**B.Eng. (Hons) Electrical & Electronic Engineering**
Mode of study: BEng Full Time: 3 years

**Level 4**

| **Compulsory Modules**<br>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**<br>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**

| **Compulsory Modules**<br>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 |