



Welcome to **NEXGENDESYN**

"We Train You to Become a Design Engineer, Not Just a CAD Engineer"

www.nexgenesyn.com

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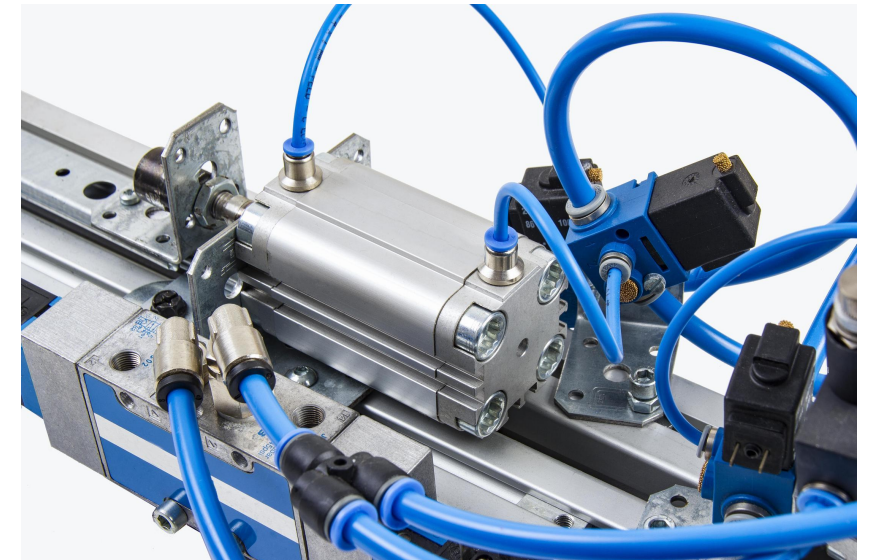
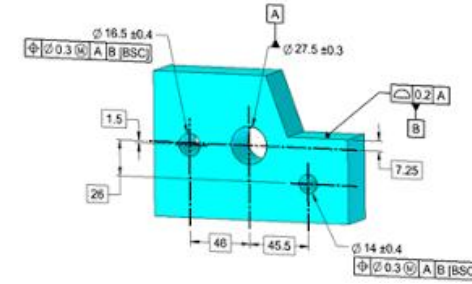
SPM Design Syllabus

Phase1: Design Calculations and CAD Software Training

Week 1-10: Design Calculations & CAD Software Training (Solidworks, CATIA, Inventor)



- SPM Concepts
- Mechanism Design
- Feasibility Analysis
- Screw Selection
- Slide Selection
- Actuator Selection
- Hydraulics & Pneumatics Forces Calculation
- Circuit Design
- Belt and Pulley Selection Calculation
- Bearing Selection
- Motor Selection
- Gearbox Selection
- GD&T (Geometric Dimensioning and Tolerancing)
- Stackup Analysis
- Cycle Time Calculation



Conveyor Design Syllabus



Phase1: Design Calculations and CAD Software Training

Week 1-10: Design Calculations & CAD Software Training (Solidworks, CATIA, Inventor)

Design Calculations

- Load Calculation
- Belt Selection
- Motor and Drive Selection
- Pulley and Idler Design
- Tension Calculation
- chain and Pully Selection
- Belt Tensioning Methods
- Speed Calculation
- Frame and Structure Design
- Roller and Support Design
- Guarding and Safety Design
- Motor Selection
- Gearbox Selection
- Screw Conveyor Design
- GD and T
- Stackup Analysis



Project Phase:

Week 10-18: Project Assignment and Guidance

- Assign individual or group projects based on industry-relevant problems
- Weekly project review and feedback sessions
- Continuous guidance and support

Week 18-20: Project Completion and Interview Preparation

- Finalize and present the first project
- Detailed review and feedback
- Interview Preparation:
- Resume building and portfolio creation
- Mock interviews and soft skills training
- Industry-specific interview questions and tips



Placement Phase:

Week 12-Till Placement:Multiple Projects and Placement Assistance

- Assign additional projects to enhance skills and experience
- Provide continuous Interview calls, guidance and support
- Encourage innovation and problem-solving
- Placement Assistance:
- Schedule interviews with partner companies
- Provide references and recommendations
- Ongoing support until successful placement



Contact us...



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