

Training Course Titles

Offered by ISC Consultants Limited and Grimble Consultancies Limited. The number of days can be tailored to company needs and courses presented at company premises or can be presented virtually to different international sites of a company or in a self-training on-demand form.

Introductory Fundamentals Level

- Introduction to Artificial Intelligence and Machine Learning in Control
- Introduction to the Design of Model Predictive Controllers and Guidelines for Effective Implementation
- Control Fundamentals I - Introduction to basics of Control Systems
- Control Fundamentals II- More advanced on Basic Concepts in Control Engineering
- Control Engineering Practice - Basic Course with Applications Focus
- Introduction to PID Control Design and Tuning
- Control Systems Design for Servosystems
- Power Systems Control - Generation, Nuclear and Renewable
- Introduction to Process Control
- Introduction to Wind Turbine Control
- Control Fundamentals for Automotive Applications – A Self-Study Course.
- AI and Machine Learning for Control and Signal Processing Applications

Intermediate Level

- Role of Artificial Intelligence and Machine Learning in Advanced Control and Estimation
- Modelling, Kalman Filtering, Optimal and Predictive Control
- Overview of Modern Control and Optimization Methods
- Optimal Control and Optimization and Methods
- Robust Multivariable Control for Aerospace Applications
- Modelling, Identification and Parameter Estimation Methods
- Estimation and Kalman Filtering Techniques
- Multivariable and Optimal Control Systems Design Methods
- Fundamentals of Nonlinear Systems Modelling and Control
- Linear and Nonlinear Predictive Control and Applications
- Digital Control and Processing (includes MV, GMV and Predictive Laws)
- Introduction to Neural Networks, Fuzzy Control and Global Optimization
- Wind Turbine Control (Part 1 = Individual Turbines) or (Part 2 = Wind Farms)
- Modelling Rolling Mill Processes for Improved Control
- Benchmarking Controllers and Automatic Tuning
- AI and Machine Learning for use with Model Based Optimal and Predictive Controls

Advanced Level

- Model Predictive Control Methods and Applications
- Estimation and Kalman Filtering Techniques
- Robust Optimal and Predictive Control Systems Design Methods
- Nonlinear Systems Modelling and Control Design
- System Identification, Fault Detection and Adaptive Control
- System Identification Methods for Linear and Nonlinear Systems
- Filtering and Prediction for Linear and Nonlinear Systems
- Advanced Robust Multivariable Control and Stochastic Systems
- Wind Turbine Control Course on Robust Control and Stochastic Systems
- Signal Processing for Control Applications and Condition Monitoring
- Advanced Control for Hot and Cold Rolling Mills
- Nonlinear Predictive Control for Automotive Applications
- Control of Autonomous Vehicles and Use of AI and Machine Learning
- Electric, Hydrogen and Hybrid Road Vehicle and Heavy-duty Vehicle Modelling and Control
- AI and Machine Learning for Automotive Applications – Battery estimation, Energy Management