

## B.Eng. (Hons) Electrical & Electronic Engineering

### Mode of study

BEng Full Time: 3 years.

### Level 4

Compulsory Modules Module Title	Module Code	Credit Points	%Test	% Examination	% Coursework	% Practical	Semesters
Engineering Mathematics	4FTCXXXX	15	0	60	40	0	A
Digital Electronic Circuits	4FTCXXXX	15	0	50	50	0	A
Circuit Theory and Analysis	4FTCXXXX	15	50	0	50	0	A
Project Planning and Design	4FTCXXXX	15	0	0	100	0	A
Professional Engineering	4FTCXXXX	15	0	0	100	0	B
Programming	4FTCXXXX	15	0	0	100	0	B
Analogue Circuits and Devices	4FTCXXXX	15	0	50	50	0	B
Electronic Product Development	4FTCXXXX	15	0	0	100	0	B

Progression to level 5 requires a minimum of 90 credits.

### Level 5

Compulsory Modules Module Title	Module Code	Credit Points	%Test	% Examination	% Coursework	% Practical	Semesters
Signals and Systems	5FTCXXXX	15	0	60	40	0	A
Digital Design and Embedded Systems	5FTCXXXX	15	0	60	40	0	A
Electric Power and Energy Conversion	5FTCXXXX	15	0	60	40	0	A
Analogue and Mixed-Signal Design	5FTCXXXX	15	0	0	100	0	A
Real-time Systems and Programming	5FTCXXXX	15	0	0	100	0	B
Connected Systems and IoT	5FTCXXXX	15	0	0	100	0	B
Mechatronics	5FTCXXXX	15	0	50	50	0	B
Communication System Principles	5FTCXXXX	15	0	60	40	0	B

Progression to level 6 requires a minimum of 210 credit points and above at level 4 and 5.

**Level 6**

<b>Compulsory Modules</b> Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Microelectronics and VLSI	6FTCXXXX	15	0	60	40	0	A
Intelligent Systems and Robotics	6FTCXXXX	15	50	0	50	0	A
Digital Communication Systems	6FTCXXXX	15	0	60	40	0	A
Digital Signal Processing	6FTCXXXX	15	0	60	40	0	B
Power Systems and Renewable Energy	6FTCXXXX	15	40	0	60	0	B
Wireless Networking	6FTCXXXX	15	50	0	50	0	B
BEng Individual Project (Electrical)	6FTCXXXX	30	0	0	80	20	AB