

MSc Control and Optimisation - Module Selection Guidelines 2024-2025

You must be examined in exactly 8 optional modules for this course. You can only choose up to 8 optional modules in total.

You choose, in addition to the two core modules (lab and research project), a total of 8 optional modules which includes 4 elective modules from Group A, 3 electives from Group B, and 1 elective module from Group (C). You will be guided by your personal tutors in selecting elective modules.

Elective A – [Follow this link for Elective A \(CORE\) module details](#)

These rules only allow FOUR modules to be selected from Elective A modules.

ELEC70089	Control Engineering
ELEC70006	Design of Linear Multivariable Control Systems
ELEC70090	Digital Control Systems
ELEC70091	Stability and Control of Nonlinear Systems
ELEC70098	Optimisation
ELEC70028	Predictive Control
ELEC70092	Systems Identification and Learning

Elective B – [Follow this link for Elective B module details](#)

These rules only allow THREE modules to be selected from Elective B modules.

ELEC70065	Optimal Control
ELEC70009	Discrete-Event systems
ELEC70048	Probability and Stochastic Processes
ELEC70022	Modelling and Control of Multi-body Mechanical Systems
ELEC70074	Power System Dynamics, Stability and Control
ELEC70086	Topics in Control Systems
ELEC70082	Distributed Optimisation and Learning
ELEC70066	Applied Advanced Optimisation

Elective C – [Follow this link for Elective C module details](#)

These rules only allow ONE module to be selected from Elective C modules.

ELEC70039	Wavelets, Representation Learning and their Applications
ELEC70067	Traffic Theory and Queuing Systems
ELEC70069	Cryptography and Coding Theory
ELEC70070	Information Theory
ELEC70072	Real-time Digital Signal Processing
ELEC70073	Computer Vision and Pattern Recognition
ELEC70136	Game Theory for Multi-Agent Decision Making