



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

[DEEMED TO BE UNIVERSITY]

Accredited "A++" Grade by NAAC | 12B Status by UGC | Approved by AICTE

www.sathyabama.ac.in

SCHOOL OF MECHANICAL ENGINEERING
DEPARTMENT OF AUTOMOBILEENGINEERING

**1.3.3 Value Added Course for Imparting transferable and life skills offered during
2022-2023**

S. No.	Title	Event Dates	No. of students enrolled	No. of Students completed	Page No.
1	Creo (Basic Level)	22.06.2022 to 08.07.2022	40	35	2
3	Creo (Basic Level)	07.09.2023 to 21.09.2023	35	27	8

1. Creo (Basic Level)

The Creo course tailored for undergraduate Automobile Engineering students. This comprehensive program is designed to equip you with essential tools and commands to effectively use Creo software. Throughout the course, you will be exposed to various practical examples and hands-on exercises that will enable you to proficiently model and assemble mechanical components and assemblies. By delving into computer-aided design applications, this course aims to enhance your skills, elevate your expertise, and expand your knowledge in this field.

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FREE REGISTRATION

CERTIFICATE WILL BE ISSUED

For more details and Registrations Contact:

Mr. E Manoj
Assistant Professor
Department of Automobile Engineering

Dr L Jino
Assistant Professor
Department of Automobile Engineering

NSDC
National Skill Development Corporation
Transforming the skill landscape

Skill India
कौशल भारत - कुशल भारत

INSTITUTE OF INDUSTRIAL DESIGN

SCHOOL OF MECHANICAL ENGINEERING

DEPARTMENT OF AUTOMOBILE ENGINEERING

Organizes Training Program
on
**SKILL DEVELOPMENT TRAINING
CREO (Basic Level)**

OPEN TO ALL STUDENTS OF SCHOOL OF MECHANICAL ENGINEERING

Save the date :: 22nd June to 08th July 2023

www.sathyabamauniversity.ac.in

COURSE OUTCOMES:

By the conclusion of this course, you will have achieved the following learning objectives:

- Master the construction of 2D sketches using Creo, effectively translating your ideas into detailed digital representations.
- Skillfully prepare printable drawings and documentation, ensuring precise and accurate engineering designs for various projects.
- Acquire proficiency in creating 3D models, enabling you to conceptualize, visualize, and simulate complex mechanical structures and mechanisms.
- Develop the ability to assemble components into functional systems, facilitating the understanding of the interconnections and interactions within the mechanical assemblies.
- Gain insight into Finite Element Analysis (FEA) simulations, empowering you to evaluate the structural integrity and performance of your designs under various conditions.

- Enhance your problem-solving skills by tackling real-world design challenges, fostering creativity and innovation in your engineering solutions.
- Understand the principles of parametric modeling, enabling you to make design modifications with ease and efficiency.
- Cultivate a strong foundation in product design, enabling you to contribute to the development of cutting-edge innovations in the mechanical engineering industry.

Module	Topics	Name of the Faculty	No of Sessions	Venue
1	• Creo • Introduction to Creo • User Interface and Navigation • Working with Sketches • Cartesian Coordinate System • Creating and Opening Part Files • View Manipulation in Creo	Mr E Manoj	3 Hrs	CPDD Lab
2	• Basic Sketching and Editing • Creating Sketches • Modifying Sketch Geometry • Using Constraints and Dimensions • Geometric Relations • Extruding and Cutting Features • Revolve and Sweep Features • Fillets and Chamfers	Mr E Manoj	2 Hrs	CPDD Lab
3	• Advanced Sketching • Sketch Planes and References • Advanced Constraints • Splines and Curves • Sketch Patterns • Equations and Smart Dimensions	Mr E Manoj	2 Hrs	CPDD Lab
4	• Modeling with Solid Features • Creating Base and Boss Features	Mr E Manoj	2 Hrs	CPDD Lab

	• Creating Cut and Hole Features • Shell and Rib Features • Draft and Fillet Analysis • Patterns and Mirroring Features			
5	• Assembly Basics • Introduction to Assemblies • Component Mates and Constraints • Top-Down and Bottom-Up Assembly Design • Subassemblies and Flexible Assemblies	Mr E Manoj	2 Hrs	CPDD Lab
6	• Advanced Assembly Techniques • Smart Components • Assembly Features • Exploded Views and Animations • Interference Detection • Configurations and Design Tables	Mr E Manoj	2 Hrs	CPDD Lab
7	• Introduction to Drawings • Creating New Drawing Sheets • Adding Views to Drawings • Dimensioning and Annotations • Bill of Materials (BOM) • Editing and Managing Drawings	Mr E Manoj	2 Hrs	CPDD Lab
8	• Advanced Drawing Techniques • Section Views and Broken Views • Detail Views and Auxiliar Views • Customizing Drawing Templates • Tolerances and Geometric Dimensioning and Tolerancing (GD&T)	Dr L Jino	2 Hrs	CPDD Lab
9	• Working with Sheet Metal • Sheet Metal Fundamentals • Creating Sheet Metal Parts	Dr L Jino	2 Hrs	CPDD Lab

	• Sheet Metal Bends and Unfolds • Flat Patterns and Bend Tables			
10	• Surfacing • Introduction to Surfacing • Creating Loft and Boundary Features • Sweep and Fill Features • Surface Trim and Knit	Dr L Jino	2 Hrs	CPDD Lab
11	• Weldments • Creating Structural Frames • Applying Weldments and Members • Working with Cut List and Weldment Drawings	Dr L Jino	2 Hrs	CPDD Lab
12	• Simulation and Analysis • Introduction to Simulation • Applying Loads and Constraints • Running and Interpreting Simulations	Dr L Jino	2 Hrs	CPDD Lab
13	• Introduction to Mold Design • Creating Mold Bases • Parting Lines and Surfaces • Draft Analysis and Mold Tools	Dr L Jino	2 Hrs	CPDD Lab
14	• Rendering and Animation • Applying Appearances and Textures • Creating Photo-Realistic Renderings • Animating Assemblies and Components • Presenting Designs and Explaining Concepts	Dr L Jino	3 Hrs	CPDD Lab

Participants list:

Sl. No	Reg No	Name
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1	41860001	AKASH E
2	41860002	ALLEN K ABRAHAM
3	41860004	DINESH KUMAR REDDY P
4	41860006	HARISH S
5	41860007	MANIKANDAN B
6	41860008	MOHAMMED ETHRIS M.S.A
7	41860010	PRAVEEN V
8	41860011	SATHISH NARAGONI
9	41860012	SHAIK NADEEM S
10	41860013	SHREYASH V
11	41860014	SOHAN YADAV K
12	41860015	SUNIL KUMAR DHANASEKAR
13	41860016	THAMIZH P
14	41860017	VAMSHI KRISHNA SUPPA
15	39860001	ABISHEK JEREMIAH. J
16	39860002	AJAY ESHWAR. M
17	39860003	AJITH. A
18	39860006	ANTONY MARSHALL. R
19	39860007	DEV PRASAD. V
20	39860008	KILARI LIKITH KUMAR
21	39860009	KOTHA SATHWIK
22	39860012	MUHAMMED ARSHAD
23	39860013	MUTHUPANDI. K
24	39860014	NASSION NEUPANE
25	39860015	PONBARANI. R
26	39860016	PRANAVAN. B
27	39860017	RAMESH KUMAR. P
28	39860018	SANJAI. R
29	39860019	SATHEESWARAN. S
30	39860020	SHAIK MAHAMMED SAYER
31	39860021	SIDDHARTHA BABU CHAUDHARY
32	39860022	SRINI. M
33	39860023	SRIRAM. M
34	39860024	THAI NAGA AVINASH
35	39860701	MURALI KRISHNA K

Certificate Of Participation

THIS CERTIFICATE IS GIVEN TO

Mr. ALLEN K ABRAHAM

of Sathyabama Institute of Science and Technology has successfully participated in the training on " **Skill Development Training on Creo**" organized by the Department of Automobile Engineering, Sathyabama Institute of Science and Technology, Chennai held on 22nd Jun - 08th July 2022.

Murali K P

CONVENER & HOD MECHANICAL



S. R

DEAN MECHANICAL



2.CREO (Advance Level)

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th Sep to 21st Sep 2023'. The website 'www.sathyabamauniversity.ac.in' is at the bottom right."/>

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DEPARTMENT OF AUTOMOBILE ENGINEERING

Organizes Training Program
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SKILL DEVELOPMENT TRAINING
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Save the date :: 07th Sep to 21st Sep 2023

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	Presenting Designs and Explaining Concepts			
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Participants list:

Sl. No	Reg No	Name
1	42860010	S.S.MURALISHWARAN
2	42860019	YUGESHWARAN. R
3	42860018	VARUN. S
4	42860013	SANTHOSH. R. G
5	42860006	GOKUL KRISHNAN. G
6	42860005	DINESH KUMAR. R
7	42860003	AMERGITH. S
8	42860002	ALDRIN JOE SUNIL
9	42860015	SIBI KUMARAN. K
10	42860011	MUTHUKUMAR. B
11	42860004	ASHWIN. K
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22	40860005	YASWANTH GANESH ALLA
23	40860002	KAVVAMPALLY RAHUL
24	40860703	SATYAM SHRIVASTAV
25	40860001	IGNATIUS RAJA NADAR
26	40860003	SABINESH. V
27	40860702	KARTHICK KUMARAN. R

