**MSc Control and Optimisation - Module Selection Guidelines 2022-2023**

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

You MUST choose at least 4 CORE modules from **Elective A**.

The remaining elective modules can be chosen from **Elective B** and **Elective C**. However, only ONE of your chosen elective modules can be picked from **Elective C**.

Examples of how your choices could be structured:

Student 1: 4 CORE from **Elective A** plus 4 modules from **Elective B**

Student 2: 4 CORE modules from **Elective A** plus 3 modules from **Elective B** and 1 module from **Elective C**

Student 3: 5 CORE modules from **Elective A** plus 2 modules from **Elective B** and 1 module form **Elective C**

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| **Elective A –** [**Follow this link for Elective A (CORE) module details**](http://intranet.ee.ic.ac.uk/electricalengineering/eecourses_t4/crslistpg.asp?c=C1) |
| ELEC70089  | Control Engineering |
| ELEC70006  | Design of Linear Multivariable Control Systems |
| ELEC70091 | Stability and Control of Nonlinear Systems |
| ELEC70098  | Optimization |
| ELEC70028 | Predictive Control |
| ELEC70092  | Systems Identification and Learning |

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| **Elective B –** [**Follow this link for Elective B module details**](http://intranet.ee.ic.ac.uk/electricalengineering/eecourses_t4/crslistpg.asp?c=C1) |
| 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 Optimization (Vlaski) |

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| **Elective C –** [**Follow this link for Elective C module details**](http://intranet.ee.ic.ac.uk/electricalengineering/eecourses_t4/crslistpg.asp?c=C1)The 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 |

 Updated by RR on 14 Aug 2023