BharatiyaVidyaBhavan's
Sardar Patel College of Engineering
(Government Aided Autonomous Institution under University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai 400058

Report on One Week National Level Faculty Development Program
On

Analysis of Engineering System Using Creo

From 01st August to 06th August 2022

Organized By

Sardar Patel College of Engineering, Andheri,Mumbai

In Collaboration With

SAE INDIA Western Section | Invensys CAD Solutions | IIIE-SPCE Student Chapter

Under IQAC, SPCE

Principal Coordinator-
Dr. Santosh B. Rane
Faculty and Former Dean Academics, SPCE

Report of One Week FDP Programme on

Analysis of Engineering System Using Creo

Speaker : Dr. Anil Pagar

Director, Invensys CAD Solutions

Topic : Analysis of Engineering System Using Creo

Date : 01st August to 06th August 2022

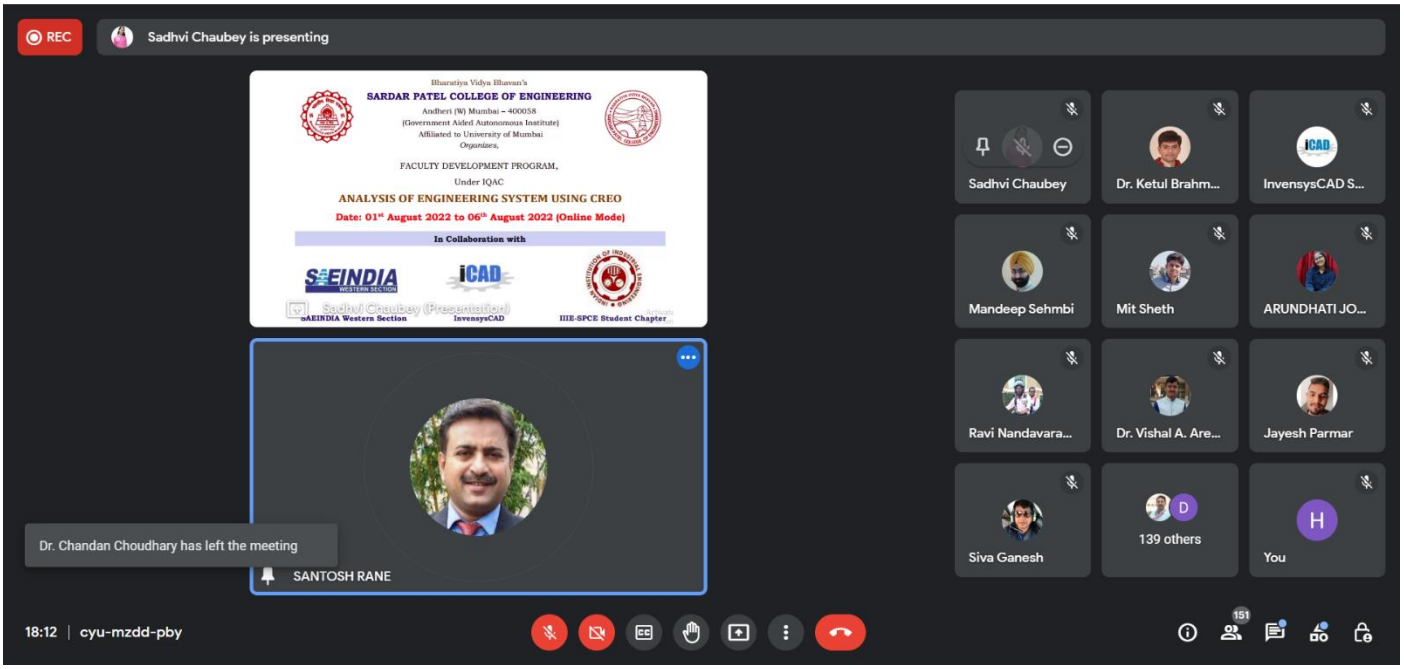
Time : 6:00 pm - 9:00 pm

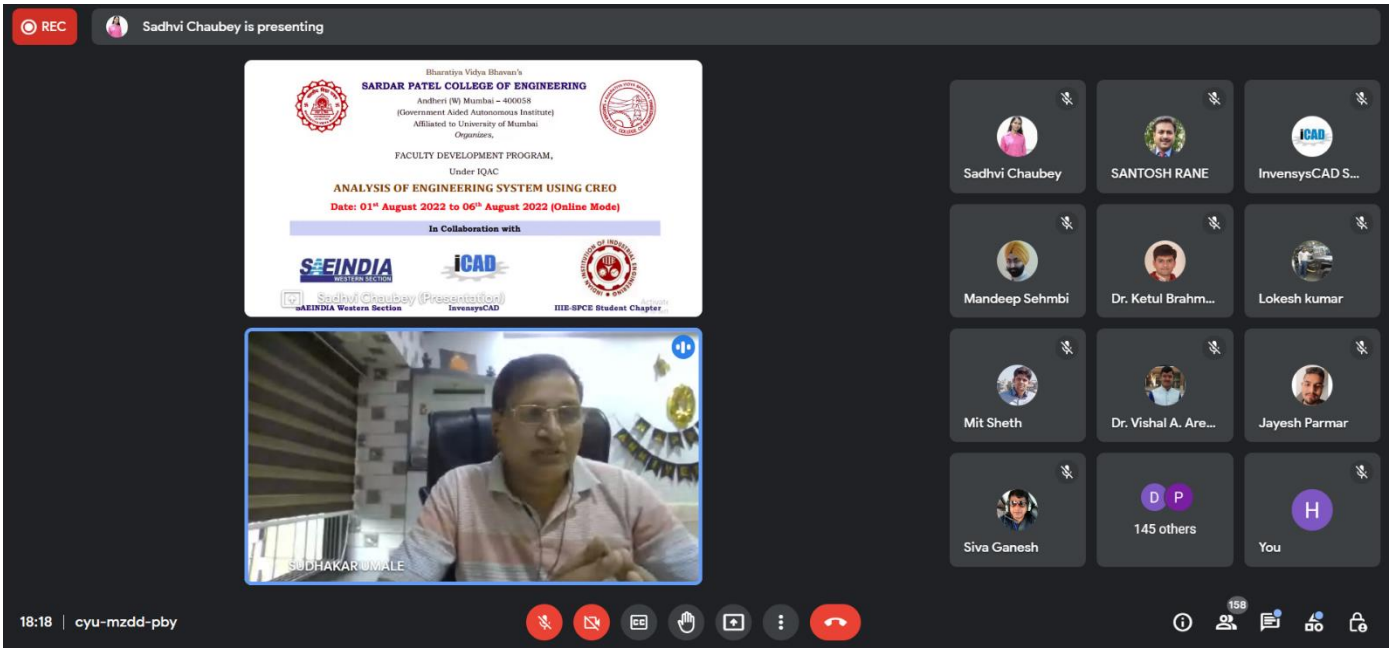
Bharatiya Vidya Bhavan's Sardar Patel College of Engineering in collaboration with SAEINDIA Western Section, InvensysCAD Solutions, and IIIE-SPCE Student Chapter organised a Faculty Devlopment Program on 'Analysis of Engineering System Using Creo'. The speaker for the FDP was Dr. Anil Pagar, Director, Invensys CAD Solutions.

Day-1

The session commenced with Sarasvati Vandana followed by the lightening of lamp ceremony. Then, Dr. Santosh Rane gave an overall idea of a FDP programme which included opportunities in the field objectives of the programme, expected outcomes, schedule of the programme, modules covered in the programme. Dr S.S. Umale Governing Council Member SAE INDIA WS congratulated Dr Santosh Rane for organising FDP. He also addressed the audience regarding skills and knowledge required in the industry and how such programmes are useful for the same. Further Miss Sadhvi Chaubey from final year B.Tech Mechanical, SPCE introduced the eminent speaker for the session, Dr. Anil Pagar.

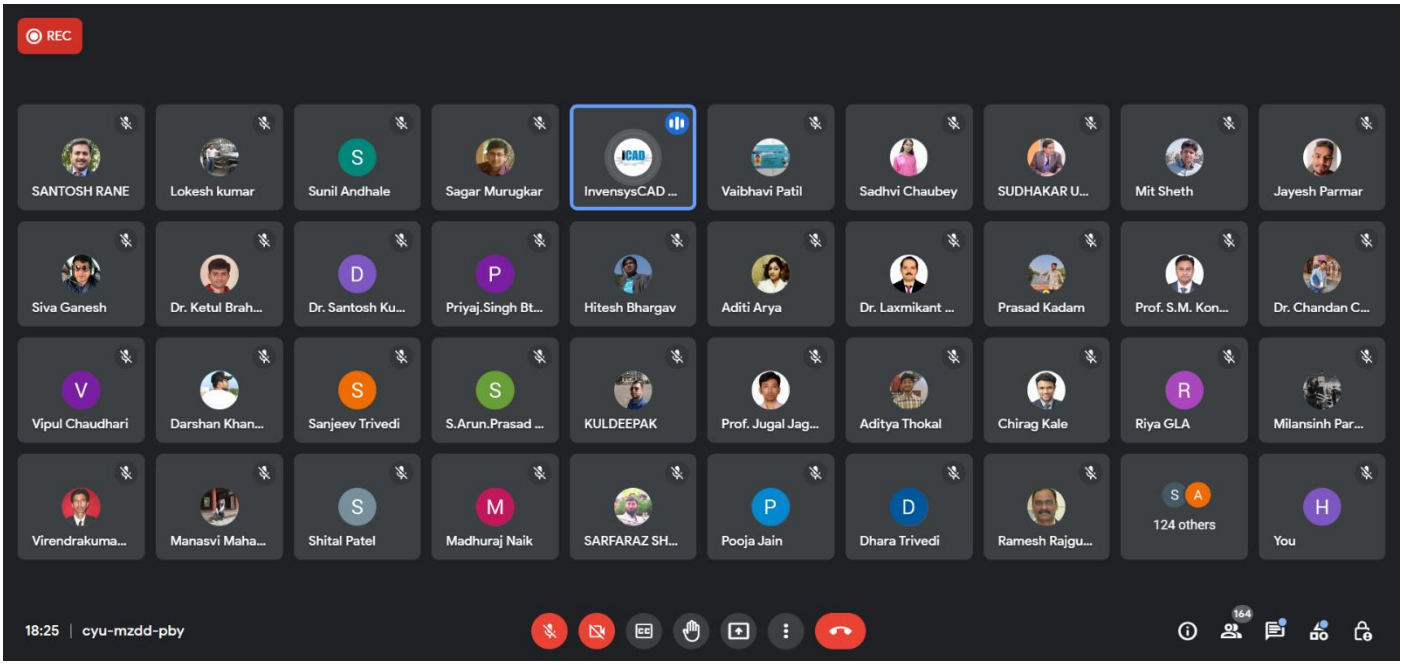
The program is attended by 166 Participants from different states across India. The interactive session helped participants to ask queries. The overall interface of software CREO was introduced by our expert speaker in highly professional manner. The queries asked by participants were resolved actively.

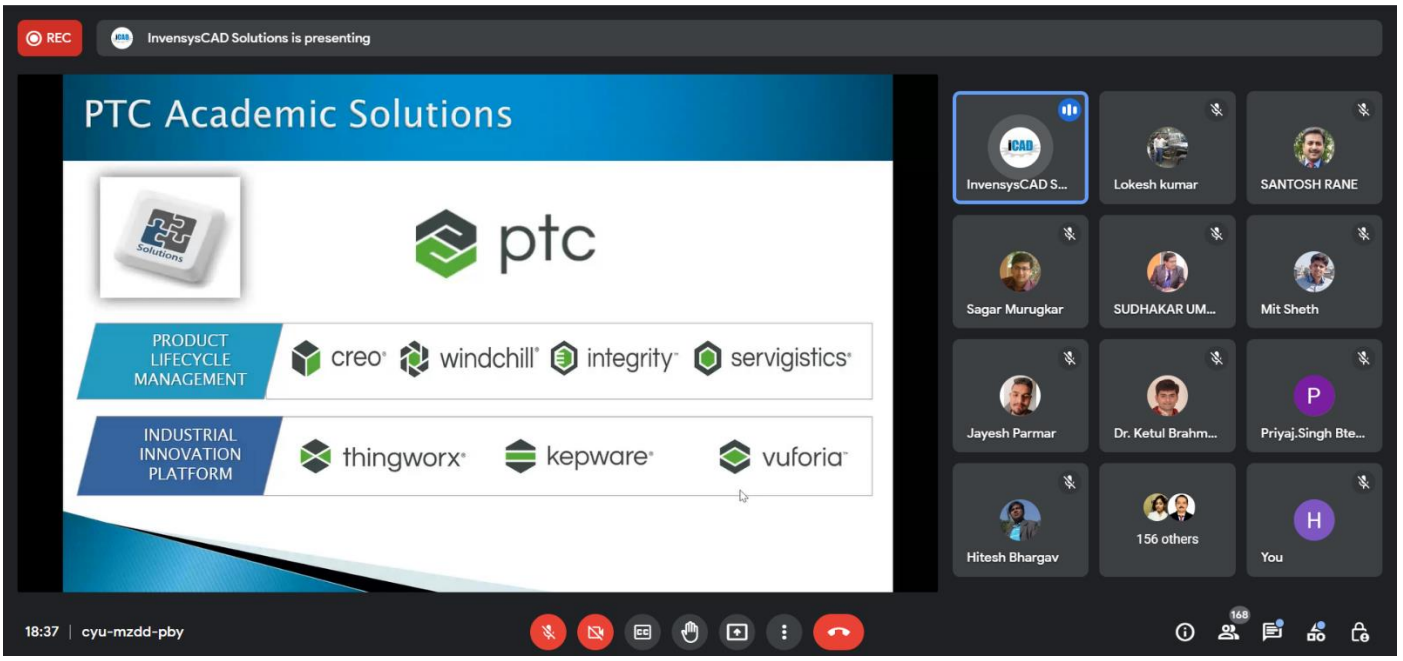




Day-2

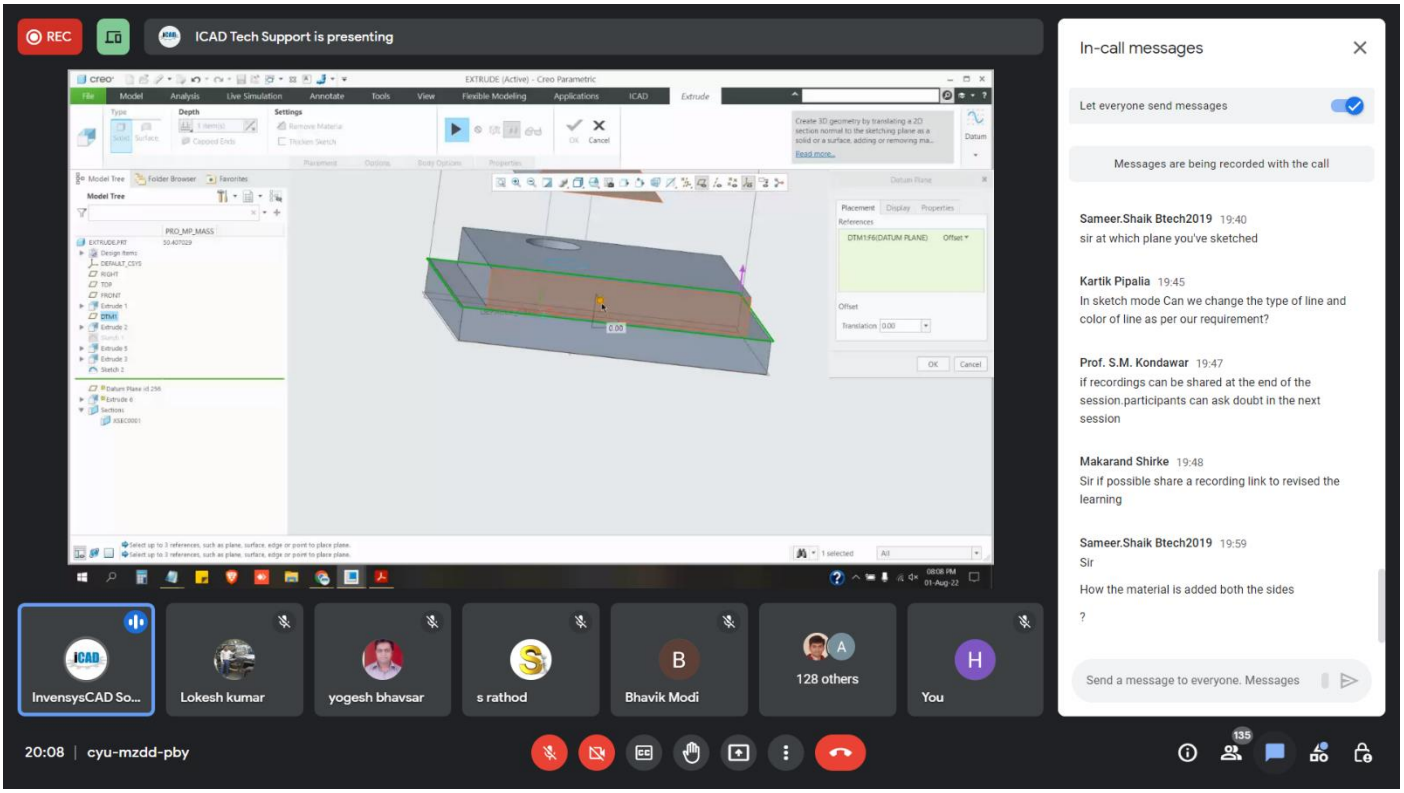
Second day of workshop started with detail information of PTC and explanation on Datums. From introduction of datums to in depth fundamentals of datums were explained by expert speaker Dr. Anil Pagar. One editing features of a model is coverd on the creo software. In the last session the part of creating feature patterns, uses of patterns, creating patterns, deleting patterns were discussed.

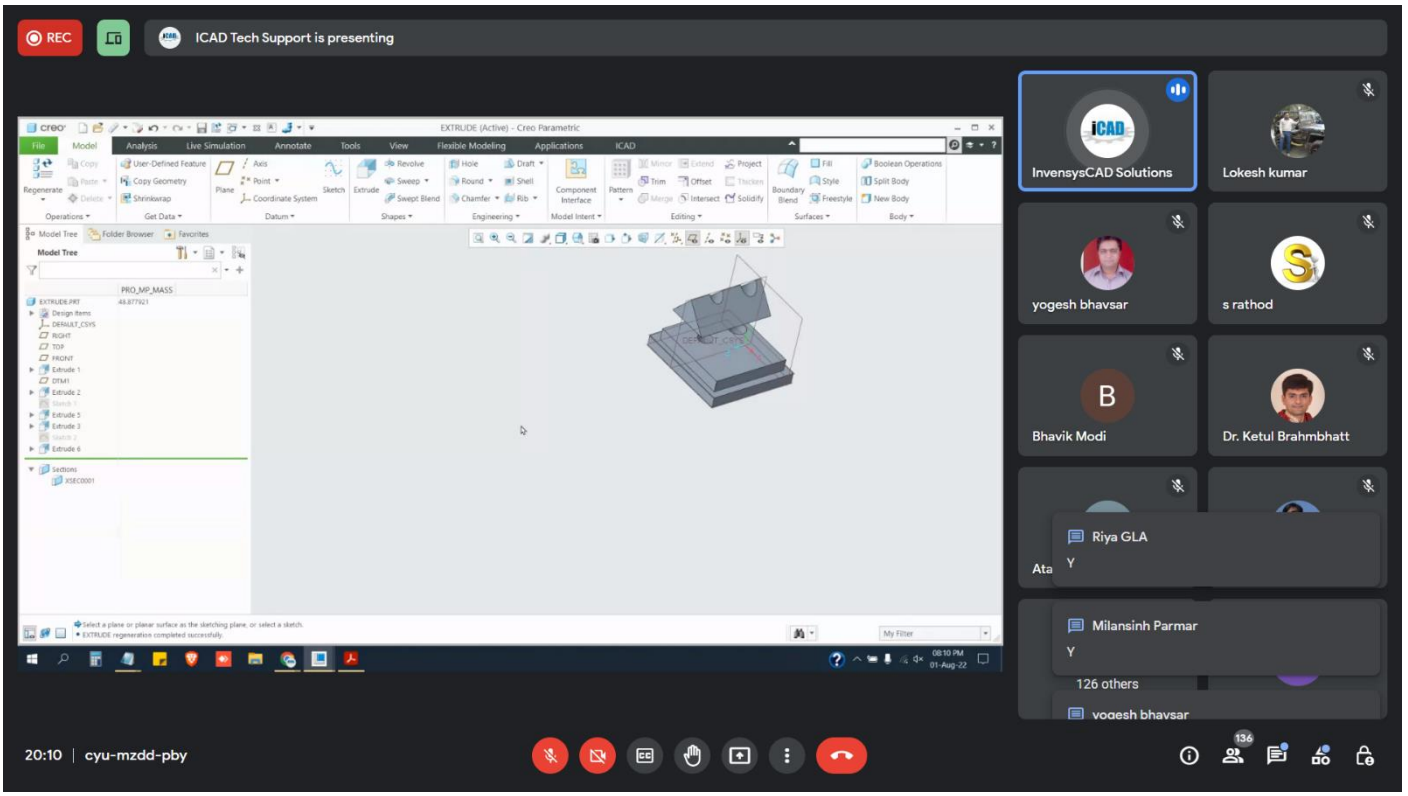




Day-3

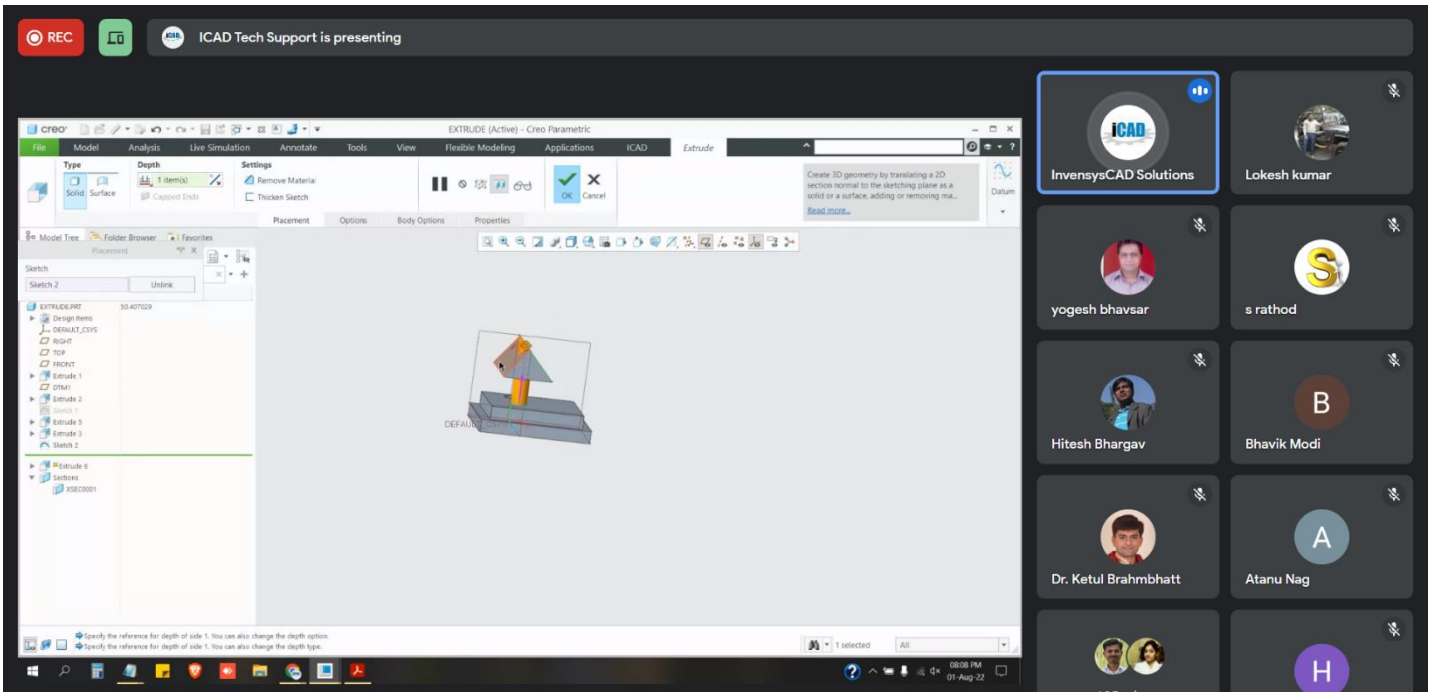
Program instructor gave introduction on concept of advanced modelling tools like sweep, blend, shell, blend. All the commands were experienced hands on by the participants on creo software. The participants asked different quires in comment sections which were also actively resolved. The second half of the third day was focused on geometrical dimensioning and tolerances.

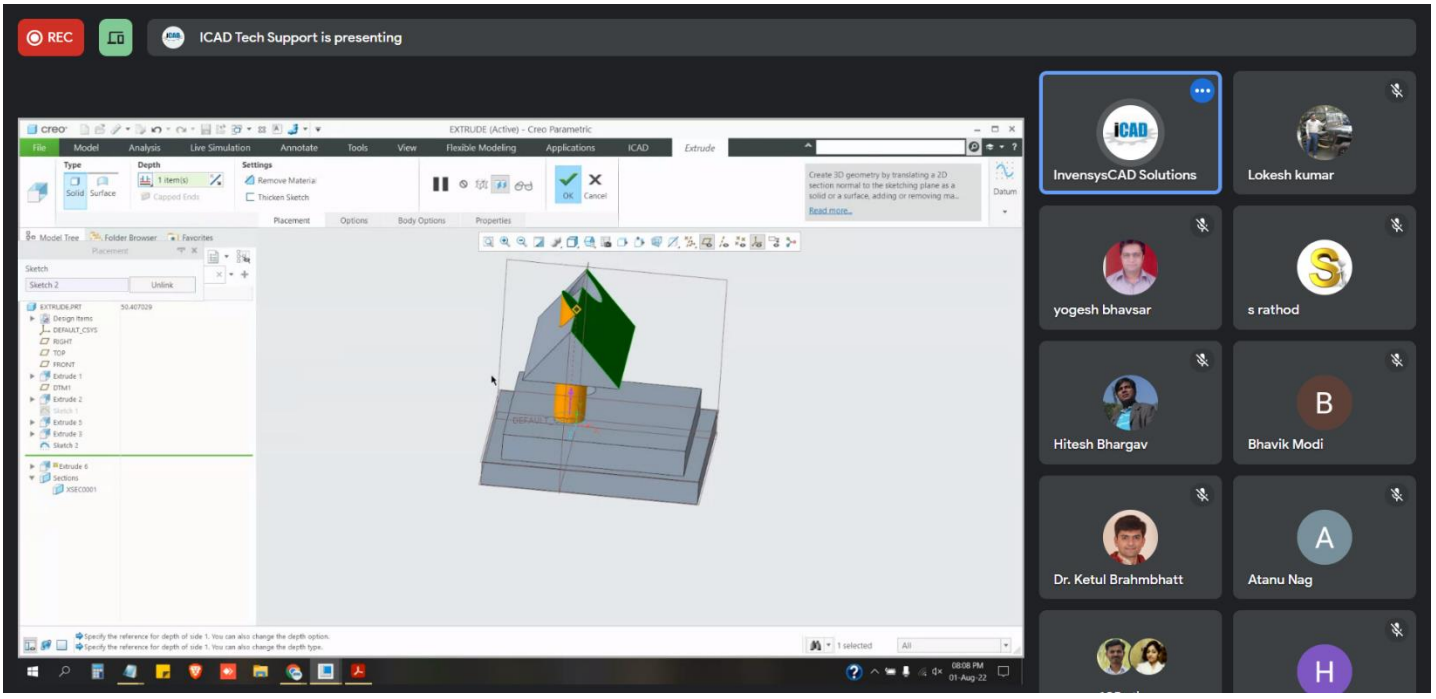




Day-4

Detailed explanation was given on assembly modelling. The major parts coven this session were important terms related to the assembly mode and top-down approach, bottom-up approach, and placement constraints. The second session of the day was majorly focused on two major industry demanded factors assembling components and the bill of materials.





Day-5

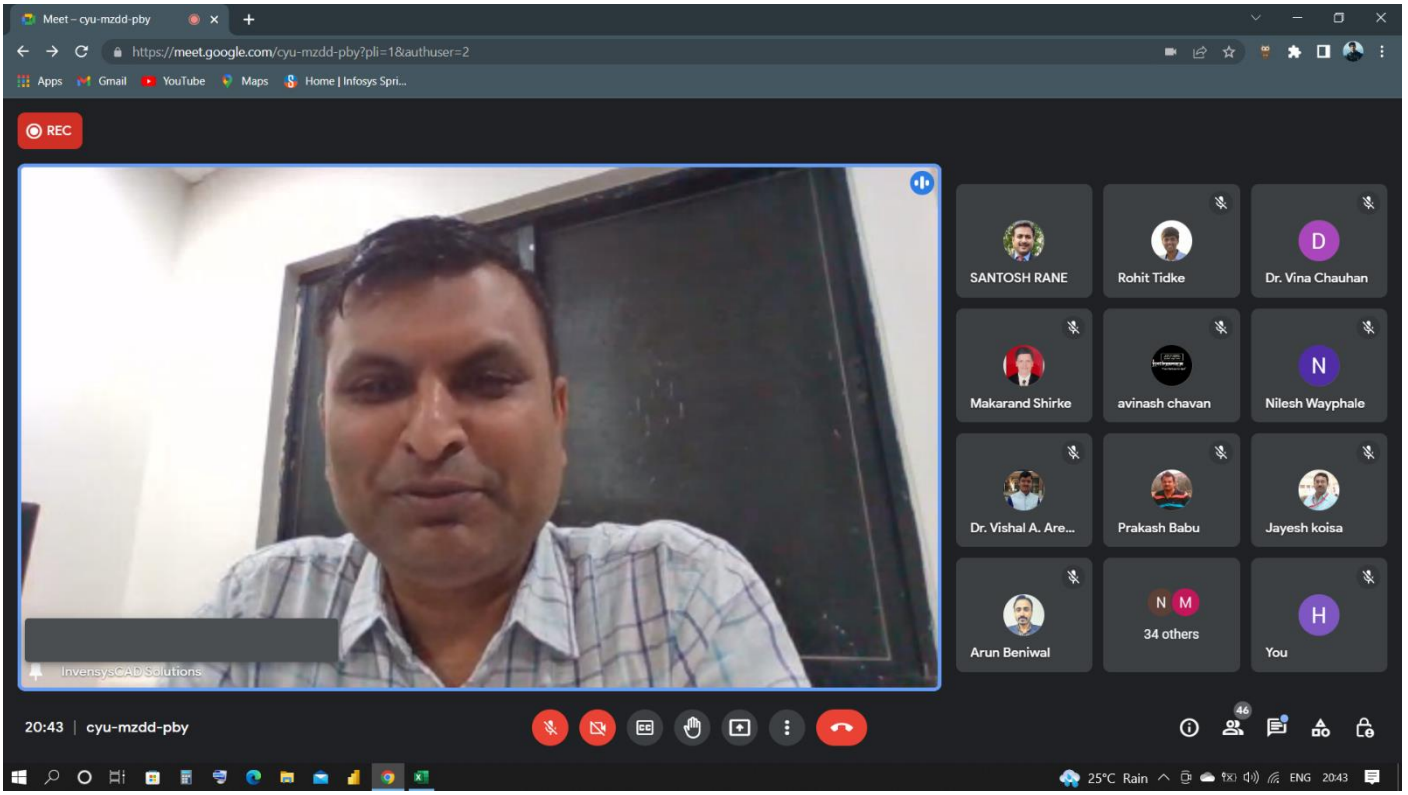
Fifth day of workshop begun with generating, editing, and modifying the drawing views. Mr. Anil Pagar expert speaker invited one guest speaker Mr. Suresh Perinjery, manager solutions consulting at PTC. He talked upon the emerging trends in creo. He also addressed topics like simulation driven design, generative design and design for additive manufacturing.

Day-6

On the final day of program Dr. Pagar Invited Mr. Prakash Babu as a guest speaker where he explained major areas of working with sheet metal components. He elaborated some major topics of simulations in real time using creo with real life examples. At the end Dr. Anil Pagar enlightened participants about Invensys CAD and their educational activities oriented for people related to academics.

Valedictory Function:

Dr. Santosh Rane, Principal Coordinator of the FDP and Former Dean Academics SPCE thanked the expert speaker for his valuable presence and sharing his expert knowledge, imparting a specialized training using creo and making one-a week workshop memorable one. Many Participants shared their feedback and appreciated efforts taken by SPCE Team under the leadership of Dr Santosh Rane.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InvensysCAD Solutions
SANTOSH RANE
Rohit Tidke
Dr. Vina Chauhan
Makarand Shirke
avinash chavan
Nilesh Wayphale
Dr. Vishal A. Are...
Prakash Babu
Jayesh koisa
Arun Beniwal
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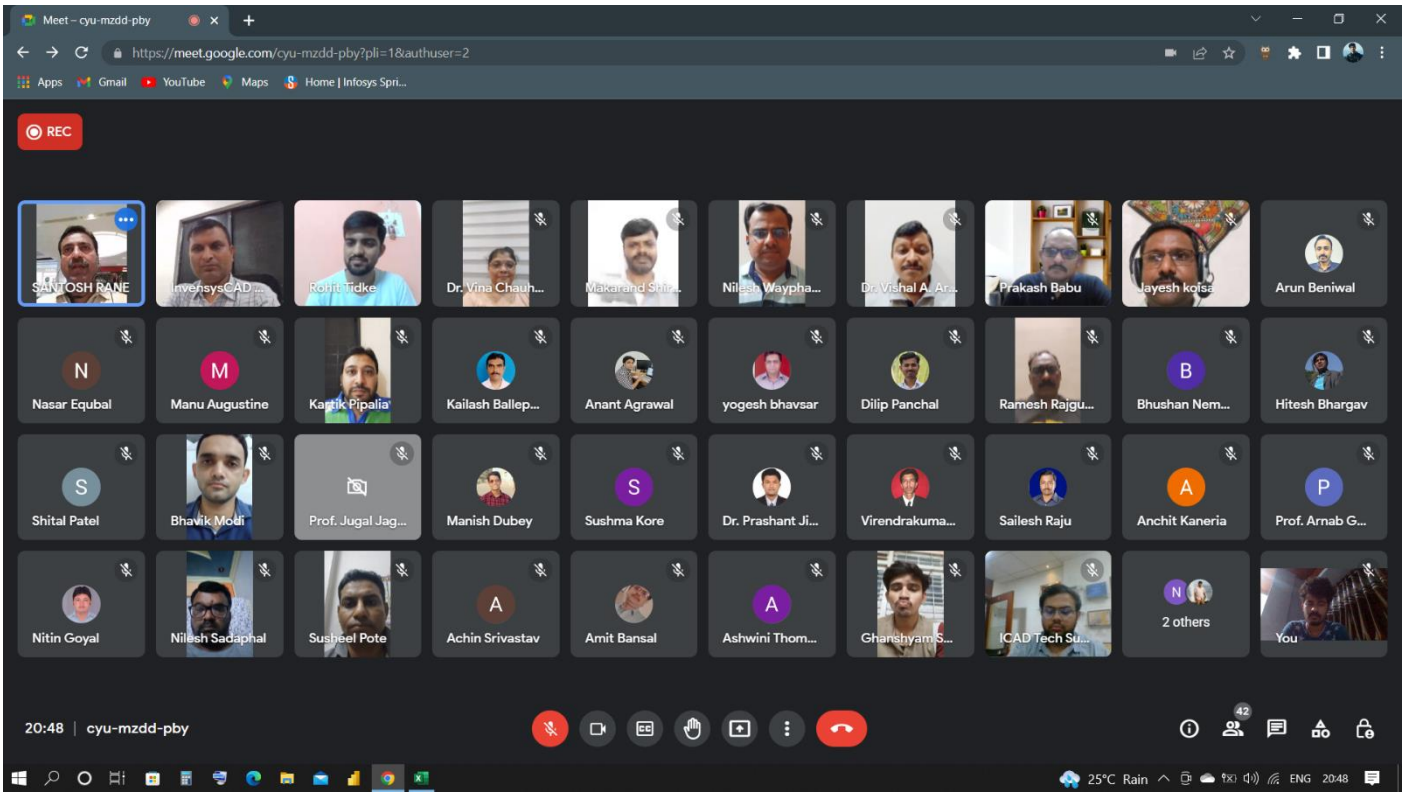
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SANTOSH RANE
Rohit Tidke
Dr. Vina Chauh...
Prakash Babu
Arun Beniwal
Nasar Equbal
Manu Augustine
Kailash Ballep...
Anant Agrawal
yogesh bhavsar
Dilip Panchal
Bhushan Nem...
Hitesh Bhargav
Shital Patel
Prof. Jugal Jag...
Manish Dubey
Sushma Kore
Dr. Prashant Ji...
Sailesh Raju
Anchit Kaneria
Prof. Arnab G...
Nitin Goyal
Nilesh Sadaphal
Susheel Pote
Achin Srivastav
Amit Bansal
Ashwini Thom...
2 others
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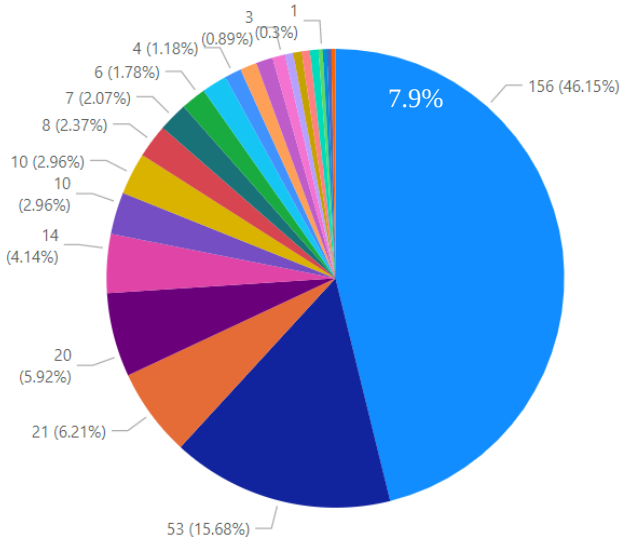
Participants Statistics:



State	Count of State
Maharashtra	156
Gujarat	53
Rajasthan	21
Utter Pradesh	20
Tamil Nadu	14
Andhra Pradesh	10
Punjab	10
Uttarakhand	8
Haryana	7
Kerala	6
Madhya Pradesh	6
Chandigarh	4
Delhi	4
Other	4
KARNATAKA	3
Goa	2
Jammu and Kashmir	2
Odisha	2
Pondicherry	2
bihar	1
DAMAN AND DIU	1
Telangana	1
West Bengal	1

Bharatiya Vidya Bhavan's

SARDAR PATEL COLLEGE OF ENGINEERING

Andheri (W) Mumbai – 400058

(Government Aided Autonomous Institute)

Affiliated to University of Mumbai

Organizes,

NATIONAL LEVEL FACULTY DEVELOPMENT PROGRAM,

ANALYSIS OF ENGINEERING SYSTEM USING CREO

Date: 1st Aug 2022 to 06th August 2022 (Online Mode)

In Collaboration with

SAEINDIA Western Section | **InvensysCAD** | **IIIE-SPCE Student Chapter**

Brief Introduction of Organizations
SPCE Government Aided Engineering College. The institute is Autonomous and permanently affiliated to University of Mumbai. It has received Grade "A" rating from Govt. of Maharashtra and has maintained a proud tradition of excellent academic records by securing high ranks, gold medals and other awards in the University Exams. Institute offers BTech, M. Tech and Ph.D. Programs in Civil, Mechanical and Electrical Engineering
SAEINDIA WS: SAEINDIA is India's leading resource for mobility technology. As an individual member-driven society of mobility practitioners, the ownership of SAEINDIA wrests with its members who are Individuals from the mobility community, which includes Engineers Executives from Industry, Government Officials, Academics and Students.
IIIE: The Indian Institution of Industrial Engineering, founded in 1957,is a non -profit organization for the profession of Industrial Engineering in India consisting of members specialized in the areas of Work Study, O & M., Production Planning & Control, Materials Management, Value Engineering, PERT/CPM, Operations Research, Financial Management, Statistical Quality Control etc. and other emerging disciplines.
InvensysCAD: InvensysCAD Solutions is a leading solutions provider in the CAD-CAM-CAE-PLM area for industry and educational areas. It provides PTC Creo, Ansys, Etab, E Plan, BricsCAD software and Training. It is also working on 3D Printing Technology with Technology Giants- STRATASYS- providing solutions for Mechanical, Medical and Dental Industries.

Patrons

Dr. Sesha Iyer
Chairman BoG
SPCE, Mumbai

Dr. M. M. Murudi
I/C Principal
SPCE, Mumbai

Mr. S. S Nibandhe
Chairman
SAE India WS

Mr. Ramesh Pasarija
Executive Director
SAE India WS

Mr. D. V. Bhagat
Chairman
IIIE

Expert Speaker

Mr. Anil Pagar
Director InvensysCAD Solutions

Principal Coordinator

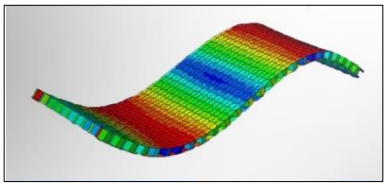
Dr. Santosh Rane
Faculty & Former Dean Academics,
SPCE, Mumbai

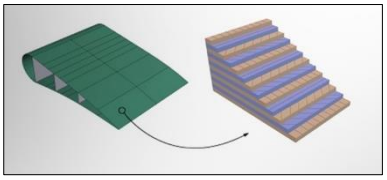
Organizing Committee

Dr. Kiran Bhole
Dean R&D, SPCE, Mumbai

Dr. Sanjay Bokade
Principal , RGIT, Mumbai and
Chairman, IIIE Mumbai Chapter

Dr S.S.Umale,
Former HOD- MED, SPCE Mumbai
Member of GC of SAEINDIA WS





Student Member

Mr. Rohit Tidke 8888 891 892
Mr. Hrushikesh Gargade 830 876 6295
Miss. Sadhvi Chube

Program Outline

01/08/2022	6.00 pm to 7.30 pm	Session 1	1. Introduction to Creo Parametric 2. Creating sketches in the sketch mode
	7.30 pm to 9.00 pm	Session 2	3. Creating base features • Understanding the Orientation of Datum Planes • Parent-Child Relationship • Implicit & Explicit Relationship
02/08/2022	6.00 pm to 7.30 pm	Session 3	4. Datums 5. Editing Features of a Model
	7.30 pm to 9.00 pm	Session 4	6. Creating Feature Patterns Uses of patterns Creating Patterns Deleting a Pattern
03/08/2022	6.00 pm to 7.30 pm	Session 5	7. Advanced modeling tools like Sweep, Blend, Shell, Blend
	7.30 pm to 9.00 pm	Session 6	8. Geometrical Dimensioning and tolerances
04/08/2022	6.00 pm to 7.30 pm	Session 7	9. Assembly Modeling • Important Terms Related to the Assembly Mode • Top-down Approach Bottom-up Approach Placement Constraints
	7.30 pm to 9.00 pm	Session 8	• Assembling Components • The Bill of Materials
05/08/2022	6.00 pm to 7.30 pm	Session 9	10. Generating, editing, and modifying the drawing views
	7.30 pm to 9.00 pm	Session 10	11. Dimensioning the drawing views
06/08/2022	6.00 pm to 7.30 pm	Session 11	12. Working with sheet metal components
	7.30 pm to 9.00 pm	Session 12	13. Conclusion of Session

- Who can attend ?: Industry Persons, Faculty members, Researchers, Practitioners, and students.
- The Program is free of cost to all participants.
- Registration Link: https://forms.gle/5VM85XeGcLCKzVh5A
- E-certificates will be provided to all participants after attending the FDP and submitting the feedback form.
- Participation and Registration rights are kept with organizing team.