MEng Music Technology Systems (H666)
MEng Music Technology Systems with a year in industry (H665)
MEng Electronic Engineering with Music Technology Systems (H669)
MEng Electronic Engineering with Music Technology Systems (H668)

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 researcher, expert designer or technical manager – in this exciting field.

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 Music Technology Systems 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 (PLLO6)

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

<table>
<thead>
<tr>
<th>Area A: Knowledge</th>
<th>Conduct research in applied electronic engineering and audio &amp; music technology to advance the state of knowledge in algorithms, devices and systems.</th>
<th>PLO1 Subject Knowledge</th>
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<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>
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<td>Create innovative and optimised designs to address real-world problems involving audio, computer programming, music technology, and analogue &amp; digital electronics by synthesising ideas into engineering specifications.</td>
<td>PLO3 Engineering Design</td>
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<td>Apply professional skills of audio analysis, programming, CAD, construction and measurement, combined with an understanding of engineering systems and components, to solve technically challenging problems.</td>
<td>PLO4 Practical Skills</td>
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<td>Area C: Communication</td>
<td>Debate, defend and contextualise information in a succinct and technically accurate manner for audiences of engineers, musicians and members of the public, and to write and interpret technical documentation.</td>
<td>PLO5 Technical Communication</td>
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<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 audio and electronic engineering.</td>
<td>PLO6 Management &amp; Personal Development</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/eemts/](http://www.york.ac.uk/electronics/undergraduate/courses/eemts/)

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