

## Programme Specification

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### MSc Acoustical Engineering (2020-21)

This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities that are provided.

Awarding Institution	University of Southampton
Teaching Institution	University of Southampton
Mode of Study	Full-time
Duration in years	1
Accreditation details	Institution of Mechanical Engineers Further Learning contribution for CEng registration for intakes 2019-2022
Final award	Master of Science (MSc)
Name of Award	MSc Acoustical Engineering MSc Acoustical Engineering/Signal Processing MSc Acoustical Engineering/Structural Vibration
Interim Exit awards	Postgraduate Certificate Postgraduate Diploma
FHEQ level of final award	Level 7
Programme Code	6961
QAA Subject Benchmark or other external reference	QAA Subject Benchmark – Engineering 2015; Accreditation of Higher Education Programmes, Edition 3, Engineering Accreditation Board Characteristic Statement: Master's Degree, QAA 2015
Programme Lead	Giacomo Squicciarini

## Programme Overview

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### Brief outline of the programme

An Acoustical Engineer has to be able to:

- Understand sound and vibration
- Understand the effects of sound and vibration on people (and sometimes animals)
- Control sound for the benefit of humanity
- Use sound and vibration for the benefit of humanity

Our MSc in Acoustical Engineering is a full-time master's degree that offers an academically challenging exposure to modern developments in sound, vibration and signal processing.

You will have the opportunity to gain a deep understanding of the physical and mathematical fundamentals of acoustics, vibration and signal processing while developing the practical and problem-solving skills to apply them in the fields of noise control, audio engineering, architectural acoustics, biomedical ultrasound and much more.

Your contact hours will vary depending on your module/option choices. Full information about contact hours is provided in individual module profiles

Please note: As a research-led University, we undertake a continuous review of our programmes to ensure quality enhancement and to manage our resources. As a result, this programme may be revised during a student's period of registration; however, any revision will be balanced against the requirement that the student should receive the educational service expected. Please read our Disclaimer to see why, when and how changes may be made to a student's programme.

Programmes and major changes to programmes are approved through the University's programme validation process which is described in the University's Quality handbook.

Your contact hours will vary depending on your module/option choices. Full information about contact hours is provided in individual module profiles.

### **Learning and teaching**

The programme is split into two components: a 'taught' component (October to June) and a research component (February to September).

### **Assessment**

Testing of the knowledge base is through a combination of unseen written examinations and assessed coursework in the form of problem-solving exercises, laboratory reports, design exercises, essays, and individual and group projects.

Analysis and problem-solving skills are assessed through unseen written examinations and problem based exercises. Experimental, research and design skills are assessed through laboratory reports, coursework exercises, project reports and oral presentations.

## **Special Features of the programme**

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**Please note:** As a research-led University, we undertake a continuous review of our programmes to ensure quality enhancement and to manage our resources. As a result, this programme may be revised during a student's period of registration; however, any revision will be balanced against the requirement that the student should receive the educational service expected. Please read our [Disclaimer](#) to see why, when and how changes may be made to a student's programme.

Programmes and major changes to programmes are approved through the University's [programme validation process](#) which is described in the University's [Quality handbook](#).

## **Educational Aims of the Programme**

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This programme aims to provide science or engineering graduates from a diversity of backgrounds with an academically challenging exposure to modern developments in sound, vibration and signal processing. The range of subjects offered is linked to the internationally recognised research activities of staff, and covers engineering acoustics, noise and vibration control, human effects of sound and vibration, and applied digital signal processing.

The aims of the programme are to:

- enable you to acquire some of the advanced knowledge and practical skills needed for a professional career in sound, vibration and signal processing.
- your ability to apply the academic knowledge gained to practical situations in your chosen discipline.
- develop, through a substantial open-ended research project, critical and analytical abilities as well as project management skills.

Subsidiary aims of the MSc programme are to:

- provide a supply of well-trained and motivated graduates for research positions both in the ISVR and elsewhere.
- provide career development opportunities in the broad field of sound, vibration and signal processing, for those seeking a change in employment or enhancement of their first degree.

## Programme Learning Outcomes

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### Disciplinary Specific Learning Outcomes

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On successful completion of this programme you will be able to:

- E1. Design and conduct an appropriate programme of work to set objectives for research in an Acoustical context
- E2. Use scientific and technical literature in support of research
- E3. Apply fundamental knowledge and understanding of essential facts, concepts and principles relevant to Acoustical Engineering in researching complex problems

### Science and Mathematics

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Engineering is underpinned by science and mathematics, and other associated disciplines, as defined by the relevant professional engineering institution(s). On graduation you will have achieved:

- SM7. A comprehensive understanding of the relevant scientific principles of Acoustical Engineering
- SM8. A critical awareness of current problems and/or new insights most of which is at, or informed by, the forefront of Acoustical Engineering
- SM9. Understanding of concepts relevant to Acoustical Engineering, some from outside engineering, and the ability to evaluate them critically and to apply them effectively, including in engineering projects

### Engineering analysis

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Engineering analysis involves the application of engineering concepts and tools to the solution of Acoustical Engineering problems. On graduation you will have achieved:

- EA5. Ability to use fundamental knowledge to investigate new and emerging technologies
- EA6. Ability both to apply appropriate engineering analysis methods for solving complex problems in engineering and to assess their limitations
- EA7. Ability to collect and analyse research data and to use appropriate engineering analysis tools in tackling unfamiliar problems, such as those with uncertain or incomplete data or specifications, by the appropriate innovation, use or adaptation of engineering analytical methods

### Design

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Design at this level is the creation and development of an economically viable product, process or system to meet a defined need. It involves significant technical and intellectual challenges and can be used to integrate all engineering understanding, knowledge and skills to the solution of real and complex problems. On graduation you will have the knowledge, understanding and skills to:

- D9. Knowledge, understanding and skills to work with information that may be incomplete or uncertain, quantify the effect of this on the design and, where appropriate, use theory or experimental research to mitigate deficiencies
- D10. Knowledge and comprehensive understanding of design processes and methodologies and the ability to apply and adapt them in unfamiliar situations
- D11. Ability to generate an innovative design for products, systems, components or processes to fulfil new needs

## **Economic, legal, social, ethical and environmental context**

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Engineering activity can have impacts on the environment, on commerce, on society and on individuals. Graduates therefore need the skills to manage their activities and to be aware of the various legal and ethical constraints under which they are expected to operate, including:

- EL8. Awareness of the need for a high level of professional and ethical conduct in engineering
- EL9. Awareness that engineers need to take account of the commercial and social contexts in which they operate
- EL10. Knowledge and understanding of management and business practices, their limitations, and how these may be applied in the context of Acoustical Engineering
- EL11. Awareness that engineering activities should promote sustainable development and ability to apply quantitative techniques where appropriate
- EL12. Awareness of relevant regulatory requirements governing engineering activities in the context of Acoustical Engineering
- EL13. Awareness of and ability to make general evaluations of risk issues in the context of Acoustical Engineering, including health & safety, environmental and commercial risk

## **Engineering practice**

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This is the practical application of engineering skills, combining theory and experience, and use of other relevant knowledge and skills. On graduation you will have achieved:

- P9. A thorough understanding of current Acoustical Engineering practice and its limitations, and some appreciation of likely new developments
- P10. Ability to apply engineering techniques taking account of a range of commercial and industrial constraints
- P11. Understanding of different roles within an engineering team and the ability to exercise initiative and personal responsibility, which may be as a team member or leader
- P12. Advanced level knowledge and understanding of a wide range of engineering materials and components

## **Additional general skills**

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On graduation you will have developed transferable skills, additional to those set out in the other learning outcomes, that will be of value in a wide range of situations, including the ability to:

- G1. Apply their skills in problem solving, communication, working with others, information retrieval, and the effective use of general IT facilities
- G2. Plan self-learning and improve performance, as the foundation for lifelong learning/CPD
- G3. Monitor and adjust a personal programme of work on an on-going basis
- G4. Exercise initiative and personal responsibility, which may be as a team member or leader

## Programme Structure

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The programme structure table is below:

Information about pre and co-requisites is included in individual module profiles.

Where optional modules have been specified, the following is an indicative list of available optional modules, which are subject to change each academic year. Please note in some instances modules have limited spaces available.

### Acoustical Engineering Pathway

#### Part I

The information in this appendix is liable to change in minor ways from year to year. It is accurate at the time of writing. For the latest information, see the programme handbook issued in September each year.

No more than 15 ECTS/ 30 CATS points at level 6 to be included in the year taught total of 60 ECTS/ 120 CATS points, all other modules and the Project (which is core) are at level 7.

Where optional modules have been specified, the following is an indicative list of available optional modules, which are subject to change each academic year. Please note in some instances modules have limited spaces available.

#### Part I Compulsory Modules

Code	Module Title	ECTS	Type
ISVR6136	Fundamentals of Acoustics	7.5	Compulsory

#### Part I Compulsory/Optional modules

Semester 1: Choose a minimum of 1 and a maximum of 2 from the following 2 modules:

Code	Module Title	ECTS	Type
ISVR6141	Fundamentals of Vibration	7.5	Compulsory
ISVR6130	Signal Processing	7.5	Compulsory

#### Part I Core

Code	Module Title	ECTS	Type
FEEG6012	MSc Research Project	30	Core
ISVR6147	Professional Aspects of Engineering	7.5	Core

#### Part I Optional modules

Acoustical Engineering pathway:

Semester I Options (all 7.5 ECTS/ 15 CATS points): Choose 1 or 2 from the list below.

Code	Module Title	ECTS	Type
ISVR6137	Electroacoustics	7.5	Optional
ISVR3064	Noise Control Engineering	7.5	Optional
ISVR3070	Ocean Acoustics & Biomedical Ultrasound	7.5	Optional

## Part I Optional modules all themes

Semester II Options (all 7.5 ECTS/ 15 CATS points): Remaining taught credits should be obtained from the following list of modules, with no more than 15 ECTS/ 30 CATS points at level 6 overall to be included. Choose up to 3 from the list below.

You may choose either ISVR3073 or ISVR6148.

Code	Module Title	ECTS	Type
ISVR6139	Active Control of Sound and Vibration	7.5	Optional
FEEG6004	Aeroacoustics	7.5	Optional
ISVR3071	Applied Audio Signal Processing	7.5	Optional
FEEG6011	Architectural and Building Acoustics	7.5	Optional
ISVR6138	Biomedical Application of Signal and Image Processing	7.5	Optional
ISVR3061	Human Responses to Sound and Vibration	7.5	Optional
ISVR3063	Musical Instrument Acoustics	7.5	Optional
ISVR3073	Theoretical and Computational Acoustics	7.5	Optional
ISVR6148	Theoretical and Computational Acoustics	7.5	Optional
ISVR6146	Vibration Engineering Practice	7.5	Optional

The programme structure table is below:

Information about pre and co-requisites is included in individual module profiles.

Where optional modules have been specified, the following is an indicative list of available optional modules, which are subject to change each academic year. Please note in some instances modules have limited spaces available.

## Signal Processing Pathway

### Part I

The information in this appendix is liable to change in minor ways from year to year. It is accurate at the time of writing. For the latest information, see the programme handbook issued in September each year.

No more than 15 ECTS/ 30 CATS points at level 6 to be included in the year taught total of 60 ECTS/ 120 CATS points, all other modules and the Project (which is core) are at level 7.

Where optional modules have been specified, the following is an indicative list of available optional modules, which are subject to change each academic year. Please note in some instances modules have limited spaces available.

To exit via the Signal Processing theme the candidate must undertake an Individual Project (core) which is relevant to Signal Processing and obtain 60 ECTS/120 CATS taught credits from the following modules.

### Part I Compulsory Modules

Code	Module Title	ECTS	Type
ISVR6136	Fundamentals of Acoustics 2020-21	7.5	Compulsory

## Part I Compulsory/Optional modules

Semester 1: Choose a minimum of 1 and a maximum of 2 from the following 2 modules:

Code	Module Title	ECTS	Type
ISVR6141	Fundamentals of Vibration 2020-21	7.5	Compulsory
ISVR6130	Signal Processing 2020-21	7.5	Compulsory

## Part I Core

Code	Module Title	ECTS	Type
FEEG6012	MSc Research Project 2020-21	30	Core
ISVR6147	Professional Aspects of Engineering	7.5	Core

## Part I Optional modules

Signal Processing pathway:

Remaining taught credits of 37.5 ECTS/75 CATS points should be obtained from the list of modules below (Part 1 Optional modules all themes), with no more than 15 ECTS/ 30 CATS points at level 6 to be included.

Code	Module Title	ECTS	Type
ISVR6139	Active Control of Sound and Vibration	7.5	Optional
FEEG6004	Aeroacoustics	7.5	Optional
ISVR3071	Applied Audio Signal Processing	7.5	Optional
FEEG6011	Architectural and Building Acoustics	7.5	Optional
ISVR6138	Biomedical Application of Signal and Image Processing	7.5	Optional
ISVR6137	Electroacoustics	7.5	Optional
ISVR3061	Human Responses to Sound and Vibration 2020-21	7.5	Optional
ISVR3063	Musical Instrument Acoustics	7.5	Optional
ISVR3064	Noise Control Engineering	7.5	Optional
ISVR3070	Ocean Acoustics & Biomedical Ultrasound	7.5	Optional
ISVR6148	Theoretical and Computational Acoustics	7.5	Optional
ISVR6146	Vibration Engineering Practice	7.5	Optional

The programme structure table is below:

Information about pre and co-requisites is included in individual module profiles.

Where optional modules have been specified, the following is an indicative list of available optional modules, which are subject to change each academic year. Please note in some instances modules have limited spaces available.

## Structural Vibration Pathway

### Part I

The information in this appendix is liable to change in minor ways from year to year. It is accurate at the time of writing. For the latest information, see the programme handbook issued in September each year.

No more than 15 ECTS/ 30 CATS points at level 6 to be included in the year taught total of 60 ECTS/ 120 CATS points, all other modules and the Project (which is core) are at level 7.

Where optional modules have been specified, the following is an indicative list of available optional modules, which are subject to change each academic year. Please note in some instances modules have limited spaces available.

#### Structural Vibration theme

To exit via the Structural Vibration theme the candidate must undertake an Individual Project (core) which is relevant to Structural Vibration and obtain 60 ECTS/120 CATS taught credits according to the following criteria.

#### Part I Compulsory Modules

Code	Module Title	ECTS	Type
ISVR6136	Fundamentals of Acoustics	7.5	Compulsory

#### Part I Compulsory/Optional modules

Semester 1: Choose a minimum of 1 and a maximum of 2 from the following 2 modules:

Code	Module Title	ECTS	Type
ISVR6141	Fundamentals of Vibration	7.5	Compulsory
ISVR6130	Signal Processing	7.5	Compulsory

#### Part I Core

Code	Module Title	ECTS	Type
FEEG6012	MSc Research Project	30	Core
ISVR6147	Professional Aspects of Engineering	7.5	Core

#### Part I Optional modules

#### Structural Vibration

Remaining taught credits of 37.5 ECTS/75 CATS points should be obtained from the list of modules below (Part 1 Optional modules all themes), with no more than 15 ECTS/ 30 CATS points at level 6 to be included.

Code	Module Title	ECTS	Type
ISVR6139	Active Control of Sound and Vibration	7.5	Optional
FEEG6004	Aeroacoustics	7.5	Optional
ISVR3071	Applied Audio Signal Processing	7.5	Optional
FEEG6011	Architectural and Building Acoustics	7.5	Optional
ISVR6138	Biomedical Application of Signal and Image Processing	7.5	Optional
ISVR6137	Electroacoustics	7.5	Optional
ISVR3061	Human Responses to Sound and Vibration	7.5	Optional
ISVR3063	Musical Instrument Acoustics	7.5	Optional
ISVR3064	Noise Control Engineering	7.5	Optional
ISVR6148	Theoretical and Computational Acoustics	7.5	Optional
ISVR6146	Vibration Engineering Practice	7.5	Optional

#### Progression Requirements

The programme follows the University's regulations for [Progression, Determination and Classification of Results : Undergraduate and Integrated Masters Programmes](#) or [Progression, Determination and Classification of Results: Postgraduate Master's Programmes](#). Any exemptions or variations to the University regulations, approved by AQSC are located in [section VI of the University Calendar](#).



## Support for student learning

There are facilities and services to support your learning some of which are accessible to students across the University and some of which will be geared more particularly to students in your particular Faculty or discipline area.

The University provides:

- library resources, including e-books, on-line journals and databases, which are comprehensive and up-to-date; together with assistance from Library staff to enable you to make the best use of these resources
- high speed access to online electronic learning resources on the Internet from dedicated PC Workstations onsite and from your own devices; laptops, smartphones and tablet PCs via the Eduroam wireless network. There is a wide range of application software available from the Student Public Workstations.
- computer accounts which will connect you to a number of learning technologies for example, the Blackboard virtual learning environment (which facilitates online learning and access to specific learning resources)
- standard ICT tools such as Email, secure filestore and calendars.
- access to key information through the MySouthampton Student Mobile Portal which delivers timetables, Module information, Locations, Tutor details, Library account, bus timetables etc. while you are on the move.
- IT support through a comprehensive website, telephone and online ticketed support and a dedicated helpdesk in the Hartley Library.
- Enabling Services offering support services and resources via a triage model to access crisis management, mental health support and counselling. Support includes daily Drop In at Highfield campus at 13.00 – 15.00 (Monday, Wednesday and Friday out of term-time) or via on-line chat on weekdays from 14.00 – 16.00. Arrangements can also be made for meetings via Skype.
- assessment and support (including specialist IT support) facilities if you have a disability, long term health problem or Specific Learning Difficulty (e.g. dyslexia)
- the Student Services Centre (SSC) to assist you with a range of general enquiries including financial matters, accommodation, exams, graduation, student visas, ID cards
- Career and Employability services, advising on job search, applications, interviews, paid work, volunteering and internship opportunities and getting the most out of your extra-curricular activities alongside your degree programme when writing your CV.
- Other support that includes health services (GPs), chaplaincy (for all faiths) and 'out of hours' support for students in Halls and in the local community (18.00-08.00).
- A Centre for Language Study, providing assistance in the development of English language and study skills for non-native speakers.

The Students' Union provides

- an academic student representation system, consisting of Course Representatives, Academic Presidents, Faculty Officers and the Vice-President Education; SUSU provides training and support for all these representatives, whose role is to represent students' views to the University.
- opportunities for extracurricular activities and volunteering
- an Advice Centre offering free and confidential advice including support if you need to make an academic appeal
- Support for student peer-to-peer groups, such as Nightline.

There are facilities and services to support your learning some of which are accessible to students across the University and some of which will be geared more particularly to students in your particular School or discipline area.

The University provides:

- library resources, including e-books, on-line journals and databases, which are comprehensive and up-to-date; together with assistance from Library staff to enable you to make the best use of these resources
- high speed access to online electronic learning resources on the Internet from dedicated PC Workstations onsite and from your own devices; laptops, smartphones and tablet PCs via the Eduroam wireless network. There is a wide range of application software available from the Student Public Workstations.
- computer accounts which will connect you to a number of learning technologies for example, the Blackboard virtual learning environment (which facilitates online learning and access to specific learning resources)
- standard ICT tools such as Email, secure filestore and calendars.
- access to key information through the MySouthampton Student Mobile Portal which delivers timetables, Module information, Locations, Tutor details, Library account, bus timetables etc. while you are on the move.
- IT support through a comprehensive website, telephone and online ticketed support and a dedicated helpdesk in the Hartley Library.
- Enabling Services offering support services and resources via a triage model to access crisis

management, mental health support and counselling.

- assessment and support (including specialist IT support) facilities if you have a disability, long term health problem or Specific Learning Difficulty (e.g. dyslexia)
- the Student Services Centre (SSC) to assist you with a range of general enquiries including financial matters, accommodation, exams, graduation, student visas, ID cards
- Career Destinations, advising on job search, applications, interviews, paid work, volunteering and internship opportunities and getting the most out of your extra-curricular activities alongside your degree programme when writing your CV
- Other support that includes health services (GPs), chaplaincy (for all faiths) and 'out of hours' support for students in Halls (18.00-08.00) a Centre for Language Study, providing assistance in the development of English language and study skills for non-native speakers.

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- opportunities for extracurricular activities and volunteering
- an Advice Centre offering free and confidential advice including support if you need to make an academic appeal
- Support for student peer-to-peer groups, such as Nightline.

Associated with your programme you will be able to access:

- School library containing specialist acoustical engineering textbooks and theses
- Induction programme for orientation, introduction of the programme and staff, and dissemination of materials.
- Student Coursebook, including guidance on selection of study programmes.
- Administrative and academic material on the Faculty, Programme and individual module web sites and/or Blackboard.
- A personal tutor to assist with organisational and personal matters. This role is taken over by the project supervisor when the research project starts.
- Careers advice and dissemination of available job advertisements.
- Personal email account and email access to staff via University system.
- Relevant specialist software on University clusters of computers.
- Formal progress monitoring during research project.
- Support for international students.

## Methods for evaluating the quality of teaching and learning

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You will have the opportunity to have your say on the quality of the programme in the following ways:

- Completing student evaluation questionnaires for each module of the programme.
- Acting as a student representative on various committees, e.g. Staff/Student Liaison Committees, School Programmes Committee OR providing comments to your student representative to feedback on your behalf.
- Serving as a student representative on Faculty Scrutiny Groups for programme validation.
- Taking part in programme validation meetings by joining a panel of students to meet with the Faculty Scrutiny Group.

Further details on the University's quality assurance processes are given in the [Quality handbook](#).

## External Examiner(s) for the programme

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Name: Dr Olga Umnova - University of Salford

Students must not contact External Examiner(s) directly, and external examiners have been advised to refer any such communications back to the University. Students should raise any general queries about the assessment and examination process for the programme with their Course Representative, for consideration through Staff: Student Liaison Committee in the first instance, and Student representatives on Staff: Student Liaison Committees will have the opportunity to consider external examiners' reports as part of the University's quality assurance process.

External examiners do not have a direct role in determining results for individual students, and students wishing to discuss their own performance in assessment should contact their Personal Academic Tutor in the first instance.

**Please note:** This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if they take full advantage of the learning opportunities that are provided. More detailed information can be found in the programme handbook.

## Appendix 1:

Students are responsible for meeting the cost of essential textbooks, and of producing such essays, assignments, laboratory reports and dissertations as are required to fulfil the academic requirements for each programme of study. In addition to this, students registered for this programme also have to pay for:

### Additional Costs

Type	Details
Anything else not covered elsewhere	<p>Students are responsible for meeting the cost of essential textbooks, and of producing such essays, assignments, laboratory reports and dissertations as are required to fulfil the academic requirements for each programme of study.</p> <p>In some cases you'll be able to choose modules (which may have different costs associated with that module) which will change the overall cost of a programme to you. Details of such costs will be listed in the Module Profile. Please also ensure you read the section on additional costs in the University's Fees, Charges and Expenses Regulations in the University Calendar available at <a href="http://www.calendar.soton.ac.uk">www.calendar.soton.ac.uk</a>.</p>
Approved Calculators	Students may use calculators in the examination room only as specified by the University and as permitted by the rubric of individual examination papers. The University specifies permissible models from time to time and these may be purchased from any source.
Design equipment and materials	We provide a wide range of resources to support project based modules and activities and these will allow you to complete your assessed exercises to the highest standard. However, you may wish to customise your project by purchasing additional resource e.g. alternative manufacturing materials, electronic components, etc. You may also incur additional costs for printing e.g. large format
Optional Visits (e.g. museums, galleries)	Some modules may include additional optional visits. You will normally be expected to cover the cost of travel and admission, unless otherwise specified in the module profile. For costs related to study abroad please see the relevant module profile.
Printing and Photocopying Costs	In some cases, coursework and/or projects may be submitted electronically. Where it is not possible to submit electronically students will be liable for printing costs. Students are expected to cover the costs associated with the printing of drawings and graphic presentations. These are typically expected to be of the order of £20 - 50 per student. The third year module FEEG3003 Individual Project requires you to print an A1 portrait poster on paper at a typical cost of £20.
Stationery	You will be expected to provide your own day-to-day stationary items, e.g. pens, pencils, notebooks, etc.).
Textbooks	Where a module specifies core texts these should generally be available on the reserve list in the library. However due to demand, students may prefer to buy their own copies. These can be purchased from any source. Some modules suggest reading texts as optional background reading. The library may hold copies of such texts, or alternatively you may wish to purchase your own copies. Although not essential reading, you may benefit from the additional reading materials for the module.

In some cases you'll be able to choose modules (which may have different costs associated with that module) which will change the overall cost of a programme to you. Details of such costs will be listed in the Module Profile. Please also ensure you read the section on additional costs in the University's Fees, Charges and Expenses Regulations in the University Calendar available at [www.calendar.soton.ac.uk](http://www.calendar.soton.ac.uk).