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Mechanical

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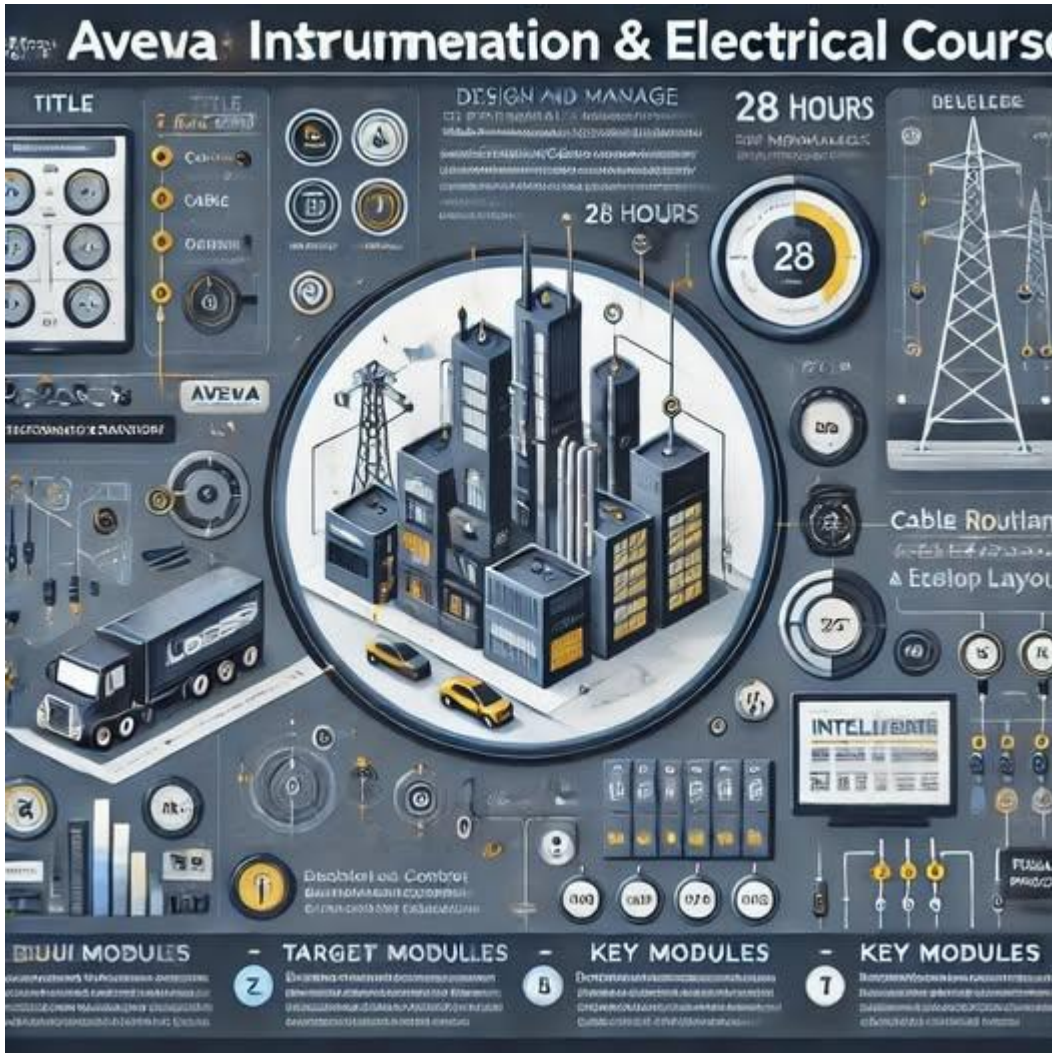
EOTSS/CIVIL/2010-MECH /2025

Engineering office for Technology and Software Services



المعهد الهندسي لخدمات التكنولوجيا والبرمجيات

AVEVA Instrumentation & Electrical Course



Code: 2011-MECH

Duration: 28 Hours

Level: Intermediate to Advanced

Target Audience: Electrical, Control, and Instrumentation Engineers

Course Objectives:

Main Branch: United building – E Shams –Front NBE
, El Siouf _Alexandria

Tel: 01102060500-01144470856



الفرع الرئيسي :عمارات المتحدة – عمارة عين شمس – امام البنك
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المكتب الهندسي لخدمات التكنولوجيا والبرمجيات



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Design intelligent electrical and instrumentation systems
Create loop diagrams, panel layouts, and cable routing
Generate intelligent documentation and reports

Modules:

System Overview and Interface
Cable and Raceway Design
Loop Diagrams and Control Systems
Panel Design and I/O Assignment
Wiring and Interconnections
Reporting and Documentation
Integration with 3D Models (PDMS/E3D)
Final Electrical Design Project

Outline:

Module 1: Interface overview and system structure
Module 2: Instrumentation loop creation
Module 3: Electrical panel design
Module 4: Cable routing and raceway systems
Module 5: I/O assignments and device tagging
Module 6: Report generation (wiring lists, BOMs)
Module 7: Integration with 3D design systems
Module 8: Final electrical & instrumentation project

Outcomes:

Design intelligent control and electrical systems
Create loop diagrams and panel schematics
Automate generation of reports and documentation
Integrate electrical systems with E3D/PDMS

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