

# **Programme Specification**

# Design Management (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 None

Final award Master of Arts (MA)

Name of award Design Management

Interim Exit awards Postgraduate Certificate

Postgraduate Diploma

FHEQ level of final award Level 7

UCAS code n/a
Programme code 7819

QAA Subject Benchmark or other Art And Design 2008, Master's Degrees In Business And Management

external reference 2007

Programme Lead Yuanyuan Yin

# **Programme Overview**

### Brief outline of the programme

The Design Management programme engages you in the process of managing design in all aspects of business and how design can be use strategically to enhance business performance. Sir George Cox highlighted that "Design is what links creativity and innovation. It shapes ideas to become practical and attractive propositions for users or customers." Excellence in design gives companies the means to gain competitive advantage by creating attractive propositions for more demanding customers. Managing the generation and successful implementation of new ideas is crucial for all companies. With strong focus on current industry practice, the programme explores the effective use of design in commercial, business, social and digital contexts to deliver business goals, and the importance of measuring design effectiveness. You will be encouraged to develop original and creative ideas that will allow you to negotiate and co-create with designers, marketers, financiers, lawyers, and clients in the pursuit of the best design thinking. Our curriculum is based on the issues of product design and innovation, process design, services design and brand design. You will also investigate the applied issues of risk management, design law, consumer behaviour and corporate identity in relation to sustainable design process and corporate social responsibility and will gain a valuable understanding of how to assess the commercial return on design investments within a company. The emphasis of this programme is on developing knowledge and understanding of the theoretical and practical issues that underpin the design management process and enable you to build a

critical awareness of the role of design in industry. Whilst the role of creativity, innovation and entrepreneurship are examined and discussed in depth, the programme is aimed at students who wish to understand, manage and oversee the process. In this sense it should appeal to students ideally seeking careers as design managers or strategists within the creative industries as well as designers and non-designers from business, management from other sectors, who want to develop their career by taking on a more strategic, managerial role or to accelerate their careers by developing a greater understanding of the value of design and innovation and how to harness its power within a corporate context.

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 Faculty promotes a student-centred approach and this programme uses teaching and learning strategies that will support you to develop into expert post-graduate level design management professionals.

Teaching and learning methods include: lectures and tutorials, collaborative on-line learning groups, facilitated discussions, workshops, guest speaker presentations and self-directed study, staff and student- led seminars and case study analysis. These methods are designed to integrate theory and practice, to foster a spirit of enquiry, promote collaborative learning and meet a range of learner needs and styles. Key transferable skills are encouraged via the learning and teaching activities throughout the programme. An overview of the learning relationship between you and the University is provided in the University of Southampton Student Charter.

The Faculty and School of Art is committed to supporting you to enable you to fulfil your academic and personal potential. We will work with you to facilitate your learning, within a multi-cultural context underpinned by mutual respect.

#### Assessment

Throughout the programme you will be involved in learning through assessment. Assessment tasks will be formative and summative: formative assessment is not marked and is designed to enable you to gain from self-evaluation, peer and academic verbal and written feedback, in order to improve your work for the summative assessment.

The summative assessment includes a range of assignments used to enable you to demonstrate the achievement of intended learning outcomes. Assessment is designed to help you demonstrate your knowledge, critical understanding and application of essential concepts of Design Management. Within the programme modules the approach to assessment is designed to enable you to integrate theory and practice, maximise your skills of critical thinking and analysis, and develop your understanding of creative industry management in relation to your profession.

# Special Features of the programme

This programme will include guest lectures and workshops by specialists in their field. There will normally be a study trip to a particular venue, company or museum as deemed appropriate during both the first and second term. You will be encouraged to attend these study visits, but it is understood that, there may be certain exceptional circumstances such as illness which may not make it possible for you to attend. These visits are self-financed and the University will normally be able to obtain group discounts for such visits.

**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 <u>Disclaimer</u> 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 <u>programme validation</u> <u>process</u> which is described in the University's <u>Quality handbook</u>.

# **Educational Aims of the Programme**

The aims of the programme are to: The aims of the programme are:

- · To promote originality, insight and critical reflective abilities
- · To apply a range of techniques and research methods to your specialist field
- · To behave ethically and with integrity and a strong sense of social responsibility
- · To develop a range of professional skills relevant to the creative industries including the use of digital
- · To take responsibility for independent learning and continuing professional development
- To enable an international perspective with a critical awareness of current issues and developments in your subject and profession

# **Programme Learning Outcomes**

Having successfully completed this programme you will be able to demonstrate knowledge and understanding of:

# **Knowledge and Understanding**

On successful completion of this programme you will have knowledge and understanding of:

- A1. current theories and practices arising from your in-depth research and enquiry
- A2. the challenges of leading and managing creativity in global contexts and multidisciplinary teams
- A3. systematic insight into organisations and professional skills relevant to the creative economy
- A4. the contemporary context and culture of Design Management and the creative industries
- A5. ethical and sustainability debates relevant to Design Management issues and employability
- A6. a range of contemporary contexts relevant to the global creative industries and informed by leading research

#### **Teaching and Learning Methods**

The programme employs a variety of learning and teaching methods designed to recognise different learning styles and support you in developing and achieving the learning outcomes. Engagement with academic staff, guest speakers and industry-related opportunities will enhance the currency of syllabus content and help establish in-depth knowledge of such organisations and the creative economy, with particular reference to professional skills.

You will be expected to take an active role in your learning and one of the many benefits of this approach is that it enables you to reflect on the continuum of knowledge acquisition whist enabling you to apply this within your context. You will be expected to be reflective and self-aware of your learning needs and those of others who may have different perspectives and backgrounds.

You will develop your knowledge and understanding through staff -led teaching and independent learning time. Teaching methods will include:

- Lectures
- · Interactive workshops
- · research skills inductions
- tutor-led seminars
- student-led seminars
- tutorials
- case study analysis
- · visiting lecturers

Learning methods, that include independent learning during non-contact time, will include:

- · reflection on verbal or written feedback: this may be verbal or written offered during seminars, tutorials, group activities
- · evaluation of feedback: this may take the form of reflective formative tasks
- · group and collaborative projects and tasks
- · optional study visits
- · independent research and investigation
- · online reference material research
- · peer group learning and peer assessment tasks
- problem-solving activities
- class discussion/critiques
- student presentations

#### **Assessment Methods**

The programme will employ a range of assessment and feedback approaches to ensure that the assessment strategy is progressive in complexity and enables you to achieve the learning outcomes whilst enhancing your learning experiences.

Formative (not-marked) assessment will be undertaken at key stages within the taught Semesters 1 and 2, in order to provide you with the ability to evaluate your learning and address any identified issues in advance of your summative (marked) assessment.

Ongoing feedback will be provided from your academic tutor, module lead and peers.

Summative assessment of your knowledge and understanding will be undertaken through formal assessment of work. The assignments are designed to develop and test your growing knowledge and understanding of the subject area.

Formative and Summative assessment methods to test knowledge and understanding for the programme will include:

- · oral presentations (group and individual)
- · written assignments (essays, reports, and a final project/critical paper)
- digital and visual assignments.

# **Subject Specific Intellectual and Research Skills**

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

- B1. think in a critically reflective and creative manner
- B2. research, critique and apply analysis of theoretical studies in Design Management
- B3. identify and analyse data and information to evaluate their relevance and validity using a range of sources
- B4. organise and synthesise a range of complex written and visual information arising from new and changing situations
- B5. recognise your own academic strengths and weaknesses, reflecting on your performance and progress and be able to respond to feedback
- B6. apply critical judgement to advance your research and intellectual skills

#### **Teaching and Learning Methods**

Similarly to your knowledge and understanding skills, you will be provided with resources to enable you to further develop your knowledge base encouraging Masters level thinking with the possibility of progressing to doctoral level after completing this programme. The teaching and learning strategies are the same as above with a focus on a variety of face-to-face contact and online learning and teaching methods

The programme employs a variety of learning and teaching methods designed to recognise different learning styles and support you in developing and achieving critical, reflective and research learning outcomes appropriate to Masters' level. You will be expected to develop an increasingly self-aware approach to learning, managing your learning progress. Teaching and learning strategies that will enable you to demonstrate application of critical, reflective and analytical thinking will include:

- lectures
- · academic study skills sessions
- tutor-led seminars
- tutorials
- · case study analysis
- visiting Lecturers
- · Independent learning, including reflection and evaluation of feedback
- · group projects and formative collaborative tasks
- study visits
- · independent research
- · online reference material and tutorial notes
- peer group learning
- class discussions

#### **Assessment Methods**

Formative (not-marked) assessment will be undertaken at key stages within the taught Semesters 1 and 2, in order to provide you with the ability to evaluate your learning and address any identified issues in advance of your summative (marked) assessment.

Ongoing feedback will be provided from your academic tutor, module lead and peers.

Summative assessment of your intellectual and research skills will be undertaken through formal assessment of work. The assignments are designed to develop and test your growing ability to research, reflect and critically examine topics appropriate to your subject area.

Formative and Summative assessment methods to test knowledge and understanding for the programme may include:

- · case studies,
- · presentations,
- · reflective essays,
- reports

# Transferable and Generic Skills

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

- C1. take responsibility for your own learning development and academic integrity
- C2. demonstrate ability to work effectively individually and in a team role, solving problems in innovative and creative ways
- C3. demonstrate awareness of ethical considerations
- C4. communicate effectively using a range of media (for example orally, in writing and through digital media)
- C5. manage your time and resources as an independent learner
- C6. evidence the ability to successfully manage and complete an independent project

## **Teaching and Learning Methods**

Teaching and learning activities are embedded within all of the taught modules to enable you to develop your transferable skills. You will develop transferable communication skills using a variety of media, together with the ability to apply an understanding of ethical and legal frameworks to your work. This

will be facilitated through academic study and professional skills sessions, tutor-led and student-led seminars and collaborative projects.

Engagement in individual and group work will promote your ability to take responsibility for your own work and critically reflect on it in a manner that promotes self-awareness and personal development. This will also provide an opportunity for you to work in unfamiliar contexts within a group or team. The Final Project module will provide you with further opportunities to practice working effectively and independently with limited supervision and to exercise your time management skills.

#### **Assessment Methods**

The methods of assessment are the same as the previous two sections with ongoing feedback provided from your academic tutor, module lead and peers.

The assessment methods are designed to enable you to demonstrate achievement of the transferable and generic skills learning outcomes, which will include your ability to communicate effectively your ideas and concepts, across a wide range of media, appropriate to your academic and professional context. Time management will be assessed through research proposals, where you will be required to plan your final project as an independent learner.

## **Disciplinary Specific Learning Outcomes**

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

- E1. develop and demonstrate critical thinking in relation to design management practice and theory in particular contexts
- E2. critically examine and question the parameters and complexity of contemporary debates in design, its practice and theory, and how they inform your research
- E3. effectively undertake a self-motivated and creative approach to specialist research in a design management related topic; integrate and critically examine relevant theories, practices, processes, and contexts; develop appropriate methodologies, evaluate and present findings in a professional manner

### **Teaching and Learning Methods**

In developing subject specific knowledge in your chosen discipline, you will be supported by highly experienced academics who, as experts in the field, will facilitate you as Design Managers to understand the knowledge and skills required to confidently lead and work in the creative industries. This will include critically analysis and developing your ability to think about your creative and analytical thinking within a global design industry context.

### **Assessment Methods**

As above, the assessment methods will include formative and summative assignments, to evidence your evidencing your advanced level knowledge and experience of Design Management. Ongoing feedback will be provided from your academic tutor, module lead and peers.

#### **Learning Outcomes**

### LO1. Postgraduate Certificate learning outcomes

Having successfully completed the PG Certificate you will be able to demonstrate knowledge and understanding of:

- An overview of the current theories and practices arising from your in-depth research and enquiry
- An outline appreciation of the challenges of leading and managing creativity in global contexts and multidisciplinary teams
- An understanding of systematic insight into organisations and professional skills relevant to the creative economy

- An appreciation of the contemporary context of design management within its global industry
- An overview of ethical and sustainability debates relevant to the discipline and employability

You should be aware that as the PG Certificate is based on the attainment of credit rather than on passing specific modules and you will be able to demonstrate the specific learning outcomes relating to the modules which you have passed.

## LO2. Postgraduate Diploma learning outcomes

Having successfully completed the PG Diploma you will be able to demonstrate knowledge and understanding of:

- A more comprehensive overview of the current theories and practices arising from your in-depth research and enquiry
- A reasonably detailed appreciation of the challenges of leading and managing creativity in global contexts and multidisciplinary teams
- A more comprehensive understanding of systematic insight into organisations and professional skills relevant to the creative economy
- A more detailed appreciation of the contemporary context of design management within its global industry
- A more detailed appreciation of ethical and sustainability debates relevant to the discipline and employability

You should be aware that as the PG Diploma is based on the attainment of credit rather than on passing specific modules and you will have been able to demonstrate the specific learning outcomes relating to the modules which you have passed.

# **Programme Structure**

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.

#### Part I

Programme details

The programme consists of core, compulsory and optional modules. (For definitions see:

http://www.calendar.soton.ac.uk/sectionIV/credit-bearing-progs.html)

Taught modules are delivered in Semesters 1 and 2, while the Final Project module is a student-led independent project carried out over the summer period.

The core modules provide in depth knowledge relevant to the specialist concepts and methods of Design Management. The compulsory modules consider a broad range of subject specific and employability related topics. Additionally you will engage in academic skills related to conducting research, synthesizing and analysing data and writing up your work in accordance with academic expectations appropriate to this level of study. These academic skills are taught alongside general professional skills, whilst a separate 'Contextual Studies' module will provide you with a applied understanding and knowledge of issues more specifically linked to Design Management. The Option module in Semester 2 provides you with an opportunity to further enhance the career- orientation of your studies and tailor your programme towards your professional aspirations.

You will be able to apply the knowledge and skills you develop on the programme through a Final Project, giving you an opportunity to develop an area of personal expertise.

### Typical course content

Students on the Design Management programme will be introduced to the broader social, political, historical and religious contexts, traditions and cultural origins of design and learn to appreciate and reflect upon the

transformative nature of design in problem solving and managing change. Through various lectures and assignments students will compare the stylistic characteristics of design and design movements and the major traditions that influenced them and recognise the importance of the creative economy, the impact of design and innovation and the integrative strategic nature of these in attaining and further sustaining competitive advantage for the enterprise.

The programme will quip you with a thorough grounding in academic and design research skills, theory and practice, to enable you to plan and pursue an original independent research project with an appropriate methodology. The research element of the course will enable you to locate, interrogate, analyse and synthesize information from a variety of sources and perspectives, drawing balanced and insightful conclusions and develop ideas applicable to your research

By the end of the programme you will also have been introduced to and gained an appreciation and understanding of the role of and importance of design in wider contexts including, organizational management, legal and financial implications, brand equity design, customer experience design, future forecasting, digital and service design, corporate social responsibility and sustainable design.

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

#### Part I Compulsory (must take)

Code	Module Title	ECTS	Туре
ARTD6113	Professional and Academic Skills 1	10	Compulsory
ARTD6114	Professional and Academic Skills 2	10	Compulsory
ARTD6120	Strategic Design Management and Marketing	10	Compulsory

### Part I Core (must take and pass)

Code	Module Title	ECTS	Type	
ARTD6118	Design Management 1	10	Core	
ARTD6119	Design Management 2	10	Core	_
ARTD6121	Final Project (Design Management)	30	Core	_

## Part I Optional (must choose one)

Code	Module Title	ECTS	Туре
ARTD6152	Creative Thinking and Problem Solving	10	Optional
ARTD6153	Digital Cultures	10	Optional
ARTD6154	Entrepreneurship	10	Optional
ARTD6155	Experimental Publishing	10	Optional
ARTD6156	Exploring the Visual Language of Display	10	Optional
ARTD6157	Global Marketing	10	Optional
ARTD6151	Sustainability in Business and Design	10	Optional
ARTD6158	Visual Culture	10	Optional

# **Progression Requirements**

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

# 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-todate; 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.

## Associated with your programme you will be able to access:

- · A Personal Academic tutor and a Senior Tutor
- · Programme handbooks
- · Module support material (increasingly in electronic form).
- · Core research skills module at the start of your programme
- · Postgraduate research students handbook
- · WSA Intranet site with programme documentations and information
- Blackboard
- · Inductions
- Technical demonstrations as required
- · Specialist workshop activity support as required
- Module and Project briefings
- The Gallery at Winchester: changing local, national and international visual art and craft exhibitions
- · Computing and ICT facilities throughout WSA: large scale specialist printers; ICT facilities also available on the Highfield campus
- · WSA Library. Specialist collections and resources, including the Artists' book Collection, the Knitting Reference Library, and the DVD and video collections together with specialist inductions and support linked to your course of study

# Methods for evaluating the quality of teaching and learning

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*.

# **Career Opportunities**

Graduates from the MA Design Management programme typically gain employment in various design and management related roles in a wide range of corporate and creative industries including Design agency work, Marketing and Brand Management. The various roles that students will undertake within this area include those of Design Managers, Account handlers, Consumer insight consultant, Design strategists, Brand Managers, Marketing Communication experts and a range of other executive level roles within the creative industries. Our graduates find employment opportunities within these roles either working for agencies or their clients and in some cases choose to operate as freelance practitioners or consultants within their chosen career pathway. Whilst the majority of our graduates find employment in strategic design, marketing or branding roles, some also find employment as creatives or set up their own businesses.

# External Examiner(s) for the programme

Name: Dr Beverley Wagner - University of Strathclyde

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**

Туре	Details
Accommodation and Travel	The Union Southampton provide a mini free bus service which runs every 2 hours between the Winchester Campus and the Highfield Campus. Students are responsible for all other daily travel expenses.
Approved Calculators	The University approved models are Casio FX-570 and Casio FX-85GT Plus.  These may be purchased from any source and no longer need to carry the University logo.
Art Equipment and Materials: Drawing paper; painting materials; sketchbooks	Students on the Studio pathways will be required to purchase Sketchbooks the cost of which will vary.
Art Equipment and Materials: Fabric, Thread, Wool	Students taking the Studio based Fashion Design and Textile Design Pathway will be required to purchase their own materials, the cost of which will vary. A student can choose the quality.
Design equipment and materials	Standard construction/modelling materials will be provided where appropriate, unless otherwise specified in a module profile.
	For customisation of designs/models calling for material other than standard construction/ modelling materials, students will bear the costs of such alternatives.
Optional Visits (e.g. museums, galleries)	Some modules may include optional visits to a museum, galleries, or industry. You will normally be expected to cover the cost of travel, admission and food unless otherwise specified in the module profile.
Parking costs (including on placements at hospitals)	Free parking is not normally available on campus to students.
Printing and Photocopying Costs	Where possible, coursework such as essays; projects; dissertations is likely to be submitted on line. However, there are some items where it is not possible to submit on line and students will be asked to provide a printed copy.
	A list of the University printing costs can be found here: http://www.southampton.ac.uk/isolutions/students/printing/
Stationery	You will be expected to provide your own day-to-day stationary items, e.g. pens, pencils, notebooks, etc). Any specialist stationery items will be specified under the Additional Costs tab of the relevant module profile.
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.