

## Semester 1 Mathematics, Physics and Electrical Engineering Modules for 2024/2025

Subject Area	Module and Code	UK Credits	ECTS
Electrical Engineering	KD5065 C programming and digital systems	20	10
Electrical Engineering	KD5066 Communication Systems	20	10
Electrical Engineering	KD6026 Digital Signal Processing	20	10
Electrical Engineering	KD6010 Power systems	20	10
Electrical Engineering	KD6027 Embedded Systems	20	10
Electrical Engineering	KD6029 Wireless and RF systems Design	20	10
Mathematics (service module for engineers)	KC5002 Advanced Engineering Mathematics	20	10
Mathematics	KC5008 Ordinary and Partial differential equations	20	10
Mathematics	KL5004 Complex Variables	20	10
Mathematics	KL5005 Statistical modelling and Data Visualisation	20	10
Mathematics	KC6029 Advanced statistical methods	20	10
Mathematics	KL6002 Methods of Applied Maths	20	10
Mathematics	KE6030 Geophysical Dynamics	20	10
Mathematics	KL6000 Data Science	20	10
Physics/Physics with Astrophysics	KC5028 Adv. Mathematics for Physics	20	10
Physics/Physics with Astrophysics	KD5081 Theory, Computation and Experiment	20	10
Physics/Physics with Astrophysics	KD5083 Semi-conductor Physics	20	10
Physics/Physics with Astrophysics	KC6033 Solar Physics	20	10
Physics/Physics with Astrophysics	KD6041 Quantum Devices	20	10
Physics/Physics with Astrophysics	KD6042 Advanced Photovoltaics	20	10