



UNIVERSITY OF
PORTSMOUTH

COURSE SPECIFICATION

BSc (Hons) Virtual and Augmented Reality

Academic Standards, Quality and Partnerships
Department of Student and Academic Administration

July 2021

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COURSE SPECIFICATION

Course Title	<i>BSc (Hons) Virtual and Augmented Reality</i>
Final Award	<i>BSc (Hons)</i>
Exit Awards	<i>CertHe, DipHE, BSc</i>
Course Code / UCAS code (if applicable)	<i>U2914PYC, C2914S / I700</i>
Mode of study	<i>Full-time</i>
Mode of delivery	<i>Campus</i>
Normal length of course	<i>3 years, 4 years with placement</i>
Cohort(s) to which this course specification applies	<i>September 2019 intake onwards</i>
Awarding Body	<i>University of Portsmouth</i>
Teaching Institution	<i>University of Portsmouth</i>
Faculty	<i>Creative and Cultural Industries</i>
School/Department/Subject Group	<i>School of Creative Technologies</i>
School/Department/Subject Group webpage	<i>School of Creative Technologies</i>
Course webpage including entry criteria	<i>BSc (Hons) Virtual and Augmented Reality</i>
Professional and/or Statutory Regulatory Body accreditations	<i>N/A</i>
<u>Quality Assurance Agency Framework for Higher Education Qualifications (FHEQ) Level</u>	<i>Level 6</i>

This course specification provides a summary of the main features of the course, identifies the aims and learning outcomes of the course, the teaching, learning and assessment methods used by teaching staff, and the reference points used to inform the curriculum.

This information is therefore useful to potential students to help them choose the right course of study, to current students on the course and to staff teaching and administering the course.

Further detailed information on the individual modules within the course may be found in the relevant module descriptors and the Course Handbook provided to students on enrolment.

Please refer to the [Course and Module Catalogue](#) for further information on the course structure and modules.

Educational aims of the course

The Virtual and Augmented reality (VR/AR) course is built upon the following core aims:

1. To produce graduates with the relevant knowledge and desired skillset that accurately reflects the current and anticipated future needs of employers and clients
2. To provide students with a high-level understanding of VR/AR, preparing them for graduate level employment in VR/AR development and design but also quick progression into more directorial/project management roles

Feeding into the above aims, this course shall provide students with the following:

- The necessary knowledge and skills to produce outstanding quality VR/AR experiences across numerous areas of application
- Core programming and development skills that will support entry into VR/AR employment but also wider computing positions
- A high-level understanding of human perception and user-experience (UX), making them highly suitable candidates for employment in VR/AR design and UX testing/user research
- The skills and knowledge required to accurately and fairly analyse and evaluate VR/AR content, hardware and the market – and to exploit these skills to create work of a higher quality
- Opportunity to learn directly from experienced staff who are currently active and regularly publishing their work, both as academic researchers and producers of VR/AR content
- The necessary transferable skills for lifelong learning, employability and flexibility in the context of changing labour markets
- The skills and knowledge required to maximise career and postgraduate study opportunities
- Global engagement, with students given the opportunity to work and/or study abroad

Course Learning Outcomes and Learning, Teaching and Assessment Strategies

The [Quality Assurance Agency for Higher Education \(QAA\)](#) sets out a national framework of qualification levels, and the associated standards of achievement are found in their [Framework for Higher Education Qualifications](#) document.

The Course Learning Outcomes for this course are outlined in the tables below.

A. Knowledge and understanding of:

LO number	Learning outcome	Learning and Teaching methods	Assessment methods	Core employability skills
A1	Contextual awareness showing understanding of the VR/AR industry, its applications and its client's needs.	Lectures, seminars, supervision	Essay, presentation, practical work	Research, presenting
A2	The value and utility of research as it pertains to VR/AR development.	Lectures	Essay, presentation	Informed VR development, presentation
A3	Industrial software and technologies and their application domains.	Lectures, workshops	Essay, presentation, practical work	Industry software, VR design
A4	The core production process for VR/AR development: asset production, design, implementation and testing.	Seminars, workshops	Presentation, practical work, exam	Creative/portfolio, industry software, teamwork
A5	Object oriented programming languages and specific coding relevant to VR/AR implementation.	Lectures, seminars, workshops	Practical work Formative/ supervision	VR Coding skills, VR design

B. Cognitive (Intellectual or Thinking) skills, able to:

LO number	Learning outcome	Learning and Teaching methods	Assessment methods	Core employability skills
B1	Consider and evaluate their own work in a reflexive manner, with reference to global issues and challenges, academic codes of practice and/or professional conventions, issues and debates.	Lectures, seminars, supervision	Essay, exam Formative/ supervision	Project/self-management, industry standards
B2	Solve problems relating to a variety of VR/AR scenarios.	Seminars, workshops	Practical work	Research, VR design
B3	Apply professional codes of conduct as relevant to global frameworks and perspectives and also appreciate the ethical considerations that underpin them.	Lectures	Practical work Formative/ supervision	Industry standards
B4	Plan, conduct and produce a report on a programme of original research, both individually and in a group.	Lectures, seminars, supervision	Essay, presentation	Research, presenting, teamwork

C. Practical (Professional or Subject) skills, able to:

LO number	Learning outcome	Learning and Teaching methods	Assessment methods	Core employability skills
C1	Use and manage appropriate software and hardware to produce designed outcomes.	Seminars, workshops	Practical work Formative/ supervision	Industry software, VR design
C2	Apply project management including methodology, planning, verification and reflection.	Lectures, seminars, supervision	Practical work Formative/ supervision	Project/self-management, industry standards
C3	Be adaptable, creative and reflexive in producing output for a variety of audiences using a variety of VR/AR platforms.	Lectures, seminars, supervision	Practical work Formative/ supervision	Creative/portfolio, industry software, VR design
C4	Work to industry recommended standards of design and programming.	Lectures, seminars, supervision	Practical work, exam	Informed VR development, industry standards

D. Transferrable (Graduate and Employability) skills, able to:

LO number	Learning outcome	Learning and Teaching methods	Assessment methods	Core employability skills
D1	Work in flexible, creative and independent ways, showing self-discipline awareness of relevant ethical considerations, self-direction and reflexivity.	Seminars, workshops	Practical work	Project/self-management, creative/portfolio
D2	Work effectively in teams and manage time effectively.	Seminars	Presentation, practical work Formative/ supervision	Project/self-management, teamwork
D3	Communicate effectively through visual, oral written work.	Lectures, seminars, workshops, supervision	Essay, presentation, practical work	Presenting, research
D4	Promote own work and develop strategies for career development.	Lectures, seminars	Practical work, exam	Project/self-management, creative/portfolio
D5	Able to consider VR/AR and own work in an international context with informed understanding of the global industry and consumer market.	Lectures, seminars	Essay	Informed VR development, industry standards

Academic Regulations

The current University of Portsmouth [Academic Regulations](#) will apply to this course.

Support for Student Learning

The University of Portsmouth provides a comprehensive range of support services for students throughout their course, details of which are available at the [MyPort](#) student portal.

In addition to these University support services this course also provides student support through dedicated Academic and Creative skills tutors, and Student Support Advisor.

In addition to these University support services this course also provides access to:

CCI Creative Careers: Support to add degree-related and relevant work experience for CV building including a work placement year, summer or short internships and part-time work.

CCI Creative Skills: One to one support sessions and group tutorials in creative software and skills relevant to CCI courses and future careers.

CCI Academic Skills: Access to resources to support learning strategies and techniques through one to one tutorials or group workshops.

CCI Student Support Advisor: Help to find appropriate academic, pastoral or practical support. Specialist equipment and facilities relevant to the course.

Evaluation and Enhancement of Standards and Quality in Learning and Teaching

The University of Portsmouth undertakes comprehensive monitoring, review and evaluation of courses within clearly assigned staff responsibilities. Student feedback is a key feature in these evaluations, as represented in our [Policy for Listening to and Responding to the Student Voice](#) where you can also find further information.

Reference Points

The course and outcomes have been developed taking account of:

- [University of Portsmouth Curriculum Framework Specification](#)
- [University of Portsmouth Strategy](#)
- [University of Portsmouth Code of Practice for Work-based and Placement Learning](#)
- [Quality Assurance Agency UK Quality Code for Higher Education](#)
- [Quality Assurance Agency Qualification Characteristic Statements](#)
- [Quality Assurance Agency Subject Benchmark Statement: Communication, Media, Film and Cultural Studies, Computing, Art and Design](#)
- [Quality Assurance Agency Framework for Higher Education Qualifications](#)
- Requirements of Professional and/or Statutory Regulatory Bodies: **None**
- Vocational and professional experience, scholarship and research expertise of the University of Portsmouth's academic members of staff
- National Occupational Standards

Disclaimer

The University of Portsmouth has checked the information provided in this Course Specification and will endeavour to deliver this course in keeping with this Course Specification. However, changes to the course may sometimes be required arising from annual monitoring, student feedback, and the review and update of modules and courses.

Where this activity leads to significant changes to modules and courses there will be prior consultation with students and others, wherever possible, and the University of Portsmouth will take all reasonable steps to minimise disruption to students.

It is also possible that the University of Portsmouth may not be able to offer a module or course for reasons outside of its control, for example, due to the absence of a member of staff or low student registration numbers. Where this is the case, the University of Portsmouth will endeavour to inform applicants and students as soon as possible, and where appropriate, will facilitate the transfer of affected students to another suitable course.

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