Mechanical Skill Konnect – Online Mechanical Design Program

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Online Mechanical Design Program

“Learn Mechanical Design Skills from Anywhere”

What You Will Achieve

- Learn 3D modeling and 2D drafting
- Understand GD&T fundamentals
- Gain awareness of manufacturing processes
- Complete a final design project

Tools Covered

- SOLIDWORKS
- AutoCAD
- GD&T Basics
- AI Tools for Engineers

Program Highlights

- Structured online learning
- Practical design exercises
- Manufacturing process videos
- Final project for portfolio

Career Opportunities

- CAD Engineer
- Design Trainee
- Drafting Engineer

Who Can Join

- Diploma / BE / ITI Students
- Beginners in mechanical design
- Job seekers & career switchers

Important Note

This program focuses on design fundamentals and practical understanding. Learning outcomes depend on practice and active participation.

Module 1 – Engineering & Industry Foundation

- Role of Mechanical Engineers
- Industry Workflow Overview
- Engineering Drawing Reading
- Introduction to BOM

Module 2 – SolidWorks Core + Sheet Metal

- Sketching & 3D Modeling
- Assemblies & Drawing Generation
- Sheet Metal Design Basics
- Design Tables & Configurations

Module 3 – GD&T; Fundamentals

- Datum Systems
- Feature Control Frames
- Position Tolerance and Basic Applications

Module 4 – AutoCAD Professional

- 2D Drafting Commands
- Dimensioning & Annotation
- Layouts & Plotting

Module 5 – Electronics & Mechatronics Basic

- Fundamentals of voltage, current & power
- Industrial Motors (Induction, Servo, Stepper)
- Common Industrial Sensors
- CNC Control System Awareness
- Mechanical + Electrical System Integration Basics.

Module 6 – AI & Prompt Engineering Basics

- Fundamentals of Artificial Intelligence
- AI Tools for Students & Engineers
- Prompt Engineering
- AI in Mechanical Engineering Applications
- AI for Projects & Productivity

Manufacturing Awareness (Video Based)

- Lathe machining process explanation
- VMC machining cycle videos
- Laser cutting and sheet metal bending process
- EDM machining overview
- Welding process demonstrations

Final Design Project

- 3D modeling project
- 2D drawings with dimensions and GD&T;
- Basic manufacturing process selection