



## Seating System Design using CATIA V5

### Instructor-Led Online Training

#### Course Curriculum (Duration: 60 Hrs.)p

- 1. Basic Fundamentals about Seat**
  - a. Introduction about seat
  - b. Seat types
  - c. Vehicle types
  - d. Seat Features and Components
  - e. Design Parameters
  - f. Manikin Information
  - g. SGRP, H-Point, Torso Angle and Cushion Angle
  
- 2. Initial Packaging**
  - a. Access to surrounding components
  - b. Spacing availability
  - c. Environmental data
  - d. HR position
  - e. Market Study
  - f. Gap Study
  - g. Control Access Study
  - h. M to M Distance
  - i. Lever Latches Packaging
  
- 3. ECE regulations**
  - a. Regulations used
  - b. Parameter consider for regulations
  - c. Indian Regulation
  
- 4. Foam Making & Trim**
  - a. Material
  - b. Process
  - c. Parameters
  - d. Foam built (CAD concept)
  - e. Structural considerations
  - f. Packaging
  - g. Methods used for Trimming
  
- 5. Armrest \ Headrest Design**
  - a. Material
  - b. Process
  - c. Types
  - d. Regulations used
  - e. Packaging
  
- 6. Mechanism**



- a. Types of seats
- b. Types of tracks
- c. Types of Recliner / Latch
- d. Types of HR
- e. Other Mechanisms

**7. GD&T**

- a. Introduction
- b. Different types of symbols used
- c. Datum's
- d. Features frame
- e. 2D Drawing
- f. Part and Assembly Drawing

**8. Layouts**

- a. Safety
- b. Comfort
- c. Packaging
- d. Environment
- e. Complete Seat
- f. Fasteners

**9. BOM & Assembly**

- a. BOM creation and annotations
- b. Significance
- c. Annotation and Details
- d. Assembly structure

**10. CATIA Modeling Methodology and Workshops**

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