School of **Computing**, **Engineering** & **Digital Technologies**

Transmedia, Digital Art & Animation

Learning Resources & Facilities



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Introduction

The School of Computing, Engineering & Digital Technologies at Teesside University is a centre of excellence across engineering, computing, games and animation, media, communications and the digital arts.

Our specialist engineering, digital production facilities and specialist teaching studios cover a range of disciplines and are all at the forefront of digital and technological innovation.

Computing Laboratories and Studios

We have more than 30 networked laboratories and studios across various buildings (Athena, Europa, Mercuria, Parkside, Phoenix and Stephenson) equipped to industry standards and running the very latest industry software. Dedicated facilities are provided for specialist areas such as animation & visual effects, computer science, concept art, digital media, film & television, photography, music & performance, games design and programming, computer networks and post-production (a comprehensive list of all our teaching space/studios can be seen in Appendix 1).

Considerable efforts have been made to ensure the accuracy of information provided. Applicants are advised that developments after the guide has been published may lead to omissions and inaccuracies in the information provided in this guide, for which the University disclaims legal liability. The information given in the course guide does not impose on the University any obligation to provide or to continue to provide, any resource, facility or amenity described in the guide. For latest information on university courses, facilities and learning resources, please visit the University web pages at tees.ac.uk, our contact us using scedt-enquiries@tees.ac.uk



Aurora House

Aurora House offers staff and students access to technical support for our programmes and facilities, our kit hub (and online equipment/ resource booking system), specialist Media production facilities, our TU-Can digital studio, TU-Xtra broadcast studios and our in house research and developer team.

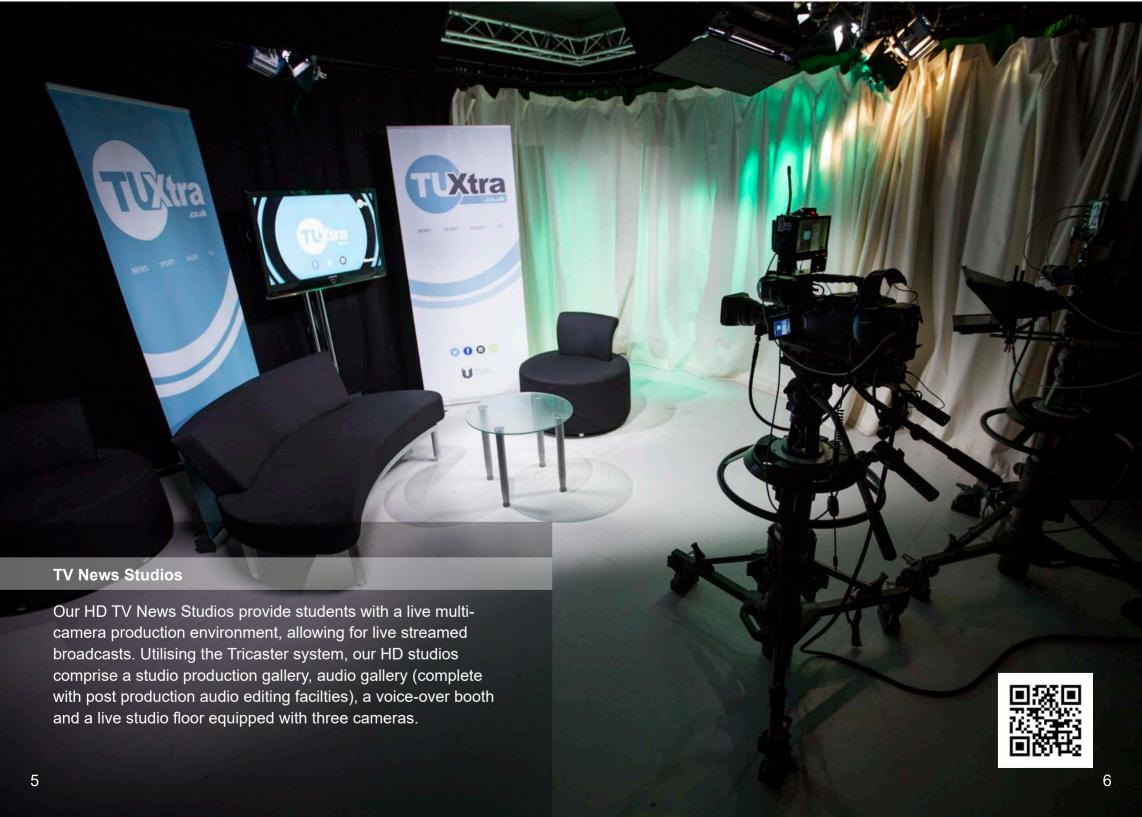
The facility boasts a range of specialist media facilities too, including; television studios, radio studios, post-production video/ audio editing facilities and equipment hire.

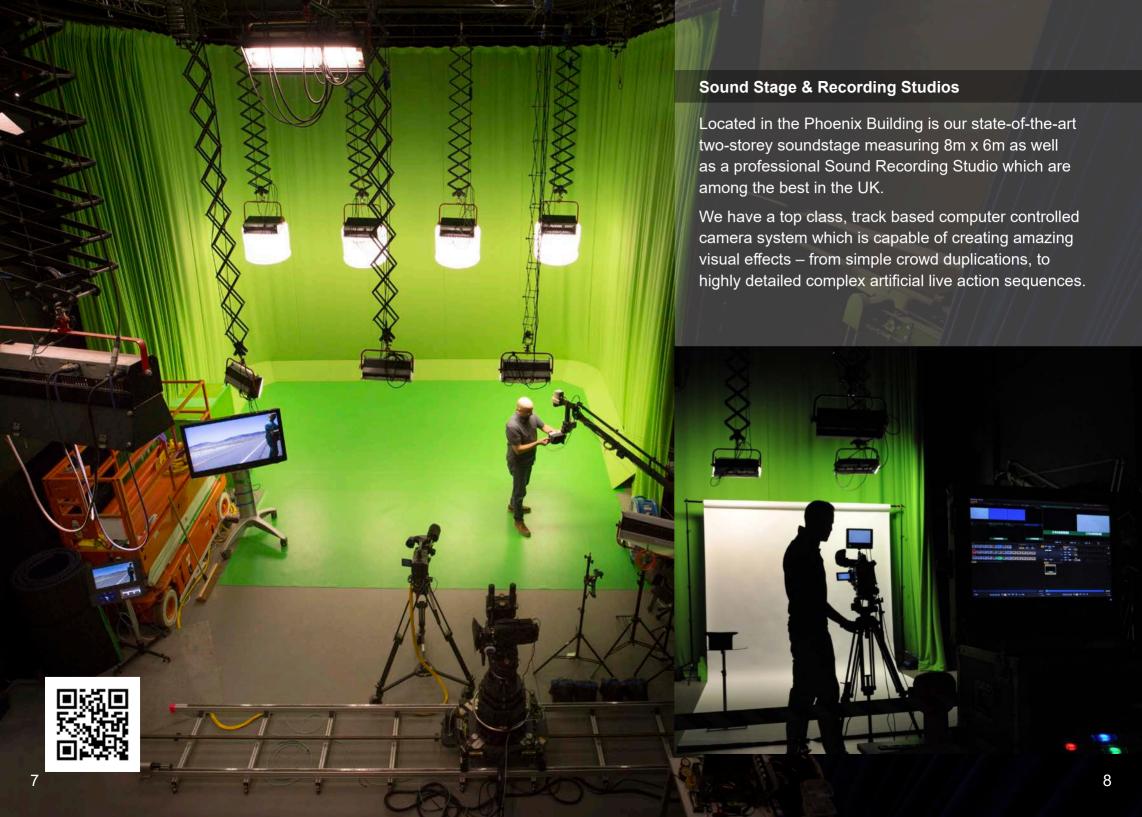
Aurora House Television Studio

The larger of our two TV studios provides a live High Definition TV broadcast studio environment and vision gallery. The studio floor is equipped with three broadcast cameras, Autocue hoods, a motorised Jib Arm, LED lighting rig, chroma green screen capability and a soundproof audio booth.

Our live TV studio is equipped with the Tricaster studio control software and manages the various live camera feeds from the studio floor, can produce virtual sets (using green screen keying), takes external online sources and can connect with our second TV studio (located in the Athena Building). All this hardware and software combined, allows users to produce high-end ambitious live broadcasts that can be streamed to various online sources (including YouTube and Facebook live).







Ground Floor Post-Production & Colour Grading Suites

Aurora house offers six self-contained post-production edit suites, complete with air-conditioning. These individual suites provide students with a comfortable space to complete post-production projects. These suites are bookable via the Facilities and Resources page (https://scedt-apps.tees.ac.uk).

Each suite comprises of an iMac, 40-inch UHD monitor and stereo sound system.

Post-Production software includes:

- Adobe Creative Suite
- Final Cut Pro X
- Davinci Resolve

Students have access to shared network storage across all our Media PCs and Macs in the form of EditShare. This allows the user to open, edit, playback and render large media files on any connected workstation in Aurora house, the Athena TV studio, and the Athena EditShare studios. Students are provided with this shared space for the duration of their programme of study.

Three of our ground floor edit suites incorporate a Colour Grading facility. These studios accommodate video editing, post-production, compositing and colour correction. It can then be encoded and mastered into as many formats needed for delivery, such as H.264 for Blu-Ray or DCP for cinema.



Aurora House Reception - Kit Hub

Our main reception and Kit Hub is where students and staff come to collect any bookable equipment and resources available within the school. We offer a wide array of industry standard broadcast media and computing equipment. All equipment is made available through our online booking system, Connect2 (https://scedtbookings.tees.ac.uk). Before collecting any kit, students are required to complete an online risk assessment, which is authorised by a tutor. The technical team are also on hand in the reception area of Aurora House. Here you can ask for assistance with software and hardware, book tutorials or any other support needs you may have.

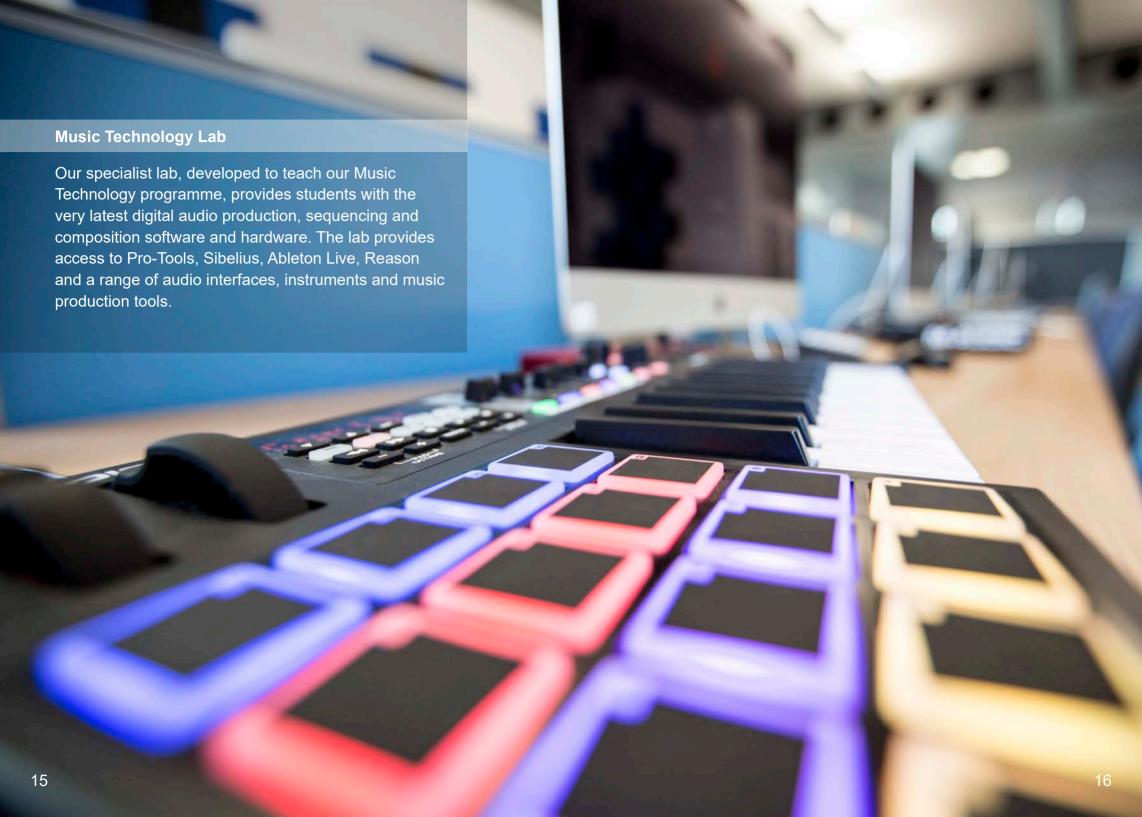
TU-Xtra Radio Studios

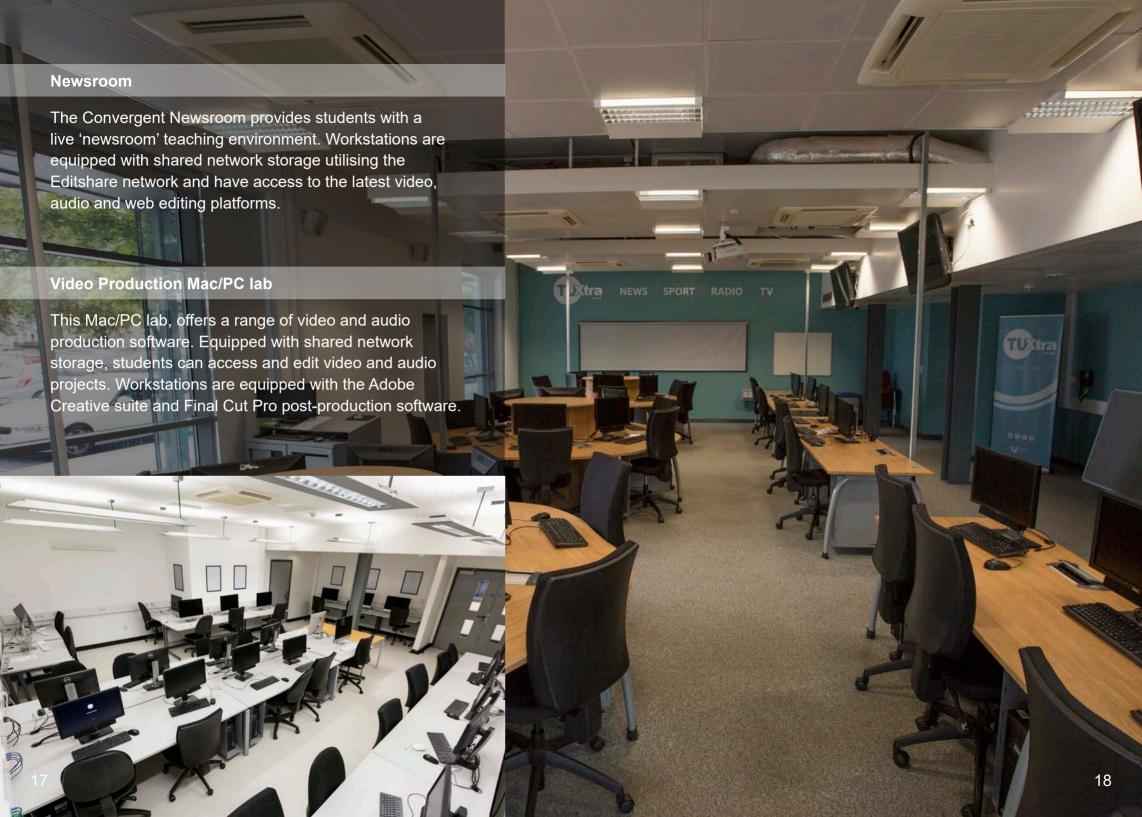
Two radio studios provide broadcast for tuxtra.co.uk, the campus online media platform, developed to support media programmes across the school. TU-Xtra broadcasts 24/7 during term time.

There are three studios. Studios 1&2 provide live broadcasting and newsgathering while Studio 3 manages scheduling and automation for broadcast.

Studio 1 contains two live PTZ cameras, allowing the radio studios to become live TV studios, which are vision mixed from a production gallery in studio 2 using the Tricaster system. Each of the studios is complete with Industry standard radio playout and scheduling software. Studios are complete with four microphone channels, telephone lines, playout software, newsgathering and automation software, CD decks and Aux inputs. Each studio is connected to allow for simulcast broadcasting.













Animation and Visual Effects [AVFX] Studios

Each studio has 20 student workstations and 1 tutor workstation, each with dual widescreen monitors and drawing tablets providing students with a dedicated and inspiring environment to produce 2D and 3D animation & VFX from the pre-production stage right through to post-production. Students have access to the latest versions of industry standard software such as Autodesk Maya, Nuke and Houdini. Pluralsight, an online learning support tool is also available.

The AVFX Suite also has a dedicated screening/meeting room for up to 12 people. Staff and students meet here to screen work and provide feedback on work in progress.

VR & Photogrammetry Studio

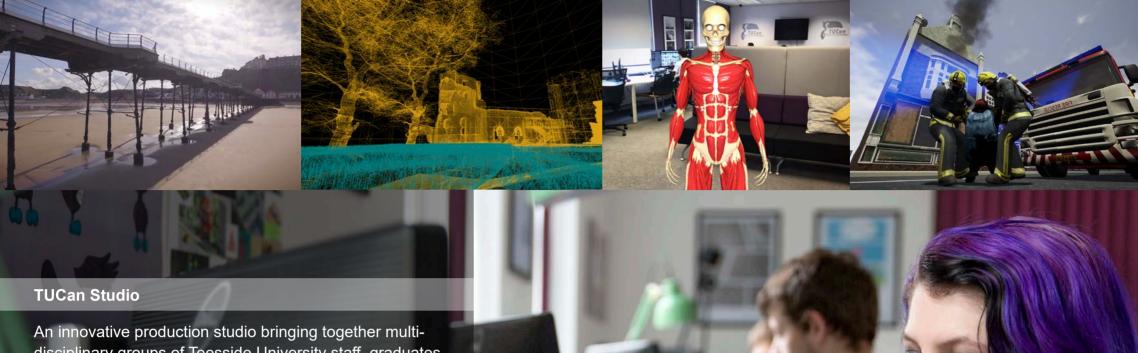
VR headsets provide an immersive view of a 3D environment or game.

The user can interact with the environment using game controllers, and can look around by moving their head.

Sensors in the headset track their position and gaze direction, although movement is limited by trailing cables.

The VR Studio currently has eight HTC Vive headsets with the latest SDK available for student use. The studio also houses a photogrammetry suite for the high resolution photography of real life objects for use in virtual 3D spaces.





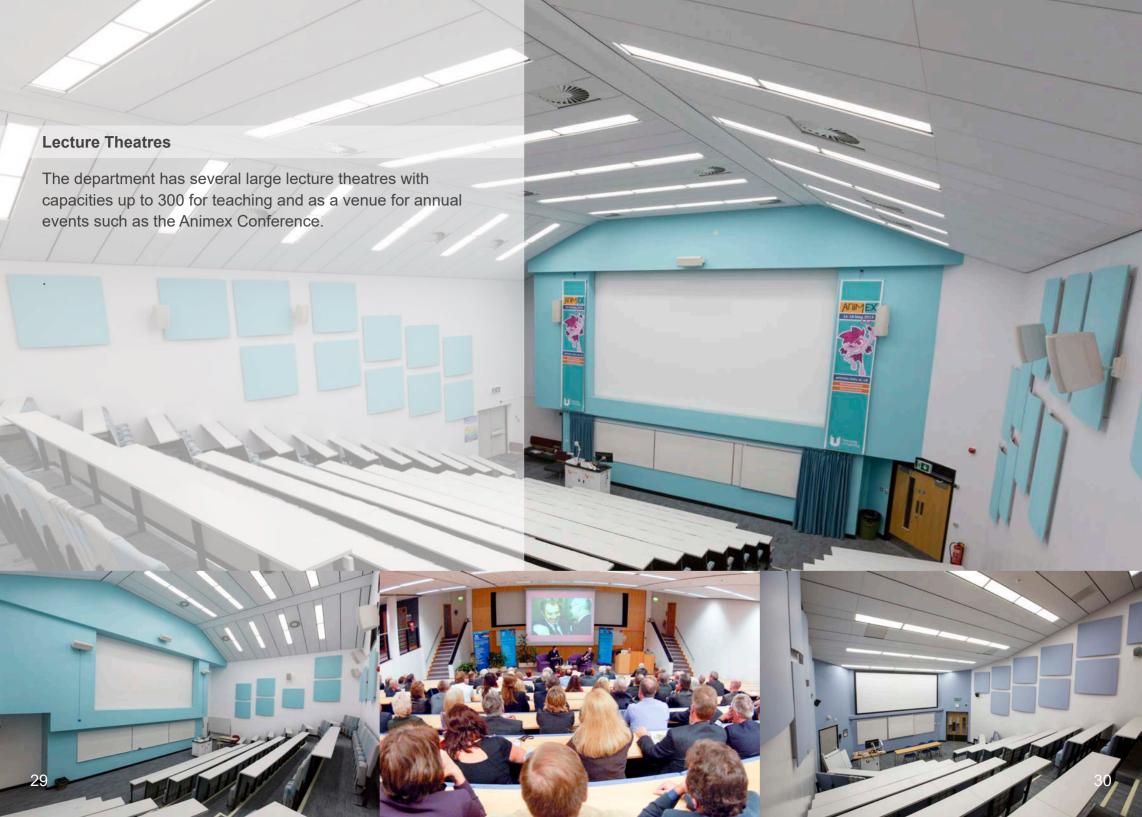
An innovative production studio bringing together multidisciplinary groups of Teesside University staff, graduates and students together under one roof to work on commercial digital projects for our external partners.

Based in the School of Computing, Engineering & Digital Technologies, we have expertise spanning across numerous creative digital areas including animation, media production, software and web development, VR and augmented reality experiences.

Together we can work with you to develop new products, proof of concepts or cutting edge research whilst giving our talented students the opportunity to develop essential work ready skills.

Live projects undertaken by the studio include AR and VR app development, video production, 360 immersive production, web design and software development. The studio can be found online at www.tucanstudio.co.uk







Drawing Studios

Life drawing takes place in the airy, open plan Drawing Studio and consists of a mixture of male and female life models supported by a tutor.

Tables, easels, drying racks, drawing boards and A2 grey board and A3 cartridge paper are all readily available along with a range of art materials such as acrylic and watercolour paints, putty rubbers, graded drawing pencils, coloured pastel sticks, graphite sticks, charcoal and specialised animation drawing pencils. Still life objects are available for compositional drawing.

In the adjacent room we have a second drawing area.
This studio is also used as a wet room space with large tables and double sinks allowing students to create models out of clay.

Traditional Animation Studio

This dedicated space has a small number of Epson GT Pro A3 scanners connected to computers running ToonBoom Harmony software for digital 2D animation.

We also have 20 A3 light boxes available for students to use.

Comics Studio

The Athena building is home to the comics lab, developed to teach students various forms of creative disciplines relating to comics and sequential design.

Appendix One: Studios & Laboratories

Athena

AG.06	Convergent Newsroom (PC Lab)	A2.07	Concept Art
AG.09	Broadcast News Studio	A2.08	Games Studio
AG.10a	Sound Control (Connected to TV	A2.09	Games Studio
	Control & Broadcast News Studio)	A3.02	Linux Studio & Digital Media
AG.10b	TV Control (Connected to Sound		Programming & Database Studio
	Control & Broadcast News Studio)	A3.04	Stop Motion
AG.11	Media Production Lab	A3.05	Drawing Studio
AG.12	Athena Edit Lab	A3.07	Drawing Studio
A2.01	Comics	A3.08	Digital Media Programming and
A2.03	Stop Motion		Database Studio with Editshare.
A2.05	Games Studio	A3.09	Games Studio
A2.06	Games Studio	A3.10	Games Studio

Aurora

AU1.04	TUCan Studio
AU0.05	Aurora TV Studio

Greig

G1.47 Meeting Room

Stephenson

IC0.18:	Enterprise Laboratory.
IC0.19:	Civil Engineering / Built
	Environment Laboratory.
IC0.26 /	0.28, Engineering Workshop
	and Foundry
IC0.33:	Electro-technology Laboratory.
IC0.34:	Control Systems Laboratory
IC0.35:	SCADA Laboratory
IC0.37A	Flight Simulation
IC0.37B	Thermo-fluids Laboratory
IC0.38	Mechanical Science Laboratory
IC0.39	SEM Laboratory
IC0.42	Applied Materials Laboratory
IC0.47A	Engineering Projects Laboratory
	(Formula Student, Electric
	Motorbike & Aerospace).

IC0.47B Power Engineering Laboratory

IC1.01a	Animation and Visual Effects
	Studio + Games Studio
IC1.01b	Animation and Visual Effects Studio
IC1.01c	Animation and Visual Effects Studio
IC1.01d	Meeting Room (Screening room)
IC1.60	Motion Capture
IC1.61	Virtual Reality
IC1.63	Computer Laboratory
IC1.65	Computer Laboratory
IC1.69	Electronics and Communications
	Laboratory
IC1.72	Computer Laboratory
IC1.73	Computer Laboratory
IC1.76	Computing Laboratory
IC1.77	Digital Media Programming and
	Database Studio

Europa

IT0.11	Final Year Studio	l l
IT0.13	MAC Studio	1
	(Mobile Programming)	
IT0.15	Linux Studio	
IT0.31	Traditional Animation Studio	
IT1.08	Digital Media Programming	1
	and Database Studio	1
IT1.10	Digital Media Programming	1
	and Database Studio	(
IT1.11	Linux Studio	(
IT1.30	Freelance Studio	(

Mercuria

MC0.04	Hall
MC0.06	Dance Studio
MC0.10	Music Studio

Middlesbrough Tower

M8.04	Hydrogen Project /
	Research Laboratory
M10.08	Research Laboratory

Orion Building

CE0.01	Distillation Process Laboratory
CE0.02	Process Laboratory
CE0.03	Open Access Computer Laboratory
CE1.01	Distillation Column Laboratory
CE1.02	Oil and Gas Engineering Laboratory
CE1.03	Open Access Computer Laboratory
CE1.13	Computer Laboratory
CE1.20	Process Engineering Laboratory
CE2.01	Distillation Column Laboratory
CE2.02	Multi-phase Separation Laboratory.

CE2.03 Open Access Computer Laboratory

IT1.35	Freelance Studio
IT1.31	Digital Media Programming
	and Database Studio
IT1.34	Collaborative Learning
	Environment Studio
IT2.34	Networks Studio
IT2.41	Networks Studio
IT2.42	Networks Studio
OL3	Concept Art Studio
OL8	Games Programming Studio
OL9	Games Programming Studio

Phoenix

PG.07	Music Lab
PG.16	Sound Stage
P2.10	Postgraduate Studio –
	Concept Art
P2.11	Postgraduate Studio

Parkside West

PSW0.22	Dark Room
PSW0.13	Photography Studio 1
PSW0.14	Photography Studio 2

Waterhouse

W2.01	Performance Prep Space
W2.02	Performance for Live &
	Recorded Media Studio

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