

Mechanical design and Product development process

This course covers the **process at an introductory level** covering all the **key concepts, ideas and details** from a **perspective of a Mechanical design engineer**.

The course is structured in a way as to build on the product development process step by step. From the way an Idea is generated, incubated, to how a concept is generated, evaluated, how specifications are created and set towards the system design of a product , followed by an overview of activities in Detailed design and prototyping.

You will learn

- Opportunity identification and product idea generation
- What are customer needs?
- What are specifications and when are they set ? how are they set?
- How are concepts generated?
- How to select and score concepts?
- Techniques for Generating ideas and concepts
- What is modularity? and difference between modular designs and integral designs
- What is product architecture along with the example of a Vehicle architecture
- Importance of the Engineering drawing in Detail design
- Design for X and Design for manufacturing and Assembly
- Types of prototypes and the purpose of prototyping

This course is for

- Mechanical engineering
- Product designers interested in mechanical systems

Course Duration

5 Days