

FUTURE GEN TECHNOLOGIES

General Course Outline

➤ 1. Introduction to the Interface Lecture on CREO/PRO-E

2D Sketching

2D Modeling

Constraints and Relations application

Dimensioning and Editing dimensions

Inspection of Sketches or Profiles

➤ 2. Part Modeling

Use of Modeling Tree

Selection of planes

Datum plane creations

Basic steps for creating profiles in part Environment

What is modeling?

Creating an Extrude feature (Solid, Surface, Sheet Metal,
Protrusion and Cut)

Revolve Tool with live Examples

Sweeping models with examples

Helical sweep creating different types of springs and threading
features

Creating blend features

Parallel blends and Rotational blends

Creating of advanced features (Filletts, Chamfers, Ribs, Drafts,
Shell, Mirror)

Pattern features

Axis pattern

Fill pattern

Direction Pattern

Dimension Pattern

Creating surface features (Trim, Offset, Thicken, Solidify,
Intersect, Project, Extend)

Creating advanced surface features (Blend, Fill, 3DSurfaces)

Creating Hole features (Standard and Normal holes)

Material application of model

View Tool bar icons use

Layers tree use

Rendering

➤ 3. Assembly Design

Importing of models in assembly module

Use of 3d axis system in assembly module

Place a base component

Constraints using in assembly condition

Replacing component

Creating exploded views

Creating section views

Material visualize after assembly

Pattern use in assembly condition

➤ 4. Drafting

Drawing fundamentals

Adding items to drawing

Creating and placing drawing views
Working with major view types
General view-changing default orientations
Auxiliary, Detailed, Revolve views
Controlling the visibility of model
Moving and modifying the views
Rendering the views
2D drafting
Creating dimensions
Drawing notes
Geometric Tolerances
Detail menu on drawing mode
Creating the drawing Tables
Adding new sheets to the drawing
Formate creating
Image placing or logo placing
Surface roughness symbols application
ASME 14.5 GD&T CONCEPTS EXPLAINATION

➤ 5. Sheet Metal

Introduction to sheet metal
Sheet metal operations
Extrusion Tool
Planar Tool and use
Bend types
Flat bend

Flange bend
Blend tool
Part to sheet metal conversions
Rip application and types
Punch form tool
Fill tool
Extend tool and offset tool use
Bend calculations

- **Future gen training & course syllabus can make the student to challenge on the success of international interviews.**

ABOUT US

- **Future Gen Technologies Training center is an engineering training institute providing trainings on job oriented professional courses for . Our training programs cover Civil Engineering, Mechanical Engineering, Electrical Engineering & IT Engineering.**
- **The Aim of the Future Gen is to develop quality engineers by providing the real time practical knowledge.**
- **Future Gen Training center has a team of highly experienced & qualified teaching staff. Many of them are experienced with real time projects. Our courses training mainly focus on instructors past experience and practical examples. This will help the trainees to have a better understanding of the concept.**
- **Future gen technologies also comprise a placement cell and enjoy placement tie ups with many companies. Student gets the placement**

benefits after the completion of the course. Many of our students have been successfully placed with some reputed companies in India & other countries.

WHY FUTURE GEN ?

- **Future Gen provides the real time training on 100% job oriented courses on international projects & make every student to work on individual project in the training period.**
 - **Knowledge of Students who trained under Future Gen will be as good as experienced professionals.**
 - **Future gen provides digital training by In-depth demonstration on every aspect of course topics.**
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- **Future Gen provides the complete support after completion of your course**
 - **We provide excellent quality of infrastructure to our students**
 - **Future gen provides the special training classes on personality development and interview skills after completion of course with 100% placement assistance.**
 - **Highly qualified faculty with industry experience**

- **Training will be provided based on 20% theory and 80% practical concept**
- **Get fee Refund if not satisfied**

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Thank & Regards,

FUTURE GEN TECHNOLOGIES,

AMEERPET,KPHB HYDERABAD

Future Gen Tech