BEng Electronic and Communication Engineering (H621)
BEng Electronic and Communication Engineering with a year in industry (H622)

The electronic communications sector encompasses a wide range of technologies from fibre-optics to mobile technology, from satellite engineering to the Internet, and including emerging areas such as the Internet of Things. Advances are continually made not only in the transmission of data via cable, fibre and increasingly by radio, but also in new protocols and methods of representing video, images and audio as data. This is a fast-paced, technologically complex world of global-scale projects and 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 Communications Research Group, 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 Communications Engineering.

As with all our undergraduate degrees, the BEng Electronic and Communication Engineering is fully accredited by the Institute of Engineering and Technology.
After completing the programme, graduates will be able to:

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)

### 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:

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

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

www.york.ac.uk/electronics/undergraduate/courses/comms

**Contact us at:**

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