



## Seating System Design using CATIA V5

Course Curriculum (Duration: 80 Hrs.)

- 1. Basic Fundamentals about Seat**
  - a. Introduction about seat
  - b. What is SGRP
  - c. What is H-Point
  - d. Torso angle
  - e. Cushion angle
  - f. Different types of Seats
  
- 2. Initial Packaging**
  - a. Access to surrounding components
  - b. Spacing availability
  - c. Environmental data
  - d. HR position
  
- 3. Comfort definition**
  - a. Access to surrounding components
  - b. Foam material
  - c. MTM condition
  - d. Clearance with levers and latches
  
- 4. ECE regulations**
  - a. Regulations used
  - b. Parameter consider for regulations
  
- 5. Foam making**
  - a. Material
  - b. Process
  - c. How foam built(Cad concept)
  - d. Structural considerations
  - e. Packaging
  
- 6. ARVHR design**
  - a. Material
  - b. Process
  - c. Types
  - d. Regulations used
  - e. Packaging
  
- 7. Mechanism**
  - a. Types of seats
  - b. Types of tracks
  - c. Types of HR

**8. Trim**

Methods used for trimming

**9. GD&T**

- a. Different types of symbols used
- b. Datum's
- c. Features frame

**10. Layouts**

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

**11. BOM & Assembly**

- a. BOM creation and annotations
- b. Assembly structure

**12. CATIA Modeling methodology and workshops**

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