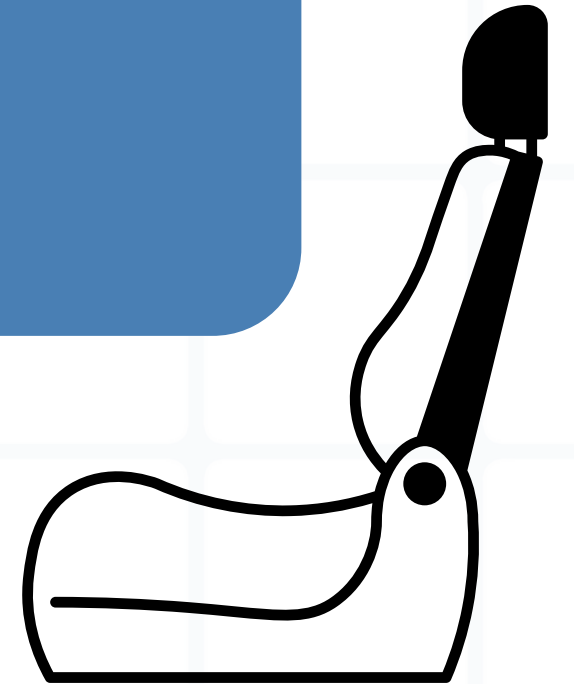
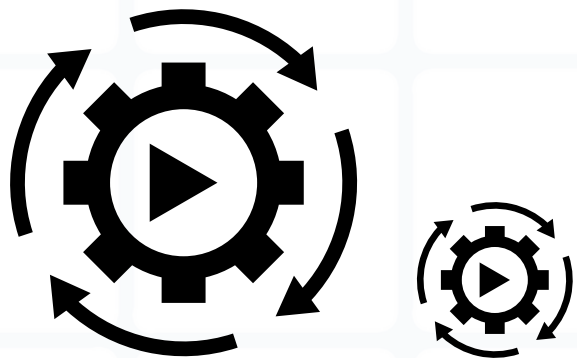


..... SEATING .....

# SYLLABUS



# WEEK 1

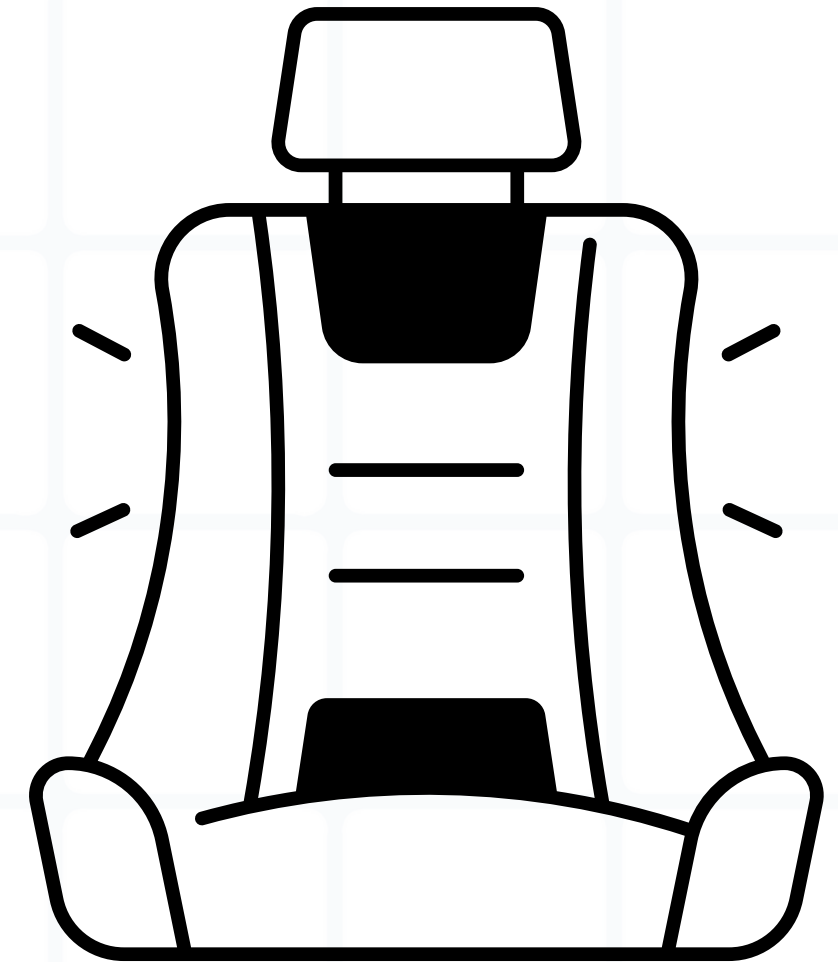
## INTRODUCTION TO AUTOMOTIVE SEATING ( 2 HOURS )

In this course, we will have a brief  
Introduction of Automotive Structure, Seats & its Nomenclature.

After this topic followings questions will be answered :

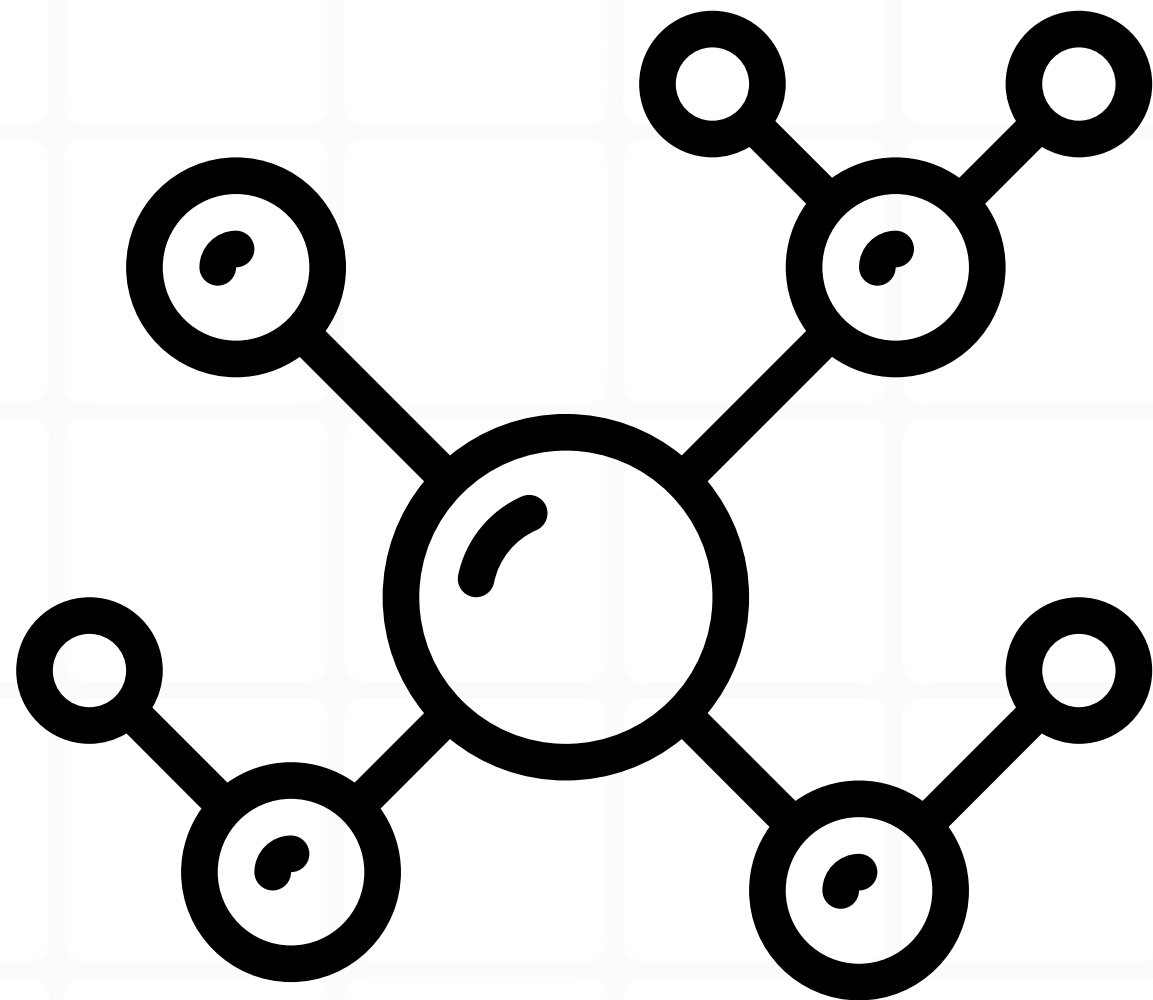
- 1 – How Automotive Seating System got evolved?
- 2 – What is Automotive?
- 3 – What is Seats?
- 4 – How Seats evolved – History?

**Assignment** – 10 Quiz questions



# WEEK 2

## COMPONENT OF SEATS ( 3 HOURS )



This Course Contains information about the parts/component used to design/develop a seat as per the requirement from customer. It will also have a basic of mechanism used in a seat to provide the movements. It is defined in two segments:

- 1 – Front Row Components
- 2 – Rear Row Components

After this Course followings questions you will be able to answer :

- 1 – Basic components/ added components front row seat will have?
- 2 – Basic components/ added components rear row seat will have?

**Assignment** : 10 Quiz questions



# **WEEK 3 – 4**

## **COMPONENT DETAILS :**

### **STRUCTURE ( 6 HOURS )**

In this course we will brief about the Components – Structure

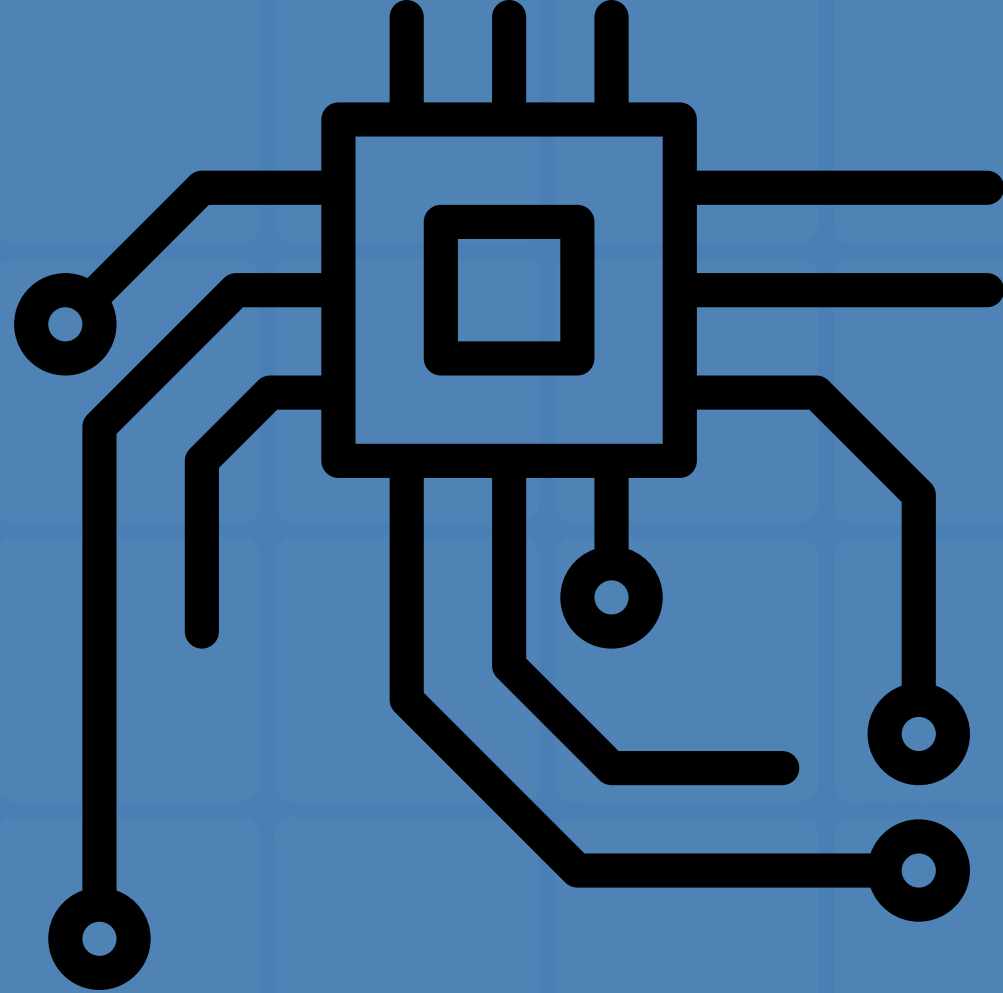
Following points will be covered during the course with hands on Catia model.

- 1 – Types of Structure
- 2 – Component of Structure
- 3 – Design guide line
- 4 – Material used in manufacturing
- 5 – Methods used to develop structure

After this Course followings questions you will be able to answer :

- 1 – Sheet Metal terminology?
- 2 – Globally used Structures types?
- 3 – How to design a Sheet metal seat parts in Catia
- 4 – Different methodology used to manufacture seat frame parts
- 5 – Different type of defects in Frames.

**Assignment:** 10 Quiz questions , CAD Development in Catia



## **WEEK 5 – 6**

# **COMPONENT DETAILS : FOAM ( 7 HOURS )**

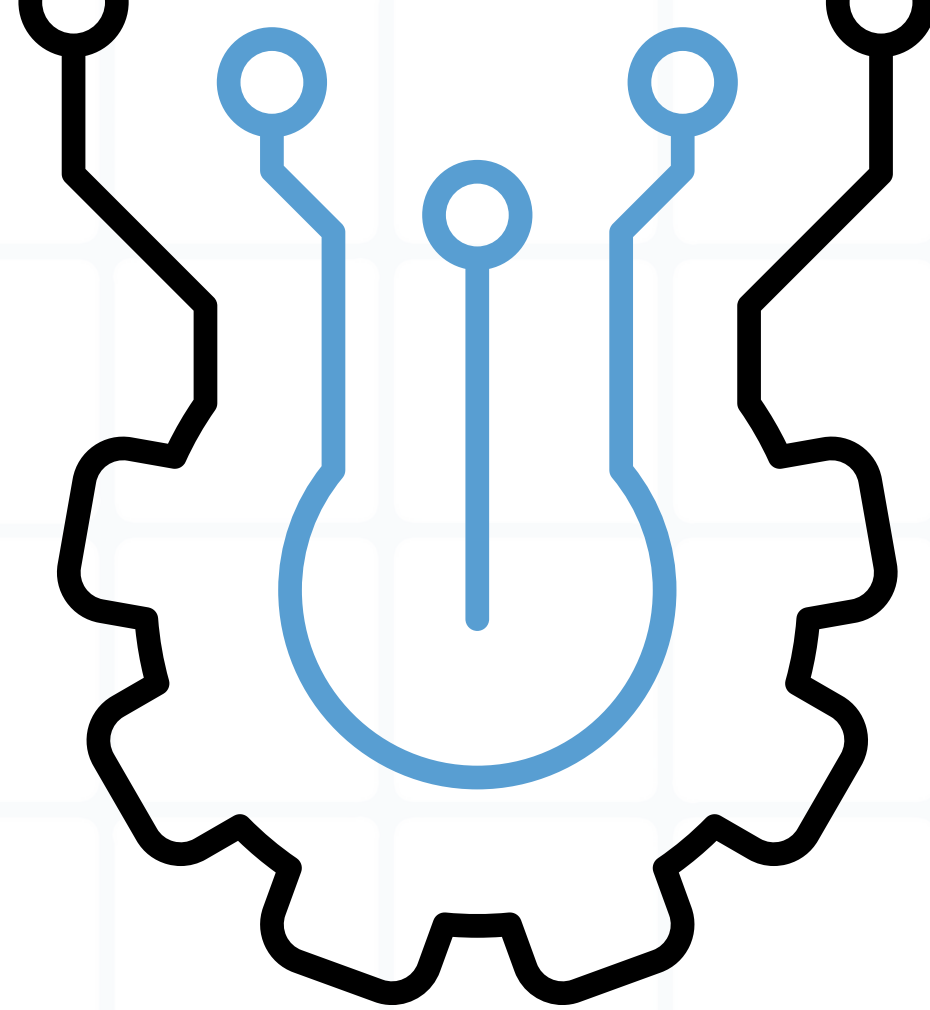
In this course we will brief about the components – Foam. Following points will be covered during the course with hands on Catia model.

- 1 – How many types of Foam are available
- 2 – Design Standard for Foam
- 3 – Methods of foam development/Manufacture
- 4 – Defects in Foam

After this Course followings questions you will be able to answer :

- 1 – Foam terminology?
- 2 – Globally used foam types?
- 3 – How to design a foam in Catia
- 4 – Different methods used globally to develop foam
- 5 – Different type of defects in foam

**Assignment :** 10 Quiz questions , CAD Development in Catia



## **WEEK 7-8**

# **COMPONENT DETAILS : HEADREST , PLASTICS, ARMREST ( 6 HOURS )**

## **COURSE CONTAIN :**

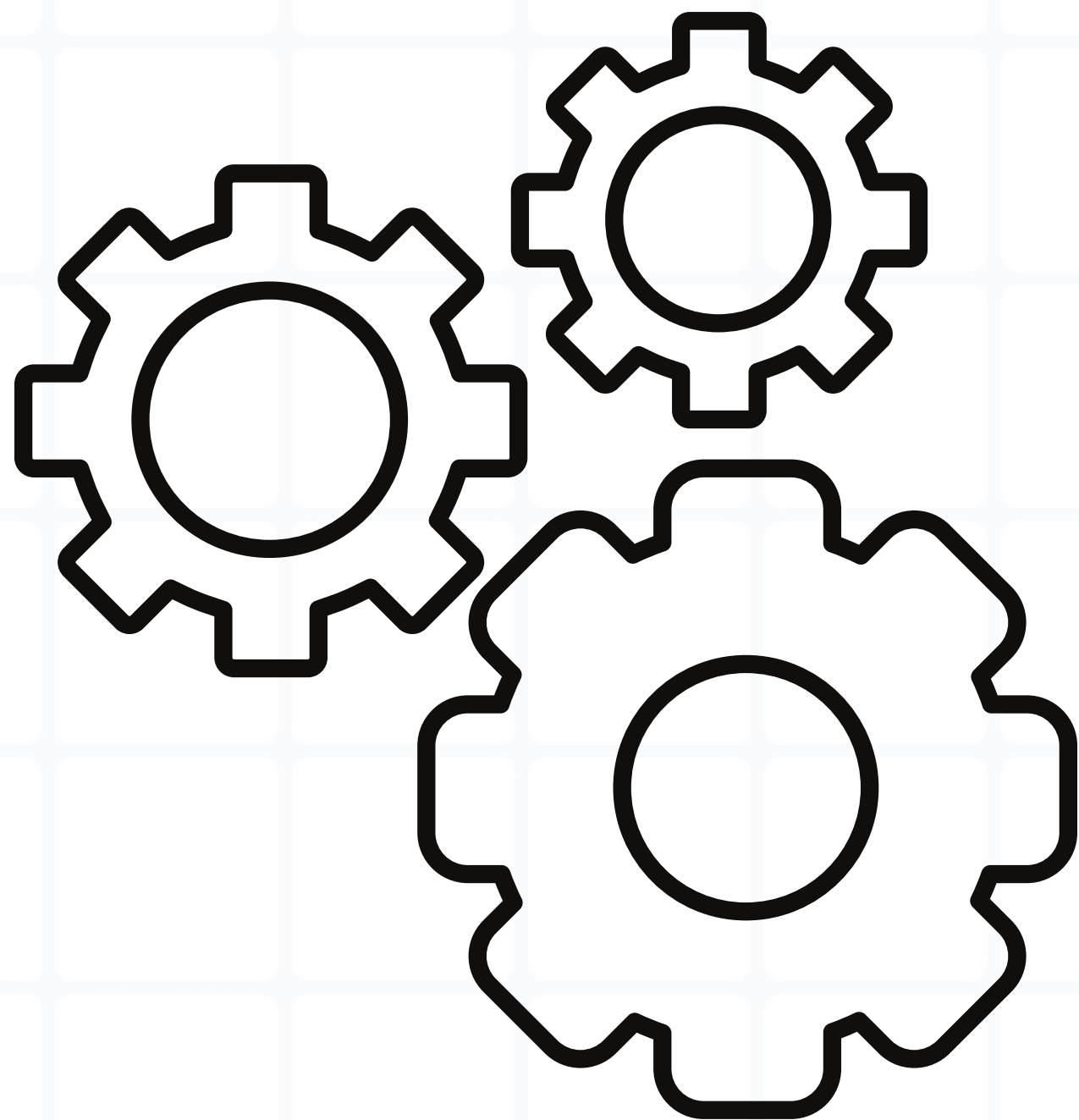
Course contain :

- 1 – Types of Headrest used in automotive seats.
- 2 – Components used in making headrest
- 3 – Use of Headrest
- 4 – Types of Plastic ( Material/Usage differentiation)
- 5 – Nomenclature of plastic parts in seat
- 6 – Efficient ways to use plastic in a seat
- 7 – Defects occur on plastic components
- 8 – Types of Armrest

After this Course followings questions you will be able to answer :

- 1 – How Headrest comes in Seats design?
- 2 – How many types of Headrest are available in automotive
- 3 – What is purpose of headrest?
- 4 – How we make a headrest?
- 5 – Defects on Headrest?
- 6 – Material used in Seat plastic?
- 7 – Defect identification in plastics?
- 8 – Type of Armrest used , Mechanism of an armrest, defects and components

**Assignment :** 10 Quiz questions



## **WEEK 9 – 10**

# **COMPONENT DETAILS MECHANISM ( 6 HOURS )**

In this course we will brief about details of all the mechanism used in an Automotive passenger seats including types of Mechanism used and nomenclature:

- 1 – Recliner – Work / Function and detail study
- 2 – Track – Work / Function and detail study
- 3 – Height Adjuster – Work / Function and detail study

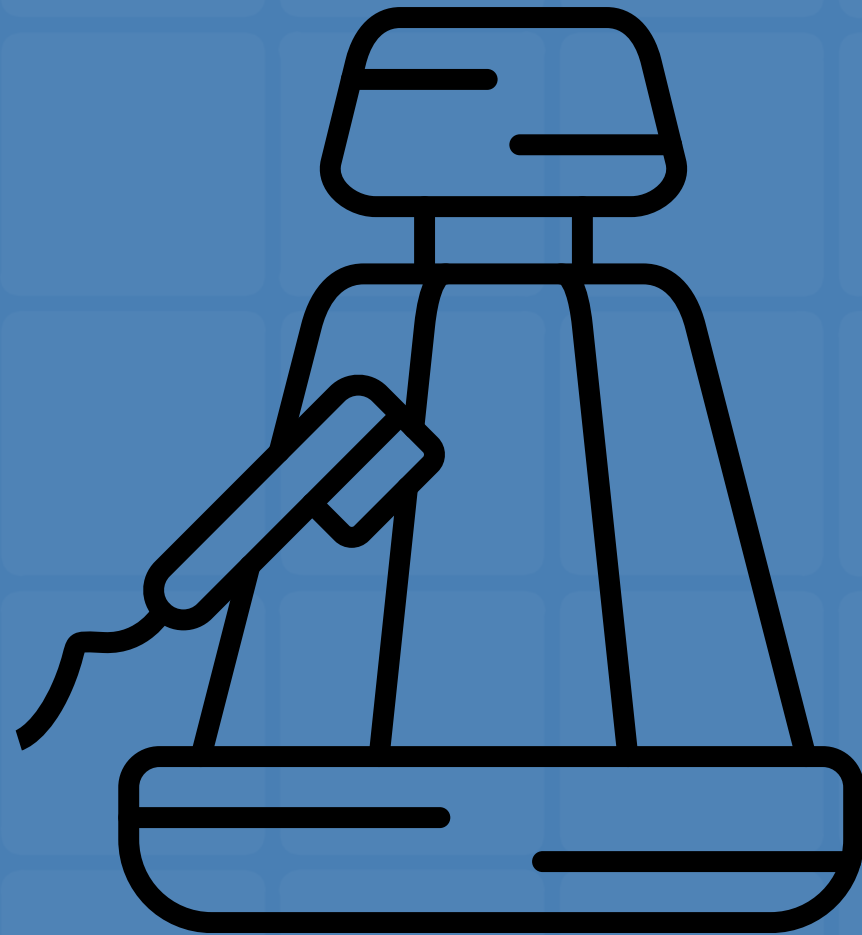
Followings questions you will be able to answer after the course completion:

- 1 – What are different mechanism and how it work ?
- 2 – Why mechanism is important for a seat
- 3 – Advance technology in mechanism

**Assignment :** 10 Quiz , CAD Development in Catia

# WEEK 11

## SEAT TESTING : ( 4 HOURS )



In this course will provide a glimpse of testing of seat at Car/Seat level which will include below :

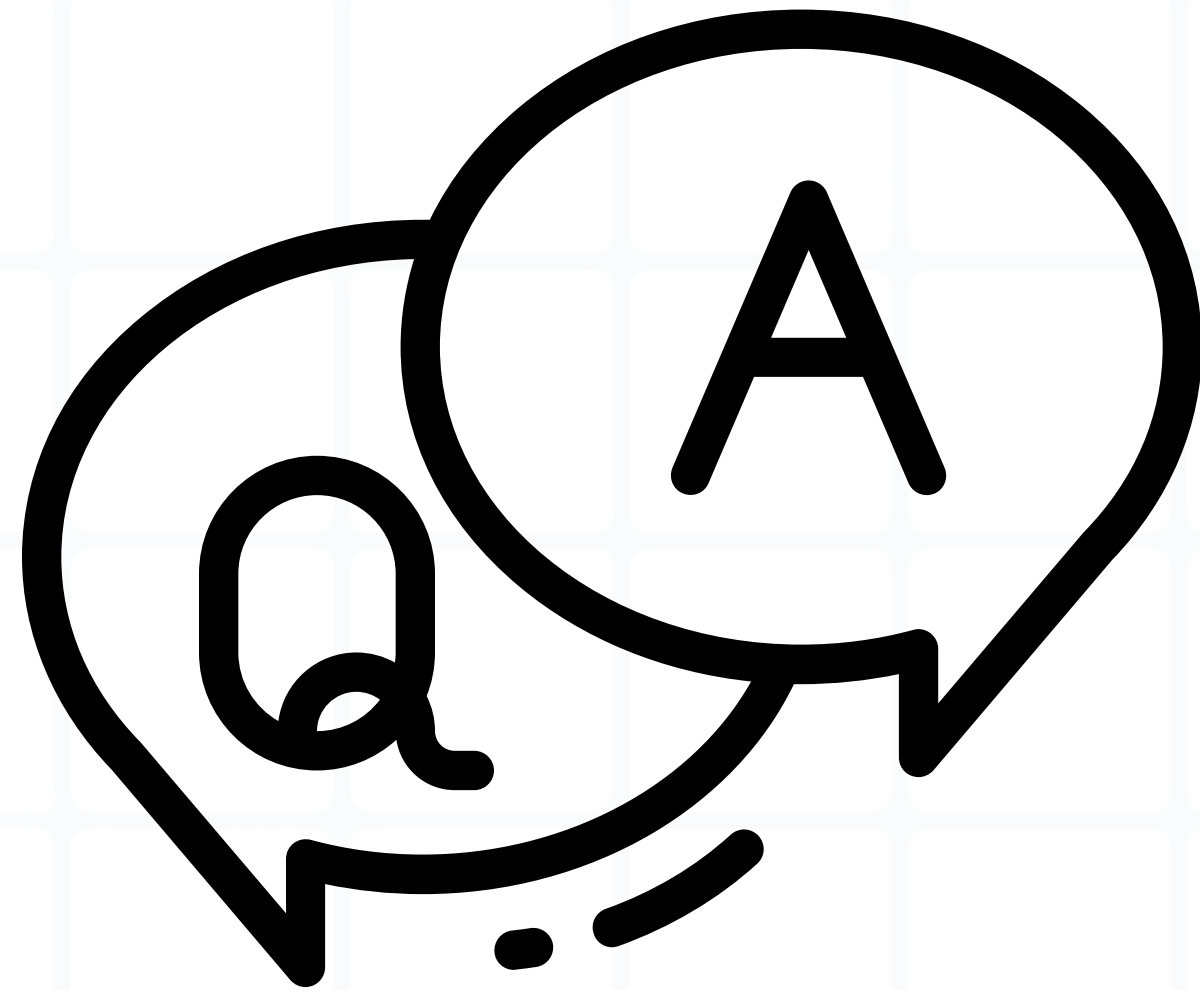
- 1 – Safety related Test
- 2 – Regulatory related Test

Followings questions you will be able to answer after the course completion:

- 1 – Names of different test for automotive passenger Cars

**Assignment : 10 Quiz , 1 Project to Complete**





## **WEEK 12**

### **DOUBTS & QUESTION ANSWERS**

About Trainer : Highly skilled professional working as a team lead having 13 + years of experience in Seating, GD&T, and Process. Experience working with various OEMs such as Renault, Honda, PSA Ford



## **COURSE DETAILS**

### **Seating Domain Training Course Details**

Duration 12 weeks

Weekend classes – Sat/Sun

Class duration – 2 hrs 30 mins

Fees – INR 14999