BEng Electronic Engineering with a foundation year (H604)

The electronics industry has revolutionised life in the last few decades, and continues to push the boundaries of the physical world to produce faster, more powerful and more cost-effective technologies that enable products such as personal computers, mobile phones and the Internet. This programme provides a solid core of knowledge in the discipline, allowing students to choose specialist options for deeper study later in the degree, providing considerable flexibility for you to develop your subject-specific knowledge according to your own developing interests.

Electronics is an exciting and fascinating world of large-scale projects with ever-increasing demands for solutions and innovation. To succeed in such an environment, graduates need to be knowledgeable, highly-skilled, professional and adept at communication and project management. Drawing on the expertise of the teaching and research staff at York, and including individual and group projects at every stage of the degree to develop practical, organisational, management and business skills, this programme will provide you with precisely the abilities and approaches you will need to operate with confidence – as a designer, operator or manager – in the challenging world of Electronics.

The Foundation Year at the start of the programme offers an opportunity for those who have potential, but who do not possess the qualifications to apply to our other programmes, to develop the skills needed to complete an accredited degree in this subject. Students on this programme can transfer onto our other programmes on successful completion of the Foundation Year.

As with all our undergraduate degrees, the BEng Electronic Engineering with Foundation Year is fully accredited by the Institute of Engineering and Technology.
Programme Learning Outcomes

Our undergraduate programmes are based around a shared set of six Programme Learning Outcomes (PLOs). These consist of four major areas, which are developed throughout each programme:

A. **Knowledge** – understanding & processing information about the subject (PLO1)

B. **Engineering Application** – using knowledge to create and modify solutions to real-world problems (This alone consists of 3 separately identifiable Programme Learning Outcomes (PLOs): PLO2: Engineering Analysis; PLO3: Engineering Design; PLO4: Practical Skills.

C. **Communication** – explaining concepts and results to other people (PLO5)

D. **Management & Graduate Skills** – professional self and group organisation (PLO6)

### After completing the programme, graduates will be able to:

<table>
<thead>
<tr>
<th>Area A: Knowledge</th>
<th>Assess electronic engineering designs by applying detailed knowledge of algorithms, devices and systems and by consulting relevant documentation and research.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area B: Engineering Application</td>
<td>Analyse system &amp; component performance through computational methods and modelling.</td>
</tr>
<tr>
<td></td>
<td>Create designs to address real-world problems by synthesising ideas into engineering specifications.</td>
</tr>
<tr>
<td></td>
<td>Solve technical problems through employing skills in programming, CAD, construction and measurement and by using safe laboratory techniques.</td>
</tr>
<tr>
<td>Area C: Communication</td>
<td>Clearly communicate and explain electronic engineering issues and practice in a technically accurate manner to a variety of audiences, verbally, in writing and using multimedia.</td>
</tr>
<tr>
<td>Area D: Management &amp; Graduate Skills</td>
<td>Coordinate and execute complex projects in electronics, computing and related disciplines, with effective time management, team working, and ethical decision–making.</td>
</tr>
</tbody>
</table>

#### Find out more

For more details, including programme content and the application procedure, please visit our website:

[www.york.ac.uk/electronics/undergraduate/courses/foundation_year](http://www.york.ac.uk/electronics/undergraduate/courses/foundation_year)

#### Contact us at:

Undergraduate Admissions  
Department of Electronics  
University of York  
York YO10 5DD  
Tel: +44 (0)1904 322365  
Email: elec-ug-admissions@york.ac.uk