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 researcher, expert designer or technical manager – in the challenging world of Communications Engineering.

The final year of this Masters-level programme extends the Bachelors (BEng) programme by providing an opportunity for further engagement with research staff, technology and literature. Students will manage a large-scale individual project, and extend their knowledge and experience in a variety of core and optional topic areas; together these opportunities allow you to develop the knowledge and skills required to take a leadership role in pushing forward this specialist subject area.

As with all our undergraduate degrees, the MEng Electronic and Communication Engineering is fully accredited by the Institute of Engineering and Technology, and satisfies the educational requirements for becoming a Chartered Engineer.
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>Conduct research in applied electronic and communications engineering to advance the state of knowledge in algorithms, devices and systems.</th>
<th>PLO1 Subject Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area B: Engineering Application</td>
<td>Extract and critically evaluate data from complex systems through analytical and computational methods and modelling.</td>
<td>PLO2 Engineering Analysis</td>
</tr>
<tr>
<td></td>
<td>Create innovative and optimised designs to address real-world problems involving electronic and communications hardware and software by synthesising ideas into engineering specifications.</td>
<td>PLO3 Engineering Design</td>
</tr>
<tr>
<td></td>
<td>Apply professional skills of programming, CAD, construction and measurement, combined with an understanding of communications engineering systems and components, to solve technically challenging problems.</td>
<td>PLO4 Practical Skills</td>
</tr>
<tr>
<td>Area C: Communication</td>
<td>Debate, defend and contextualise information in a succinct and technically accurate manner for audiences of engineers and members of the public, and to write and interpret technical documentation.</td>
<td>PLO5 Technical Communication</td>
</tr>
<tr>
<td>Area D: Management &amp; Graduate Skills</td>
<td>Proficiently manage themselves, teams and complex projects in preparation for technical careers as leaders in applied electronic engineering and wired and wireless communications systems.</td>
<td>PLO6 Management &amp; Personal Development</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/comms

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