



CATIA V5 for Industrial Designer

Course Curriculum (Duration: 80 Hrs.)

Chapter 1: Introduction to Advance CATIA V5

- Introduction to Boolean Operations
- Application of Boolean operation in Automobile trim components
- Introduction to Power copy
- Parameters required for application of power copy in Trim parts
- Introduction to BIW template
- I) Junction,
- II) Diablo
- III) mating flange
- IV) Beads, etc.
- Creation of short cut keys for every command.
- Modelling of complex geometry required for industry
- Techniques of minimizing specification tree
- Insertion of commands in active command
- Modelling of Automobile components having complex design

Chapter 2: Non Parametric to Parametric modelling with Advance CATIA V5

- Concept of parametric modelling
- Introduction to non-parametric modelling
- Modelling techniques of non-parametric to parametric modelling
- Parameters consider in non-parametric to parametric modelling
- Advance commands used for modelling this concept

Chapter 3: Modelling of sheet metal components with Advance CATIA V5

- Advance techniques required for modeling of sheet metal components
- Modelling of BIW features
- Modelling of BIW components
- Techniques of minimizing model tree
- Modelling of automobile Body components
- Modelling of components for manufacturing

Chapter 4: Modelling of Plastic components with Advance CATIA V5

- Advance techniques required for modeling of plastic components
- Design guidelines used in plastic components
- Draft analysis
- Modelling of Plastic features such as ribs, stiffener, dog house, etc.
- Modelling of Trim parts used in industry
- Non parametric to parametric modelling in plastic trims

Chapter 5: Filleting techniques in Advance CATIA V5

- Introduction to filleting
- Methods of filleting
- Filleting of complex model for manufacturing
- Use of proper fillets

Chapter 6: Part modelling using Top down assembly techniques

- Introduction to top down assembly
- Methods of part modelling
- Location and coordinates of components in top down
- Car lines

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