

Course Components:

- **Class Meetings:** Daily 2 hr. sessions are scheduled in the Holdsworth 30 computer room. They provide a hands-on environment for the instructor to introduce core techniques and for the students to practice these in exercises and group work. **Attendance and participation is mandatory.**
- **Assignments:** 3 assignments provide a task-oriented opportunity for students to practice their skills.
- **Midterm and Final Projects:** Two larger course projects allow students to practice their skills on a project-oriented task.

◆ Eligibility ◆

12th Any Stream (with Civil background)
(Diploma or Degree)
Architecture, Interior Design
Civil Draftsman,
Students appeared in Civil

◆ Course Fee ◆

Rs. 8,600/- per candidate

◆ Duration ◆

180 Hours (2^{1/2} Months)
Intake: 40 Students per batch

Batch Timings

: **Morning Batch :**
07:30am – 09:30am

: **Evening Batch :**
5:30pm – 07:30 pm

◆ Faculty ◆

Kiran Supekar,
Mobile : 9665013774

◆
And Other Professional Associates
from relevant field

◆ Infrastructure ◆

Well-equipped laboratory &
other facilities

◆
For further details please contact

Prof. D. S. Kulkarni I/c. CED
Phone: 0712-6531125

◆
Dr. C. S. Thorat
Principal



GOVERNMENT POLYTECHNIC

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Presents
Continuing Education Program
on

Job Oriented Course in

*Architectural
Designs*



IN COLLABORATION WITH



Virtual Designs



Profile of Govt. Polytechnic

Government Polytechnic, Nagpur is one of the Prime Institutions of Govt. of Maharashtra established in 1914. This Institute imparts technical education at Diploma and Post Diploma levels and is known for its excellence at State level and National level.

Institute has been accredited by National Board of Accreditation, New Delhi.

Importance of the course :

This course is designed for Architects, Interior Designers Industrial Designers and Students Seeking to acquire 3D computer visualization skills. The course focuses on texturing architectural cad drawing, architectural modeling and 3D with advanced camera techniques bit is suitable for all other design disciplines also.

About Course

This course provides students with a broad introduction into 2-dimensional and 3-dimensional Computer-Aided Design (CAD) and modeling with a focus on construction- and architecture-specific applications, including Building Information Modeling (BIM). Students will learn how to use industry-leading CAD software programs (Autodesk AutoCAD, Trimble SketchUp, and Autodesk Revit) to model construction projects, and then create and distribute basic, industry-standard architectural drawings.

COURSE CONTENTS

Autocad 2D & 3D

- **Introduction To AutoCAD**
- Getting Started with AutoCAD
- Concepts of Drawing And Editing in Autocad
- The Tools in Autocad
- Organizing Your Work in Autocad
- Organizing Drawing With Layers
- Getting Information From Drawing in Autocad
- Adding Text To Drawings in Autocad
- Drawing Curves And Solid Fills in Autocad
- Introduction of 3D
- Working in 3D in Autocad
- Modification of created object in Autocad
- Rendering 3d drawings
- Getting perspective views in Autocad
- Visualization of techniques in Autocad
- Concept of rendering in Autocad
- Setting visual effects in Autocad
- Printing your module in Autocad
- **Project**

3D Max

- Introduction to 3D Max
- About 3D Max Workspace
- Adding Plan to Max
- Texturing Background
- Lighting
- Perspective views
- Rendering
- **Project**

Revit Architecture

- Introduction To Revit Architecture
- Drawing & Editing Concepts
- Revit Tool & Workspace
- Import Plan in Revit
- Basic Building Design
- Create Roof, Walls, Terrace
- 2D & 3D Building modeling
- Placement of Door
- Placement of Windows
- Placement of Furniture
- **Project**

Students will gain from this course:

- Understanding of the power and precision of computer-aided modeling and drafting.
- Ability to construct accurate 2D geometry as well as complex 3D shapes and surface objects.
- Ability to create 2D representations of 3D objects as plan view, elevations and sections.
- Ability to assemble these drawings in industry-standard plan form and produce plotted hard copies ready for distribution.
- Awareness of architectural drafting with a focus on industry standards.