

P.S.G
COLLEGE OF TECHNOLOGY

OTHER COURSES OFFERED

- Diploma in CAD/CAE/CAM (3DEXPERIENCE CATIA and ANSYS)
- Solid modeling using CREO
- 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

Diploma in CAD/CAE/CAM (CREO and ANSYS)

COURSE CONTENTS

With Hands-on training in Virtual Reality Technology

- Introduction to CREO
- Solid modeling
- Creation of advanced features
- Assembly and drafting
- Introduction to CAE
- CAE analysis using ANSYS
- Introduction to CAM and CNC
- CAM simulation and NC code generation using CREO
- Dimensional and form measurement using CMM
- Introduction to virtual reality
- Interaction with CAD model using virtual reality technology

Full Time 9 AM to 4.30 PM 450 hrs/15 weeks

Part Time 4.30 PM to 7.30 PM 450 hrs/30 weeks

For Details

📞 0422 - 4344136, 4344147

✉️ cnce@psgtech.ac.in



CAD/CAM Centre
Y-Block (Third Floor)

PSGCNCE,
A-Block (A103)

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CAD/CAM Centre

Diploma in CAD/CAE/CAM (3DEXPERIENCE CATIA and ANSYS)

COURSE CONTENTS

- Introduction to 3DEXPERIENCE CATIA
- Part design
- Creation of advanced features
- Assembly and drafting
- Introduction to CAE
- CAE analysis using ANSYS
- Introduction to CAM and CNC
- CAM simulation and NC code generation using 3DEXPERIENCE CATIA
- Dimensional and form measurement using CMM
- Introduction to virtual reality
- Interaction with CAD model using virtual reality technology

With Hands-on training in Virtual Reality Technology

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Solid Modeling using CREO

COURSE CONTENTS

Visualization
using Virtual
Reality
Technology

- 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

60 hrs/ 2 weeks

Part Time

4.30 PM to 7.30 PM

60 hrs/ 4 weeks

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Part Design using 3DEXPERIENCE CATIA

COURSE CONTENTS

- Introduction to 3DEXPERIENCE CATIA
- Part design
- Types of features
- Creation of features
- Creation of advanced features
- Modeling of mechanical elements
- Visualization using virtual reality technology

Visualization
using Virtual
Reality
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CAD/CAM Centre

Design, Drafting and Assembly using CREO

COURSE CONTENTS

Visualization using Virtual Reality Technology

- Introduction to CREO
- Creation of features
- Assembly of parts
- Sub assembly concepts
- X-Section of an assembly
- Drafting, GD&T and BoM
- Introduction to virtual reality technology
- Visualization using virtual reality technology

Full Time

9 AM to 4.30 PM

210 hrs/ 7 weeks

Part Time

4.30 PM to 7.30 PM

210 hrs/ 14 weeks

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CAD/CAM Centre

Design, Drafting and Assembly using 3DEXPERIENCE CATIA

Visualization
using Virtual
Reality
Technology

COURSE CONTENTS

- Introduction to 3DEXPERIENCE CATIA
- Creation of features
- Assembly of parts
- Sub assembly concepts
- X-Section of an assembly
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Part Time 4.30 PM to 7.30 PM 210 hrs/ 14 weeks

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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

Full Time

9 AM to 4.30 PM

210 hrs/ 7 weeks

Part Time

4.30 PM to 7.30 PM

210 hrs/ 14 weeks

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Reverse Engineering of Products

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

Visualization using Virtual Reality Technology

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Full Time

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90 hrs/ 3 weeks

Part Time

4.30 PM to 7.30 PM

90 hrs/ 6 weeks

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CAD/CAM Centre

Hands-on Training in Coordinate Measuring Machine (CMM) and Dimensional Metrology

COURSE CONTENTS

Dimensional metrology

- Calibration of measuring instruments and evaluation of measurement uncertainty
- Evaluation of repeatability & reproducibility
- Surface roughness evaluation
- Form measurement
- Dimensional measurement using electronic height master
- Basics of GD&T, limits, fits & tolerance

Coordinate metrology

- 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

Full Time

9 AM to 4.30 PM

120 hrs/ 4 weeks

Part Time

4.30 PM to 7.30 PM

120 hrs/ 8 weeks

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