

- industry cross-fertilisation
- technology transfer
- industry forum
- seminars
- consultancy and case studies
- training

Introduction to Robust and Multivariable Control Design (3-day Course) Agenda

Day 1

- 8.00 Introduction to State Space Modeling
- 9.00 MIMO Control and Stability (part 1)
- 9.30 Tea/Coffee
- 9.45 MIMO Control and Stability (part 2)
- 10.30 State Feedback and Pole Placement
- 11.30 Lunch
- 12.30 Observers
- 13.15 Introduction to Estimation and Kalman Filtering
- 14.45 Tea/Coffee
- 15.00 Hands-On Session on Pole Placement
- 16.00 Close

Day 2

- 8.00 Introduction to LQR and LQG Optimal Control
- 9.15 Loop Transfer Recovery
- 9.45 Tea/Coffee
- 10.00 Hands-On session on LQR and LQG
- 11.00 Robust Control (part 1)
- 11.30 Lunch
- 12.30 Robust Control (part 2)
- 13.00 H-infinity Robust Control (part 1)
- 13.45 Tea/Coffee
- 14.00 H-infinity Robust Control (part 2)
- 14.45 Hands-on Example on H-infinity
- 16.00 Close

Day 3

- 8.00 Mu Analysis and Synthesis
- 9.00 Introduction to Minimum Variance Control
- 9.45 Tea/Coffee
- 10.00 LQG/GMV Restricted Structure Controller Tuning and Benchmarking
- 11.00 Hands-On RS Control
- 11.30 Lunch
- 12.30 Generalized Predictive Control
- 13:30 Non-Linear Predictive Control
- 14.30 Tea/Coffee
- 14.45 Hands-On session on Predictive Control
- 16.00 Course Ends

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ISC Limited
50 George Street
Glasgow G1 1QE
Scotland UK

t +44 (0) 141 553 1111
f +44 (0) 141 553 1232
e actcmail@actc-control.com
w www.actc-control.com

Applied Control Technology Consortium is wholly owned
and managed by Industrial Systems and Control Ltd.
Registered in Scotland 105188

