



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 CREO Parametric 19 - 21 October 2020 (3 HOURS PER DAY)



INTRODUCTION

Designing often necessitates considering the aesthetic, functional, economic and sociopolitical dimensions of both the design object and design process. It may involve considerable research, thought, modeling, interactive adjustment, and re-design. Meanwhile, diverse kinds of objects may be designed, including clothing, graphical user interfaces, products, skyscrapers, corporate identities, business processes, and even methods or processes of designing.

Thus "design" may be a substantive referring to a categorical abstraction of a created thing or things (the design of something), or a verb for the process of creation as is made clear by grammatical context.

The course on CREO introduces the user to get familiar on CREO, one of the world's leading parametric solid modeling packages. This course emphasizes on the solid modeling techniques that enhance the productivity and efficiency of the user. CREO is the solution that is capable of addressing the complete product development process which facilitates true collaborative engineering across the multi-disciplinary extended enterprise, including style and form design, mechanical design, equipment and systems engineering, digital mock-up, machining, analysis and simulation.

This course is structured in a pedagogical sequence, covering the Part, Assembly, Drafting, Wireframe & Surfaces and Generative Sheet metal Design workbenches of CREO. Every session provides with detailed explanation of the commands and tools in CREO. This approach allows the user to understand and use the tool in an efficient manner.

OBJECTIVES

The main objectives of the programme are:

- To generate awareness on CREO 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

The key areas to be deliberated in the programme are:

- ✓ **Introduction to Tool & Features of CREO Parameters**
- ✓ **Part Design**
 - Sketcher Interface
 - Creating 2D and 3D Geometry
 - Dimensioning
 - Working with constraints
- ✓ **Base Feature-Part Modelling**
- ✓ **Advanced Features- Part Modelling**
- ✓ **Assembly Design**
 - Top-down Assembly, Bottom-up Assembly
 - Entering Assembly Mode, Creating Exploded views
 - Creating offset line
- ✓ **Drawing Views & Drafting**
- ✓ **Detailing the drawing & Sheets & Formats**
- ✓ **Practical on Tool**

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.

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

TARGET PARTICIPANTS

Professionals from Governments, Private sector and Public Sector Undertakings (from Design, Prototyping, Development, Service & Maintenance Divisions), Scientists working in Research Laboratories and Students & Faculties of various colleges & Universities, Startups into New product development, Dockyard personnel and repair shop personnel will find the programme useful.

PROGRAMME DATES & TIMINGS

Dates: 19 - 21 October 2020 (3 Hours Per Day)

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

COURSE DIRECTOR

Mr. NVSS SAGAR

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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

Faculty consists of experts from industry, research establishments, academia and experts who are into emotional intelligence research work are involved, besides that from ESCI.

COURSE FEE

Rs. 5,000/- (Rupees Five Thousand Only) per participant (Inclusive of GST @ 18%)

Rs 3,000/- (Rupees Three Thousand Only) per participant for Students & Research Scholars. (Inclusive of GST @ 18%).

PAN Card No. AAATT3439Q. GST No: 36AAATT3439Q1ZV, HS No.: 999293 (under commercial training or coaching services – clause 65(105) (ZZC) 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.

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