## **FULL LIST OF MODULES FOR YEAR 3 STUDENTS FOR 2024-25**

YEAR 3 STUDENTS					
Level 6 Elective Modules Avaialble					
Automotive Design with Motorsport					
Computational Continuum Mechanics A					
Embedded C for Microcontrollers A (autumn iteration)					
Embedded C for Microcontrollers A (spring iteration)					
Equality, Diversity and Inclusion in Engineering A					
Finite Element Analysis and Applications A					
Fracture Mechanics A					
Fluid Mechanics 3A					
Machine Dynamics and Vibrations A					
Manufacturing Technology and Management A					
Mathematics A					
Mechatronics 3A					
Nuclear Chemical Engineering* (H3H8 and H3G2 only)					
Introduction to Nuclear Energy A*					
Stress Analysis 3A					
Structure, Properties and Analysis of Polymers A					
Statistics A					
Thermodynamics 3A					
Tribology A					
(BPES) Business Economics OR Managerial Economics Online					
(BPES) Entrepreneurship OR Entrepreneurship Online					
(BPES) Finance & Financial Management OR Corporate Finance Online					

## ALL STUDENTS

\* compulsory if you are on the MEng in Mechanical with Nuclear Engineering Stream (H3H8 or

Please read the key below carefuly to help you understand which modules you can choose and when/how they are examined.

KEY
runs autumn only
runs spring only
two term module
capped modules
<u>In term assessment</u>
January exam

## Predicted Modules for Year 4 (2025-2026)

modules	Level 7 Elective Modules Available (modules on the same lines have Exam Clashes and cannot be chosen together)			
	Computational Continuum Mechanics B			
	Embedded C for Microcontrollers B (autumn iteration)  Embedded C for Microcontrollers B (spring iteration)			
	Equality, Diversity and Inclusion in Engineering B (Level 7)			
	Finite Element Analysis and Applications B			
	Fracture Mechanics B			
	Fluid Mechanics 3B			
	Manufacturing Technology and Management B			
	Mathematics B			
	Mechatronics 3B			
	Stress Analysis 3B			
	Introduction to Nuclear Energy B	(IDX) Nuclear Materials 1* (MATE)	(IDX) Modelling and control of multi-body mechanical systems (EEE)	
	Structure, Properties and Analysis of Polymers B			
	Statistics B			
	Tribology B			
	Advanced Control			
	Advanced Numerical Methods for Engineers			
	Advanced Stress Analysis			
	Applied Vibration Technology			
	Computational Fluid Dynamics			
	Design Art Creativity			
	Combustion Safety and Fire Dynamics	(IDX) Human neuron	nechanical control and learning (BIOE)	
	Energy Systems			
Fluid Mechanics 3A	Environmental and Applied Fluid Dynamics			
Mechatronics 3A	Introduction to Robotics			
	Machine Learning			
	Interfacing and Data Processing			
Intro to Nuclear Energy A	Nuclear Reactor Physics*	(IDX) Sustainable electrical systems (EEE)	(IDX) Advanced Optimisation (EEE)	
Intro to Nuclear Energy A	Nuclear Thermal Hydraulics*	(ID	K) Optimisation (EEE)	
H3H8/H3G2 Programme	Nuclear Fusion (MATE) NEW			
	<u>Sustainable Engineering Design NEW</u>			
	(IDX) Applications of Fluid Dynamics (AERO) NEW			
	(IDX) Biomaterials for Bioengineers (BIOE)			

## Level 7 Advanced Application (AA) Modules (you take 1)

(AA course) Aircraft Engine Technology

(AA course) Future Clean Transport Technology

(AA course) Metal Processing Technology

(AA course) Mechanical Transmissions Technology

You may not take a B Variant of a module where you have already taken the A Variant.

No more than 2 IDX modules in Year 4.