✓ To discuss the various issues that the participants face every day in Design and capacitate them with Error Correction and Problem Solving skill

COURSE COVERAGE

- Engineering Drawing
- Basics of 2D Drafting and Overview
- Solid Works Basics and User Interface
- Introduction to Sketching
- Basic Part Modelling
- Symmetry & Draft
- Patterning
- Revolved Features
- Shelling & Ribs
- Editing Repairs and Editing Design Changes
- Configurations
- Using Drawings
- Bottom-Up Assembly, Modelling
- Using Assemblies

METHODOLOGY

Methodology of the programme includes Digital Learning through LMS Platform, Online Video Interactive sessions with Cloud based Hand-on Practical, Lecture / Discussion with audio visual aid, bench marked video shows, chalk & talk sessions, Online case studies, debates, sharing of experiences etc. All the sessions will be interactive demanding active participation from all the members.

TARGET PARTICIPANTS

Working Professionals / Technology Enthusiasts

OUTCOMES

- Participants will appreciate the Tool and understand its applications
- Open up Participants cognitive ability to create and innovate
- Up skill the participants know how of the Design basics and Tool
- Increase technical and problem solving skills

PROGRAMME DATES & TIMINGS

Dates: 18-20 November 2020 (3 Hours Per Day)

Timings: After Registration Participant can access **ESCI LMS platform** for digital Learning **Online Session**

COURSE DIRECTOR

The Head
Management & Technology Division
Engineering Staff College of India
Old Bombay Road, Gachibowli – 500032
Phone: 040 6630 4111 & 6630 4112 & 6630 4105
Email: mt@escihyd.org, mtmkt@escihyd.org

For Registration Please Contact:

Mr. Rakesh Singh

Business Development Manager

Land line 040-66304105

Mob: 07013551765

FACULTY/SPEAKER DETAILS

The faculty consists of experts from industry, research establishments and academia besides that from ESCI.

COURSE FEE

Rs. 3,000/- (Rupees Three Thousand only) per participant. GST @18% is to be paid extra and above the training fee as training. **PAN Card No. AAATT3439Q. GST No: 36AAATT3439Q1ZV, HS No.: 999293** (under commercial training or coaching services – clause 65(105) (ZC) of Finance act – 1994). Programme fee is to be paid in in favour of **“THE INSTITUTION OF ENGINEERS (INDIA) – ENGINEERING STAFF COLLEGE OF INDIA”** in the form of demand draft payable at Hyderabad. Alternatively, the payment may be made by Electronic Fund Transfer (EFT) to ESCI - **SB A/c No.0432104000039631 with The IDBI Bank Ltd., Gachibowli Branch, Plot No. 2-53/2, JNIBF, IIIT Junction, Gachibowli, Hyderabad-500032 by RTG's/ NIFT / IFSC Code No: IBKL0000432. ESCI PAN No. is AAATT3439Q.** While using EFT/ Draft method of payment, kindly forward a covering letter giving details on the names of the participants, Title and the programme schedule so that proper accounting can be done.

REGISTRATION

Online registration shall be available on ESCI web portal : www.esciupskill.org / www.escihyd.org

To register manually please send your nominations giving details of name, designation, contact address, email address, mobile no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to : **Course Director**

CERTIFICATION

A Certificate of participation will be awarded to each participant on conclusion of the programme.

Management & Technology Division, Engineering Staff College of India

Gachibowli, Hyderabad – Telangana 500 032

Phone: 040 – 66304100 (EPABX) Divn. number (Direct), 7013551765/ 9391198601 Fax: 040 – 66304105

Email: mt@escihyd.org, web portal: www.escihyd.org

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