This programme has been designed for those students who wish to combine a professional education in electronics with an understanding of the internal design and function of contemporary music technology systems. It provides training for the next generation of audio engineers, and designers of electronic musical instruments, studio equipment and audio systems. This is an area with a vast opportunity for creativity and innovation.

The programme provides a solid basis in engineering as applied to music and audio systems, and although not “musical” in the sense that there is no formal development of performance skills, the programme includes detailed material on synthesiser technology, MIDI, sampling and audio signal processing, and provides hands-on opportunities to learn how this technology is applied in recording studios and in field recording projects.

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 Audio Research Group 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 this exciting field.

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. Successful completion of this year programme allows transfer onto the first year of our other programmes, for example if you wish to add a year in industry to your degree.

As with all our undergraduate degrees, the BEng Music Technology Systems 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 and audio technology 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>
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<td></td>
<td>Create designs to address real-world problems involving audio hardware and software by synthesising ideas into engineering specifications.</td>
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<td></td>
<td>Solve technical problems through employing skills in programming, CAD, construction and measurement and by using safe laboratory techniques.</td>
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<tr>
<td>Area C: Communication</td>
<td>Clearly communicate and explain audio and 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 music technology, with effective time management, team working, and ethical decision-making.</td>
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</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/computer_engineering

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