



Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)

Old Bombay Road, Gachibowli, Hyderabad – 500 032.TS, India

Management and Technology Division

Continuing Professional Development Programme on **Product Design & Development using Solid Works**

21 – 25 October 2019



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

Centre for Promotion of Professional Excellence

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 class room Sessions with Lecture/discussion with audio visual aid, benched marked video shows, Chalk & Talk sessions, group discussions, case studies, debates, sharing of experiences, etc. All the sessions will be interactive demanding active participation from all the members. CMI will be the main method of instruction.

COURSE ADVISOR & RESOURCE PERSON:



Gp Capt (Retd) BS Phillora
BE (ETC), AE (L), MMS (DS),
MPhil, FIE, Certified Lead
Auditor ISO 9001:2015.Chief
A&P, Dean of Studies, Head
Management & Technology
Division, Head Design &
Prototyping Centre.



Mr. Surendra Kumar
Outstanding Scientist,
Former Director ARDE,
Pune (DRDO)
Former Director (I),
Board of Directors, HAL



Mr. Jagdish Lolugu
BE (Mech), M Tech
(CAD/CAM), MA (PA)
Faculty & Business Head
Design & Prototyping Cell –
Technology Demonstration
Centre

FACULTY:

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

TARGET PARTICIPANTS:

Working Professionals / Technology Enthusiasts

BENEFIT TO THE PARTICIPANTS:

- Awareness on the new technology
- Skill up gradation / Skill acquisition on the latest and high potential technology
- Certificate of Participation from ESCI
- Hands-on experience / Practical on the Tool

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 VENUE, DATES & TIMINGS

Venue: Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachibowli, Hyderabad. 500032. TS, India.

Dates

21 - 25 October 2019

Timings

On the first day Registration will commence at 0900 h. On all other days the programme timings will be from 09.45-17.15 Hrs with breaks in between for tea and lunch.

COURSE DIRECTOR

Gp. Capt. (Retd.) BS Phillora BE (ETC), AE (L), MMS (DS), M Phil, FIE
Dean of Studies ESCI &
Sr. Faculty, Management & Technology Division, ESCI

COURSE FEE

₹ **25,500/- (Residential Fee)** per participant. Fee includes, course material, course kit, twin-sharing/single AC accommodation as per availability, breakfast, lunch, dinner, tea / coffee and snacks during the actual days of training programme.

DISCOUNTS:

- ❖ **Non-Residential Fee:** 10% discount on course fee is allowed for non-residential participants.
- ❖ **Group Discount:** Additional 10% discount for three or more participants, if sponsored by the same organization.

(All discounts are applicable only if fee is received at ESCI before the commencement of the programme.)

Goods and Service Tax @ 18% is to be paid extra over and above the training fee. PAN Card No AAATT3439Q; **GST No. 36AAATT3439Q1ZV.**(Under commercial training or coaching services).

Programme fee is to be paid in favour of "IE (I)-Engineering Staff College of India" in the form of demand draft payable at Hyderabad at par cheques payable at any Bank Branches.

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 website.([URL:www.escihyd.Org](http://www.escihyd.Org))

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

Head, Management & Technology Division

Engineering Staff College of India

Old Bombay Road, Gachibowli, Hyderabad 500 032, TS, India

Phone: Direct 040 6630 4111, 6630 4112 & 6630 4105

Fax : 04066304103 & 914030995227

Email: mt@escihyd.org,

For Registration Please Contact:

Mr. LV Rao

Programme Manager,

Land line 040-66304105

CERTIFICATION

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

GENERAL INSTRUCTIONS:

- ESCI encourages participants to present case studies from their respective organizations.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in 1200 h) and one day after conclusion (Check-out 1200 h) of the programme duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation)
- Well-developed Information Centre and Internet facilities are available to the participants.
- **Nominating authorities are requested to kindly send the contact details of the participants while sending their nomination letter. This will help us in making necessary administrative arrangement for them.**