

P.S.G  
COLLEGE OF TECHNOLOGY

## OTHER COURSES OFFERED

- Diploma in CAD/CAE/CAM (CREO and ANSYS)
- Diploma in CAD/CAE/CAM (3DEXPERIENCE CATIA and ANSYS)
- Part Design using 3DEXPERIENCE CATIA
- Design Drafting and Assembly using CREO
- Design Drafting and Assembly using 3DEXPERIENCE CATIA
- CAM simulation, NC programming using CNC Lathe and 3-axis VMC
- Reverse Engineering of Products
- Hands-on training in Coordinate Measuring Machine (CMM) and Dimensional Metrology

# PSG COLLEGE OF TECHNOLOGY

## CAD/CAM Centre

Value Added Course for Engineering Students

## Solid Modeling using CREO

Visualization  
using Virtual  
Reality  
Technology

## COURSE CONTENTS

- Introduction to CREO
- Solid modeling
- Types of features
- Creation of features
- Creation of advanced features
- Modeling of mechanical elements
- Visualization using virtual reality technology

Full Time

9 AM to 4.30 PM

40 hrs

Part Time

4.30 PM to 7.30 PM

40 hrs

## For Details



0422 - 4344136, 4344147



cnce@psgtech.ac.in



CAD/CAM Centre  
Y-Block (Third Floor)

PSGCNCE,  
A-Block (A103)

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### CATIA

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## CAM Simulation, CNC Programming using CNC Lathe & 3-Axis VMC

### COURSE CONTENTS

- Introduction to CAD/CAM and CNC
- Solid modeling
- Creation of features
- Material and tool selection
- CAM simulation using CREO
- Manual part programming
- Canned cycles
- NC code generation
- Training in CNC lathe & 3-Axis VMC
- Maintenance of machine tools

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#### COURSE CONTENTS

- Introduction to reverse engineering
- Sketching and development of 2D/3D concept
- Modeling
- Advanced surface creation tools
- Analysis & Annotation
- Shade & Render
- Reverse engineering using Microscribe with Rhinoceros
- Data exchange with the CAD Packages
- Visualization using virtual reality technology

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#### COURSE CONTENTS

##### Dimensional metrology

- Calibration of measuring instruments and evaluation of measurement uncertainty
- Evaluation of repeatability & reproducibility

##### Coordinate metrology

- Basics of GD&T, limits, fits & tolerance
- Introduction to CMM & MCOSMOS v4.1
- Co-ordinate System
- Probe data management / Calibration
- Plane selection & creation of datum
- Basic measurements
- Manual / Automatic programming
- 2D comparison
- contour profile measurement
- Nominal to actual comparison
- Hands on practice in CMM & Dimensional metrology

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