

Overview of Year 3 programme in 2024-2025 academic year.

Degree Programme	Core Module	Compulsory Module	FHEQ6 Electives	FHEQ7 Electives (maximum of one module)	Degree requirement
BSc (F300)	NPP, SS, Comp	Lab3, Project	ACP, ASP(T), CP(T), DSci, FQM(T), GT(T), MIR, LS, Plas, PI, SM(T)	APP(T), H, ATM, COS, Efp, GR(T), IT, LT, CDP, OCP, QFT(T), QI(T), QO, QTM(T), SP, U(T)	Need 20-22.5 ECTS Electives
BSc Theory (F325)	NPP, SS, Comp, ACP	Project	ASP(T), CP(T), DSci, FQM(T), GT(T), MIR, LS, Plas, PI, SM(T)	APP(T), H, ATM, COS, Efp, GR(T), IT, LT, CDP, OCP, QFT(T), QI(T), QO, QTM(T), SP, U(T)	Need 20-22.5 ECTS Electives Requires minimum of 15ECTS in Theory option
MSci (F303)	NPP, SS, Comp	Lab3	ACP, ASP(T), CP(T), DSci, FQM(T), GT(T), MIR, LS, Plas, PI, SM(T), Project	APP(T), H, ATM, COS, Efp, GR(T), IT, LT, CDP, OCP, QFT(T), QI(T), QO, QTM(T), SP, U(T)	Need 27.5-30 ECTS Electives. Requires minimum 60ECTS @FHEQ7 across Y3/Y4.
MSci Theory (F390)	NPP, SS, Comp, ACP		ASP(T), CP(T), DSci, FQM(T), GT(T), MIR, LS, Plas, PI, SM(T), Project	APP(T), H, ATM, COS, Efp, GR(T), IT, LT, CDP, OCP, QFT(T), QI(T), QO, QTM(T), SP, U(T)	Need 27.5-30 ECTS Electives. Requires minimum of 7.5 ECTS in Theory option in Y3 & 37.5ECTS across Y3/Y4. Requires minimum 60ECTS @FHEQ7 across Y3/Y4

Credit for modules: 5ECTS, 7.5ECTS, 15ECTS

Core module: Must take in Y3, must pass module at 40%.

Compulsory modules: Must take in Y3, module pass mark 40%.

Elective modules: Must have total credits required by the programme. FHEQ 6: pass mark 40%; FHEQ 7: pass mark 50%. Compensated pass may be granted.

Maximum of one FHEQ7 module subject to departmental agreement.

<p>NPP: Nuclear & Particle Physics SS: Solid State Physics Comp: Comprehensives Project: Project (Experimental, Computational, Theoretical, Essay) ACP: Advanced Classical Physics H: Hydrodynamics APP: Advanced Particle Physics ASP: Astrophysics ATM: Atmospheric Physics CP: Computational Physics CDP: Concepts in Device Physics COS: Cosmology DSci: Data Science for Physics EfP: Entrepreneurship for Physicists FQM: Foundations of Quantum Mechanics GT: Group Theory</p>	<p>GT: General Relativity IT: Information Theory MIR: Physics of Medical Imaging and Radiotherapy LS: Lasers LT: Laser Technology OCP: Optical Communications PI: Principle of Instrumentation PLAS: Plasma Physics QFT: Quantum Field Theory¹ QI: Quantum Information² QO: Quantum Optics QTM: Quantum Theory of Matter SM: Statistical Mechanics SP: Space Physics U: Unification³</p>
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¹ Normally ACP and FQM must be taken in Year 3 to take QFT in Year 4

² Normally FQM must be taken in Year 3 to take QI in Year 4

³ Normally ACP, FQM must be taken in Year 3, and QFT in Year 4 to take Unification in Year 4