

- seminars
- → consultancy and case studies





## **Control Fundamentals Theory and Practice**

## Agenda (2-days Course)

Day 1:	Introduction to Systems and Modeling
09.00	REGISTRATION
09.15	Introduction to the Course - "The Need for Control"
10.00	Linear Systems and their representation (Transfer Function and State Space Models)
11.15	TEA/COFFEE
11.30	Frequency Response Analysis (Bode, Nichols and Nyquist)
12.30	LUNCH
13.15	Hands-On Session:
	Introduction to Matlab/Simulink and Linear Systems Representation
14.30	Fundamentals of Modelling, System Identification and Simulation
15.30	Tea/Coffee
15.45	Hands-On Session: Modelling for Controller Design
17.00	CLOSE
Day 2:	Classical Control Design and Practical Aspect
09.00	Fundamentals of Feedback Control Design
10.00	Hands-On Session: Control Fundamentals
10.45	Tea/Coffee
11.00	PID Controller Design and Simple Tuning Methods
12.30	LUNCH
13.15	Hands-On Session: PID Control Design and Tuning
14.00	Frequency Domain Control Design
	(incl. Lead-Lag & Root Locus Compensation)
14.45	Enhanced Control Designs
15. <b>4</b> 5	TEA/COFFEE
16.00	Discrete-Time Modelling and Control Representation
17.00	CLOSE





