

Mathematics, Physics and Electrical Engineering Modules for 2025/2026

Code	Module Name	Semester/Year Long	Special Requirements	Credits	Subject
Level 5					
KD5065	Programming and digital systems	Semester 1		20	Electrical Engineering
KD5066	Communication Systems	Semester 1		20	Electrical Engineering
KC5002	Advanced Engineering Mathematics	Semester 1		20	Mathematics
KC5008	Ordinary and Partial differential equations	Semester 1		20	Mathematics
KL5004	Complex Variables	Semester 1		20	Mathematics
KL5005	Statistical modelling and Data Visualisation	Semester 1		20	Mathematics
KC5028	Advanced Mathematics for Physics	Semester 1		20	Physics/Physics with Astrophysics
KD5081	Theory, Computation and Experiment	Semester 1		20	Physics/Physics with Astrophysics
KD5083	Semiconductor Physics	Semester 1		20	Physics/Physics with Astrophysics
KD5067	Power, Machines and Renewable Energy	Semester 2		20	Electrical Engineering
KD5064	Analog and Instrumentation	Semester 2		20	Electrical Engineering
KD5080	Electrical Product Development	Semester 2		20	Electrical Engineering
KC5000	Further Computational Mathematics	Semester 2		20	Mathematics
KC5001	Applied Statistical Methods	Semester 2		20	Mathematics
KC5009	Vector Calculus and further dynamics	Semester 2		20	Mathematics
KC5029	Space-time and Electromagnetism	Semester 2		20	Physics/Physics with Astrophysics
KD5082	Quantum Universe	Semester 2		20	Physics/Physics with Astrophysics

KD5084	Thermal and Nuclear Energy	Semester 2		20	Physics/Physics with Astrophysics
Level 6					
KD6026	Digital Signal Processing	Semester 1		20	Electrical Engineering
KD6010	Power systems	Semester 1		20	Electrical Engineering
KD6027	Embedded Systems	Semester 1		20	Electrical Engineering
KD6029	Wireless and RF systems Design	Semester 1		20	Electrical Engineering
KD6069	Smart Energy Systems	Semester 1		20	Electrical Engineering
KC6029	Advanced statistical methods	Semester 1		20	Mathematics
KL6002	Methods of Applied Maths	Semester 1		20	Mathematics
KE6030	Geophysical Dynamics	Semester 1		20	Mathematics
KL6000	Data Science	Semester 1		20	Mathematics
KC6033	Solar Physics	Semester 1		20	Physics/Physics with Astrophysics
KD6041	Quantum Devices	Semester 1		20	Physics/Physics with Astrophysics
KD6042	Advanced Photovoltaics	Semester 1		20	Physics/Physics with Astrophysics
KD6025	Design and Manufacture Analysis	Semester 2		20	Electrical Engineering
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KD6030	Optical Communication and System Design	Semester 2		20	Electrical Engineering
KD6031	Instrumentation and Control of Dynamical Systems	Semester 2		20	Electrical Engineering/Physics/Physics with Astrophysics
KL6068	Satellite Systems and Space Environment	Semester 2		20	Electrical Engineering
KC6001	Financial Mathematics	Semester 2		20	Mathematics

KC6030	Medical Statistics	Semester 2		20	Mathematics
KC6027	Fluid Dynamics	Semester 2		20	Mathematics
KC6028	Dynamical Systems	Semester 2		20	Mathematics
KC6032	Cosmology and Stellar Evolution	Semester 2		20	Physics/Physics with Astrophysics
KC6027	Fluid Dynamics	Semester 2		20	Physics/Physics with Astrophysics
KC6028	Dynamical Systems	Semester 2		20	Physics/Physics with Astrophysics
KD6030	Optical Communication and System Design	Semester 2		20	Physics/Physics with Astrophysics
KL6068	Satellite Systems and Space Environment	Semester 2		20	Physics/Physics with Astrophysics