industry cross-fertilisation
seminars

 industry cross to an
technology transfer
training consultancy and case studies

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Control Fundamentals Theory and Practice

Agenda (2-day Course)

Day 1: Introduction to Systems and Modeling

- 09.00 REGISTRATION
- 09.30 Introduction to the Course - "The Need for Control"
- Linear Systems and their representation 10.00
- (Transfer Function and State Space Models)
- 11.15 TEA/COFFEE
- **Frequency Response Analysis** 11.30
- (Bode, Nichols and Nyquist)
- 12.30 LUNCH
- Hands-On Session: 13.15 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
- **PID Controller Design and Simple Tuning Methods** 11.00
- 12.30 LUNCH
- 13.15 Hands-On Session: PID Control Design and Tuning
- **Frequency Domain Control Design** 14.00
- (incl. Lead-Lag & Root Locus Compensation)
- 14.45 **Discrete-Time Modelling and Control Representation**
- 15.45 TEA/COFFEE
- 16.00 Hands-On Session: Practical Aspects in Control
- 17.00 CLOSE