

SKETCHUP COURSE SYLLABUS

SketchUp is an intuitive and easy-to-learn 3D drawing tool, SketchUp create 3D models, blueprints and renderings. SketchUp is useful from the earliest stages of schematic design.

SketchUp skills:

Objects from trees to furniture to people are available
Draw plans, elevations and sections
Render photo-realistic images with SketchUp & V-Ray

Course's general objectives:

Design based on 3D models
Quickly creation of conceptual architectural masses
Get sections, layouts, elevations and isometric views
Render photo-realistic images
Get free 3D models from the SketchUp 3D Warehouse

Specific Objectives:

Basic Geometry
Surfaces from Polygons
3D Drawing with the Pencil Tool
Other geometric shapes and volumes
Display Options and Styles
Solids and operations with solids
Layouts and presentation styles
Dimensioning in the Layout environment
Apply color, images, and textures to 3D elements
Create lights and shadows in the scenes

VRay:

Apply textures
Create new materials
Create a lighting project
Photo-realistic render

SKETCHUP COURSE CONTENT

Toolbars

- Camera controls
 - Pan
 - Zoom
 - Orbit

Basic tools

- Rectangle
- Circle
- Select
- pencil
- push /pull
- Groups
- Components
- Move
- Rotate
- Copy
- Array
- Polar array
- Offset
- Paint bucket

Modeling architectural elements

- Walls + floor
- Windows
- Doors
- Frames
- tables
- Openings

Materials

- Search online for materials
- Create new material

Edit materials

- Scale
- Rotate
- Edit

Warehouse

- Download models
- Edit models
- Groups and components
- Scale
- Object placement
- Locking to axis
- Reference points

Scenes

- Create Scenes
- Save and edit scenes

Section plane

- Sections
- Elevations
- Floor plans

Layouts

- Preparing views in SketchUp
- Sending to layouts
 - Positioning
 - Moving
 - copy
 - Scale

Dimensions

- Updating model reference
- Dimension styles in layout
- Title block

Architectural and Interior Elements

- Structures
 - Floor
 - Walls / store front
 - Windows
 - Doors
 - Stairs
 - Rails
 - Columns

Detailing

- Tables
- Counters
- Rugs
- Picture frames / posters
- Light fixtures
- Planters
- Accessories

Lighting

- Lighting with shades
- Directional lights
- Ambient lights
- General lights
- Accent lights

Test renders

Render

- Fixing the lighting
- Editing materials
- VRay material effects
- Camera positioning
- Render settings

Presentations

- Views in SketchUP for use in Layouts
- Set up layout
 - Image hierarchy
 - scale
- Inserting renderings
- Dimensions and labels
- Title block
- Presentation Tips