

About PSG Tech & CADD Lab:

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 (CADD) Laboratory, 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 Entrepreneurship & Management Development of PSG Polytechnic College has been established in the year 1995 and is sponsored by All India Council for Technical Education, New Delhi. The Centre promotes Entrepreneurship & Management Education through various programmes. The Centre conducts Continuing Education Programmes and offers consultancy to industries.

About the MCAD Applications:

Pro/ENGINEER Wildfire is a parametric, integrated 3D CAD/CAM/CAE solution created by Parametric Technology Corporation (PTC). 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 (Computer Aided Three - dimensional Interactive Application) 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.

AutoCAD 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.

Topic 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 and Drafting
- ✓ File Import / Export

COURSES OFFERED:

1. Parametric Design using Pro/ENGINEER Wildfire - 50 Hrs
2. Parametric Design using SolidWorks - 50 Hrs
3. Parametric Design using CATIA - 50 Hrs
4. Computer Aided Design using AutoCAD - 50 Hrs
5. Computer Numerical Control Machines (CNC) - 60 Hrs

COURSE DURATION:

Module (50/60 hrs)	Full Time	10.00am to 4 pm
	Part Time	6.30pm to 8.30pm

- Each participant is given individual system for practical sessions
- Expert faculty members, well experienced in the area of teaching and consultancy works, will handle the lectures and practical sessions.

ELIGIBILITY:

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

COURSE FEE :

1. For Pro/ENGINEER, SolidWorks & CATIA V5 : Rs. 5000/- each. (Rupees Five Thousand only).
2. For AutoCAD : Rs. 3000/- (Rupees Three Thousand only).

Registration Fee : Rs. 50/- (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 Co-Ordinator

Nodal Centre for EMD
C-Block, PSG Polytechnic College
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Short - term Training Programme in CAD/ CAM & CNC

Computer Aided Design using AutoCAD,
Parametric Design using Pro/ENGINEER,
SolidWorks, CATIA V5 & CNC



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.



**CADD Laboratory, Dept. of Mech. Engg., &
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