



**(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)**

**S.P.G.Chidambara Nadar - C.Nagammal Campus**

**S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).**

**DEPARTMENT OF MECHCHANICAL ENGINEERING**

**Value Added Course**

**on**

**CREO 3D MODELLING SOFTWARE**

**CNC CODING WITH LIVE DEMO**

**Conducted: CIPET CSTS Madurai**

**Year / Sem Batch: II / III / 2020 – 24**

**Course duration :21.02.2022 to 26.02.2022**

**Course Duration: 36 Hrs**

18 February 2022



To

**The Secretary,**  
Kamaraj College of Engineering and Technology,  
Virudhunagar.

Through

**The Principal,**  
Kamaraj College of Engineering and Technology,  
Virudhunagar.

**The Dean Academic Courses,**  
Kamaraj College of Engineering and Technology,  
Virudhunagar.

**The Head of the Department,**  
Mechanical Engineering,  
Kamaraj College of Engineering and Technology,  
Virudhunagar.

**The Subject Expert,**  
Mechanical Engineering,  
Kamaraj College of Engineering and Technology,  
Virudhunagar.

**Proposal:**

**Title of the Program** : Value added course for "CREO 3D Modelling Software & CNC coding

**Participants** : II-year students

**Conducted by** : CIPET

**Software used** : CREO

**Mode** : In Plant – CIPET Madurai

**Need of the Program** :

- To improve the CNC Programme writing knowledge.

**Objective**

- Demonstrate the CREO 3D Modelling Software.
- Improve the knowledge and skill on CNC Programme.

**Course Outcome**

Students will able to

- **Create** cloud projects, manage, open and save models in CREO.
- **Create** and edit 2D Sketches and 3D models using CREO parametric tools to add constraints, dimensions, and control geometric relationships.
- **Apply** physical materials and assign appearances to 3D models.
- **Use** the CREO documentation environment to create technical drawings, parts lists, and other documentation for 3D models.
- **Create** the CNC Programme to operate the Machine.

**Program Outcomes**

- **PO1** Engineering knowledge
- **PO3** Design/development of solutions
- **PO5** Modern tool usage
- **PO12** Life-long learning

**Evaluation & Certification**

- CIPET conduct the **assessment** at end of the programme.
- CIPET Training Department will distribute the **certificate** to the students who secured minimum eligibility mark.
- Based this assessment mark, Student will award the **Grade**.

18 February 2022

### Schedule with Lesson plan

- **Module 1** – Introduction to CREO
- **Module 2** – 3D CREO Modelling
- **Module 3** – 3D CREO Assembly
- **Module 4** – CNC Coding
- **Module 5** – CNC Machine Operation
- **Module 6** – Wire cut EDM demonstration

Note: One Module per day


### Point of Contact


CIPET Madurai:

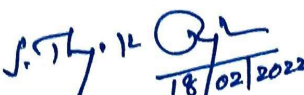
**Dr. K. Prakalathan**  
Director & Head  
&  
**Mr. E. Sivakumar**  
Senior Technical Officer  
CIPET - Madurai  
+91-8129497183  
eskumar80@gmail.com

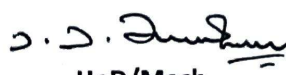
Coordinators:

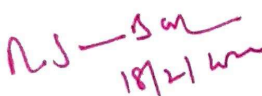
**Madhan N R, AP/Mech,**  
**Sakthivel Murugan R, AP/Mech,**  
Department of Mechanical Engineering,

  
18/02/2022  
**Coordinators**  
Name: **N.R. MADHAN**  
AP/MECH

  
**Lab Expert**  
Name: **R. SAKTHIVEL**  
AP/MECH

  
18/02/2022  
**UG Programme Coordinator**  
Name: **DR. S. THANGA KASI RAJAN**  
AP/MECH

  
**HoD/Mech**  
Name: **Dr. S. S. SARAVANAN**  
KANNIYAR

  
18/2/2022  
**Dean Academic**  
Name: **DR. R. SURESH**  
BAM

  
**Principal**  
Name:

  
**Secretary**  
Name:

**DEPARTMENT OF MECHCHANICAL ENGINEERING**

Value Added Course on CREO 3D MODELLING SOFTWARE CNC CODING WITH LIVE DEMO  
Conducted : CIPET CSTS Madurai Year / Sem : II / III  
Course duration :21.02.2022 to 26.02.2022 Batch : 2020 - 24  
Duration of the Course : 36 Hrs

**Approval of Programme Assessment Committee**

Board of Study Meeting: IV

Mode: online (MS-Teams)

Date & Timing: 19.03.2022 & 3.00PM

Page No: 17 of 18

**Dr. S. Thanga Kasi Rajan presented the list of value-added courses. The following discussions were made.**

S.No.	Course Title	Total hours	Credits
1.	Programming on Computer Numerical Control		2
2.	Advanced Pro-E		2
3.	Machine Learning		2
4.	Block chain		2
5	Heating, Ventilation and Air Conditioning		2

The members of BoS recommend and proceed the same.

Value Added Course - Instruction Meeting  
Sakthivel Murugan.R <sakthivelmuruganmech@kamarajengg.edu.in>  
on behalf of  
20UME-TEAM <20ume-msteam@kamarajengg.edu.in>  
Fri 2/18/2022 4:12 PM  
To:

- Sakthivel Murugan.R <sakthivelmuruganmech@kamarajengg.edu.in>;
- Madhan.N.R <madhanmech@kamarajengg.edu.in>;
- HODMECH <hodmech@kamarajengg.edu.in>;
- 20UME-TEAM <20ume-msteam@kamarajengg.edu.in>

Dear Students,

Value Added Course is planned for all II Year Students. It is a mandatory course and an opportunity to avail over and above credit in R2020.

**VAC Details:**

Course Theme: 3D Modelling in Creo & CNC Programming

Organized by : CIPET CSTS, Madurai

Mode: Offline

Duration : 1 Week

Date : 21.02.2022 to 26.02.2022

Time : 09.00 A.M to 04.00 P.M

Certificate Eligibility : 100% Attendance & Eligible mark in the assessment.

Regarding this, an online meeting is scheduled to discuss about the course details, travel, lunch etc.

Students are requested to be available in the venue on proper time. Your Kind cooperation is solicited.

Regards,  
Sakthivel Murugan R,  
Chairperson.

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## Microsoft Teams meeting

**Join on your computer or mobile app**

[Click here to join the meeting](#)

**Or call in (audio only)**

[+91 22 6241 2059,,,,,188835766#](#) India, Mumbai

Phone Conference ID: 188 835 766#

[Find a local number](#) | [Reset PIN](#)

**Department of Mechanical Engineering**  
**Three Member Committee - Minutes of Meeting for**  
**Value Added Course Selection**

Agenda		Value Added Course Selection Meeting
Date	:	09/02/2022
Time	:	03.00 PM
Platform	:	MS – Teams
Members Present	:	<p><b>Three Member Committee Members</b></p> <ol style="list-style-type: none"> <li>1. Dr. S.S. Saravana kumar, ASP &amp; HoD/Mech</li> <li>2. Dr. S. Senthil, Prof. &amp; Principal</li> <li>3. Er. N.R. Madhan, AP/Mech</li> </ol> <p><b>UG Coordinator</b></p> <ol style="list-style-type: none"> <li>4. Er. S. Thanga Kasi Rajan, AP/Mech</li> </ol> <p><b>Chairperson cum CAD Lab Expert</b></p> <ol style="list-style-type: none"> <li>5. Er. R. Sakthivel Murugan, AP/Mech</li> </ol> <p><b>Domain Experts</b></p> <ol style="list-style-type: none"> <li>6. Er. B. Prabhu, AP/Mech</li> <li>7. Mr.B. Balavairavan, AP/Mech</li> <li>8. Er. S. Thanga Kasi Rajan, AP/Mech</li> </ol> <p><b>Class representative (2020 – 2024 Batch)</b></p> <ol style="list-style-type: none"> <li>9. Mr. K. Jaideepkumar (20ume016), II<sup>nd</sup> Year/ Student</li> <li>10. Mr. V.V. Premkumar (20ume031), II<sup>nd</sup> Year/ Student</li> <li>11. Mr. M. Harisuriya (20ume030), II<sup>nd</sup> Year/ Student</li> </ol>
Minutes of the Meeting	:	<ol style="list-style-type: none"> <li>1. It is optional to complete a Value-Added Course for Regulation 2020. In this regard a three-member committee has been formed and a meeting is organized to select the course for registration. <ul style="list-style-type: none"> <li>• Meeting started by 9.30AM. Dr. S.S. Saravana Kumar, Associate Professor &amp; Head of the Department, welcome the gathering.</li> <li>• Er. R. Sakthivel Murugan, Assistant Professor &amp; Chairperson of 2020-2024 batch has proposed various courses offered by <ul style="list-style-type: none"> <li>○ Siemens Centre of Excellence in Manufacturing, National Institute of Technology, Tiruchirappalli and</li> <li>○ CIPET Madurai is offering CREO 3D Modelling software cum CNC coding</li> </ul> </li> </ul> </li> </ol>

- Subject expects are suggested to offer Basic Robotic Simulation.
- Dr. S. Thanga Kasi Rajan, Assistant Professor has advised to maintain SOP for value added course.
- Based on the suggestion given by the Subject Expects & 2020-2024 Batch Chairperson, 3 committee members for Value added course “CREO 3D Modelling software cum CNC coding” course offered by CIPET Madurai, agree to take this IV semester for 2020-2024 Batch students

**Justification for the Course selection:**

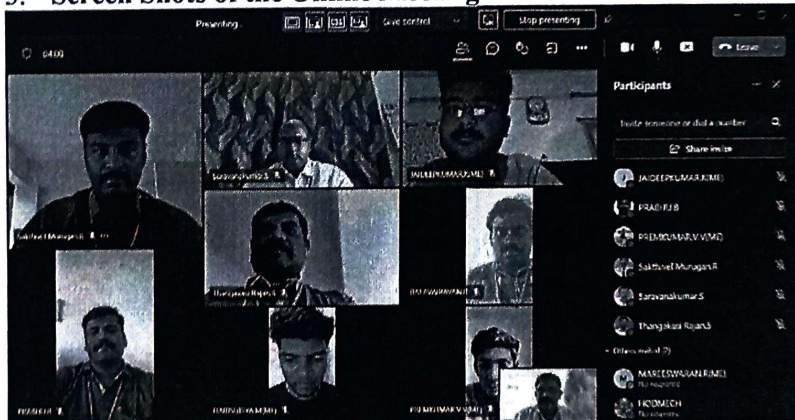
The justification for the course selection were as follows

- This Course will be useful for her project work
- It is a 40-hour course (2 Credit)
- This Course is useful to beat Industrial Needs

**2. Meeting Link sent to the Student and Faculty members**

[https://teams.microsoft.com/l/meetup-join/19%3ameeting\\_ZDBjYTYwODktZThiMi00ZjQzLTlmMDMtNDdINTVknGQyZDNj%40thread.v2/0?cont ext=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%22b1f7005f-61b9-4378-ba8e-f42d31877cb3%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDBjYTYwODktZThiMi00ZjQzLTlmMDMtNDdINTVknGQyZDNj%40thread.v2/0?cont ext=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%22b1f7005f-61b9-4378-ba8e-f42d31877cb3%22%7d)

**3. Screen Shots of the Online Meeting**



*S.S. Saravana Kumar*

**Three Member Committee Members**  
 Dr. S.S. Saravana kumar, ASP & HoD/Mech  
 Dr. S. Senthil, Prof. & Principal  
 Er. N.R. Madhan, AP/Mech

*S. Thanga Kasi Rajan*  
**UG Coordinator**  
 Dr. S. Thanga Kasi Rajan, AP/Mech

*R. Sakthivel Murugan*  
**Chairperson**  
 Er. R. Sakthivel Murugan, AP/Mech

*S. Thanga Kasi Rajan*  
**Domain Experts**  
 Dr. B. Prabhu, AP/Mech  
 Mr. B. Balavairavan, AP/Mech  
 Dr. S. Thanga Kasi Rajan, AP/Mech

*S.S. Saravana Kumar*  
**HoD/Mech**

*R.S. Sar*  
**Dean Academics**



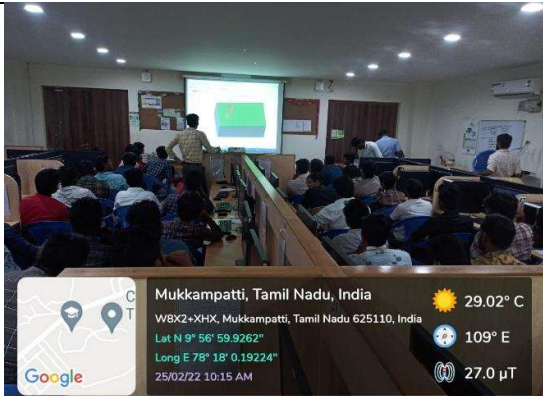

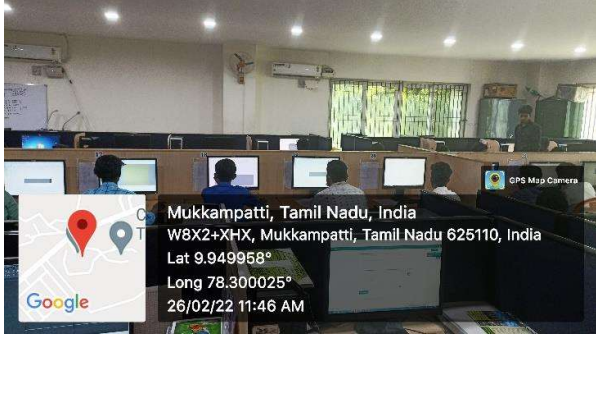

*Senthil*  
**Principal**



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**Photos Proof**

<p><b>General</b></p>  <p>Sorukulipatti, Tamil Nadu, India MDR893, Sorukulipatti, Tamil Nadu 625122, India Lat 9.950159° Long 78.299766° 21/02/22 04:49 PM</p>  <p>Sorukulipatti, Tamil Nadu, India MDR893, Sorukulipatti, Tamil Nadu 625122, India Lat 9.950173° Long 78.29975° 23/02/22 04:08 PM</p>	
<p><b>Lab session</b></p> <p><b>CREO</b></p>  <p>Mukkampatti, Tamil Nadu, India W8X2+XH4, Mukkampatti, Tamil Nadu 625110, India Lat N 9° 56' 59.9262" Long E 78° 18' 0.19224" 25/02/22 10:15 AM</p>	<p><b>CNC Coding</b></p>  <p>Sorukulipatti, Tamil Nadu, India MDR893, Sorukulipatti, Tamil Nadu 625122, India Lat 9.949553° Long 78.299293° 24/02/22 02:24 PM</p>
<p><b>Examination</b></p>  <p>Mukkampatti, Tamil Nadu, India W8X2+XH4, Mukkampatti, Tamil Nadu 625110, India Lat 9.949958° Long 78.300025° 26/02/22 11:46 AM</p>	 <p>Mukkampatti, Tamil Nadu, India Unnamed Road, Mukkampatti, Tamil Nadu 625122, India Lat 9.953162° Long 78.301812° 26/02/22 11:41 AM</p>

*N.R. madhan*  
VAC Coordinators

*S.S. Suresh*  
HoD/MECH



**CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY (CIPET)**

(Formerly Central Institute of Plastics Engineering & Technology)  
(Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India)

CIPET ஈ ரீ ரீ

HEAD OFFICE : GUINDY, CHENNAI - 600 032.



CENTRE: .....MADURAI.....

Certificate No.: A **155747**

**CERTIFICATE**

*This is to certify that*

*Srivi / Smt. / Ms. .... SREE PRABHU.A (920420JUMIE040).....*

*S/o / D/o / w/o ..... ARUMJUGASAMY.K.....*

*has successfully completed the training programme titled*

*..... CREO 3D MODELLING SOFTWARE & CNC CODING WITH LIVE DEMO.....*

*..... Organized at CIPET : CSTS ,MADURAI..... from ..... 21.02.2022... to ..... 26.02.2022.....*



Date: **26.02.2022**

COURSE COORDINATOR

TRAINING IIC - VTC

CENTRE HEAD