

## Degree planner – BE(Hons) in Electronic Engineering

If no point value is listed, papers are worth 15 points.

Year 1	ENGEN170 Engineering and Society	ENGEN180 Foundation of Engineering	ENGEN183 Linear Algebra and Stats	ENGEN184 Calculus for Engineers	ENGEN103 Engineering Computing	ENGEN112 Materials Science and Engineering	ENGEN111 Electricity and Electronics	Programme Elective
Year 2	ENGEN270 Engineering Professional Practice 1	ENGEE280 Design in Electronics	ENGEN201 Engineering Maths 2	ENGEE233 Digital Systems	ENGEE231 Circuit Theory	ENGEE232 Analog Electronics	ENGEE211 Electromagnetics	COMPX203 Computer Systems
Year 3	ENGEV342 Sustainable Engineering	ENGME352 Control and Apps	ENGEN301 Engineering Maths 3	ENGEE331 Signals	Programme Elective	Programme Elective	Programme Elective	Programme Elective
Year 4	ENGEN570 Engineering Professional Practice 2	ENGEN592 Research and Development Project*	ENGEN592 Research and Development Project*	ENGEN592 Research and Development Project*	Programme Elective	Programme Elective	Programme Elective	Programme Elective

■ Compulsory ■ Elective ■ Stream ■ Placement

**Note:** Second Year includes [ENGEN271: Work Placement 1](#), and Third Year includes [ENGEN371: Work Placement 2](#), which are compulsory but are 0-point papers. Placements are usually taken over the Summer period from November to February.

\*ENGEN592 Research and Development Project is worth 45 points.

### Year 1 Electives

Choose 15 points from the following:

[BIOEB101 Concepts of Biology](#)  
[BIOMO101 Introduction to Molecular and Cellular Biology](#)  
[COMPX102 Object-Oriented Programming](#)  
[ECONS102 Economics and Society](#)  
[ENGEN110 Engineering Mechanics](#)  
[PHYS101 Physics for Engineers and Scientists](#)  
[CHEMY1XX 100 Level Chemistry](#)

List B:

[ENGEE311 Optoelectronics](#)  
[ENGEE336 Power Electronics](#)  
[ENGEE323 Sensors and Measurement](#)  
[ENGEE3XX 300 Level Electronic Engineering](#)

### Year 3 Electives

Choose 30 points from List A or List B:

List A:

[ENGEE335 Integrated Circuits](#)  
[ENGEE334 Transmission Lines and Antennas](#)  
[ENGME357 Mechatronics](#)  
[ENGME353 Electrical and Mechanical Machines](#)

### Year 4 Electives

Choose 60 points with at least 30 points at 500 Level from the following:

[ENGEE580 Mechatronics Projects](#)  
[ENGEE517 Optical Instrumentation](#)  
[ENGEE532 Image Processing and Machine Vision](#)  
[ENGEE531 Advanced Signal Processing](#)  
[ENGME518 Robotics](#)  
[ENGEN590 Special Topics in Engineering](#)  
[ENGEE3XX 300 Level Electronic Engineering](#)  
[ENGME3XX 300 Level Mechanical Engineering](#)