

About PSG Polytechnic College & CADD Laboratory:

PSG Polytechnic College, established in the year 1939, a pioneer institute in the field of Technical Education and Research, is a Government Aided, an ISO 9001 certified institution with Autonomous status from 1976.

The dedicated **Computer Aided Design & Drafting Laboratory (CADD Lab)**, **Department of Mechanical Engineering, PSG Polytechnic College** was established with the objective of providing Engineering Design Environment for the academic and research community and also caters to the design and development service requirement of Industries across the country.

The Centre offers training to Engineering Professionals apart from being a support service for the Faculty and Students. The CADD Laboratory has been powered with High-End Workstations having powerful processing and graphics capability to work efficiently with MCAD application software's.

Nodal Centre for EMD & Continuing Education Cell (CEC) was established in PSG Polytechnic with the aim of updating and enhancing the knowledge of working professionals, students and entrepreneurs. It aims to serve the needs of variety of industries, business and community.

About the MCAD Applications:

PTC Creo is a parametric, integrated 3D CAD/CAM/CAE solution created by Parametric Technology Corporation (PTC), USA. It was the first to market with parametric, feature-based, associative solid modeling software. The application runs on Microsoft Windows and UNIX platforms, and provides solid modeling, assembly modeling and drafting, finite element analysis, and NC and tooling functionality for mechanical engineers.

CATIA V5 is a multi-platform CAD/CAM/CAE commercial software suite developed by the Dassault Systèmes, France. CATIA supports multiple stages of product development (CAx), from conceptualization, design (CAD), manufacturing (CAM), and engineering (CAE). CATIA facilitates collaborative engineering across disciplines, including surfacing & shape design, mechanical engineering, equipment and systems engineering.

SolidWorks is a 3D mechanical CAD program that runs on Microsoft Windows and is being developed by Dassault Systèmes, France. SolidWorks is currently used by over 1.3 million engineers and designers at more than 130,000 companies worldwide. SolidWorks is a Parasolid - based solid modeler, and utilizes a parametric feature-based approach to create models and assemblies.

Autodesk AutoCAD 2022 is a CAD software application for 2D and 3D design and drafting. It is developed by Autodesk, Inc USA. AutoCAD was one of the first CAD programs to run on personal computers. Modern AutoCAD includes a full set of basic solid modeling and 3D tools.

Topics to be covered:

- ✓ Introduction to CAD/CAM
- ✓ Geometric modeling techniques
- ✓ Introduction to Sketching
- ✓ Creation of Parametric sketches
- ✓ Dimensions and Constraints
- ✓ 3D Model Creation technique
- ✓ Constructional Feature creation
- ✓ Engineering Feature creation
- ✓ Creation of Sections / Views
- ✓ Reference Features
- ✓ Modification of Features
- ✓ Introduction to Assembly Modeling
- ✓ Introduction to Parametric drafting from 3D Models
- ✓ File Import / Export / PDF etc.

COURSES OFFERED:

1. Parametric Design using PTC Creo - 50 Hrs
2. Parametric Design using SolidWorks - 50 Hrs
3. Parametric Design using CATIA V5 - 50 Hrs
4. Computer Aided Design using AutoCAD - 50 Hrs

COURSE DURATION:

Module (50 hrs)	Full Time	9.30am to 4 pm
	Part Time	5.00pm to 7.00pm

- Each participant is given individual PC / Workstation for practical sessions
- Expert faculty members, well experienced in teaching and consultancy works in the domain of CAD/CAM will handle the lectures and practical sessions.

Attractive discounts will be offered for the Students from ANY Engineering / Polytechnic colleges.

ELIGIBILITY:

- ✓ Degree / Diploma / ITI Students and Working professionals.
- ✓ Knowledge in Engineering Drawing is must.

COURSE FEE:

1. For PTC Creo, CATIA V5 & SolidWorks : Rs. 6000/- each. (Rupees Six Thousand only).
2. For AutoCAD : Rs. 3000/- (Rupees Three Thousand only).

Registration Fee: Rs. 100/- (Rupees Fifty only).

Fees should be paid by **Demand Draft** drawn from a Nationalized Bank in favour of **“The Principal, PSG Polytechnic College”** payable at Coimbatore.

For further information contact:

The Manager

Nodal Centre for EMD / Continuing Education Cell (CEC)

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Short - term Training Programme in CAD/CAM & CAE

Computer Aided Design using AutoCAD,
Parametric Design using PTC Creo,
CATIA V5, SolidWorks



COURSE OBJECTIVE

Design, Manufacturing, and Product Development is the complete set of activities needed to bring new technologies and services to the marketplace. This course is designed to provide practical tools necessary to transform the product ideas of Entrepreneurs into a marketable and commercially viable product.



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