**MSc (FHEQ Level 7) 2024-25**

 **Electronic and Electrical Engineering - January Start**

**Coordinator: Dr T Maffeis**

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| **Jan-June 24-25** | **September-Jan 25-26** |
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| **EG-M190****Social, environmental and economic context of research**  **10 Credits****Dr IM Aldous/Prof S Margadonna** **CORE** | **EGTM79****Environmental Analysis and Legislation****10 Credits****Dr GTM Bunting****CORE** |
| **AT-M76****Radio and Optical Wireless Communications****10 Credits****Prof L Li/Prof A Mehta**  |  **AT-M80** **Optical Fibre Communications** **10 credits****Dr K Ennser** |
| **CORE** |  **CORE** |
|  | **EGLM02** **Advanced Power Electronics and Drives****10 Credits****Dr Z Zhou****CORE** |
| **EGNM09** |
|  **Micro and Nano Electro-Mechanical Systems** **Prof Lijie Li****10 Credits** **CORE** |
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| **EG-M47** | **EGTM71** |
| **Business Leadership for Engineers** |  **Power Generation Systems** |
| **Dr V Samaras** | **Prof I Masters** |
| **10 credits** | **10 credits** |
| **CORE** | **CORE** |
| **EGLM06****Sustainable Energy and Power Electronics Laboratory****10 Credits Dr Z Zhou** **CORE** | **EGNM04****Nanoscale Structures and Devices** **Dr TGG Maffeis/Prof KS Teng****10 credits** **CORE**  |
|  |
| **Research Project** |
| **EG-D05****MSc Dissertation - Electrical Engineering****60 Credits** **Dr M Fazeli** |
| **Total 180 Credits** |

# Optional Modules

Choose exactly 10 credits

Choose exactly 10 credits from Options in Jan-June (TB2). If the guidance notes apply please speak with the MSc Coordinator for advice.

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| **EGLM01** | Wide-band-gap Semiconductors | Dr TGG Maffeis/Prof OJ Guy | TB2 | 10 | CORE |
| **EGLM03** | Modern Control Systems | Dr Chris Jobling | TB2 |  | CORE |
| **EGLM05** | Advanced Power Systems | Dr M Fazeli | TB2 | 10 | CORE |
| **EG-M191** | Internet of Things: Principles and Practice | Dr JW Jason | TB2 | 10 | CORE |

# And

Choose exactly 10 credits

 Choose exactly 10 credits from Options in September-Jan (TB1).

If the guidance notes apply please speak with the MSc Coordinator for advice.

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| **EG- M125** | Advanced Optical Materials and Devices | Dr WC Tsoi | TB1 | 10 | CORE |
| **EGLM00** | PowerSemiconductor Devices | Prof MR Jennings | TB1 | 10 | CORE |
| **EGLM07** | Power Systems with Project | Dr M Fazeli | TB1 | 10 | CORE |