Semester 1 Mathematics, Physics and Electrical Engineering Modules for 2023/2024

Subject Area	Module and Code	Level	UK Credits	ECTS
Electrical Engineering	KD5065 C programming and digital systems	5	20	10
Electrical Engineering	KD5066 Communication Systems	5	20	10
Electrical Engineering	KD6026 Digital Signal Processing	6	20	10
Electrical Engineering	KD6010 Power systems	6	20	10
Electrical Engineering	KD6027 Embedded Systems	6	20	10
Electrical Engineering	KD6029 Wireless and RF systems Design	6	20	10
Mathematics (service module for engineers)	KC5002 Advanced Engineering Mathematics	5	20	10
Mathematics	KC5008 Ordinary and Partial differential equations	5	20	10
Mathematics	KL5004 Complex Variables	5	20	10
Mathematics	KL5005 Statistical modelling and Data Visualisation	5	20	10
Mathematics	KC6007 Mathematical cryptology	6	20	10
Mathematics	KC6029 Advanced statistical methods	6	20	10
Mathematics	KL6001 Optimisation and decision analytics	6	20	10
Mathematics	KL6002 Methods of Applied Maths	6	20	10
Mathematics	KE6030 Geophysical Dynamics	6	20	10
Physics/Physics with Astrophysics	KC5028 Adv. Mathematics for Physics	5	20	10
Physics/Physics with Astrophysics	KD5081 Theory, Computation and Experiment	5	20	10
Physics/Physics with Astrophysics	KD5083 Semi-conductor Physics	5	20	10
Physics/Physics with Astrophysics	KC6033 Solar Physics	6	20	10
Physics/Physics with Astrophysics	KD6041 Quantum Devices	6	20	10
Physics/Physics with Astrophysics	KD6042 Advanced Photovoltaics	6	20	10