Session: 2022/23

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Title of Module: Interactive Des	sign for Smart Devic	es	
Code: COMP11015	SCQF Level: 11 (Scottish Credit and Qualifications Framework)	Credit Points: 10	ECTS: 5 (European Credit Transfer Scheme)
School:	School of Computing	, Engineering and Ph	ysical Sciences
Module Co-ordinator:	Costas Iliopoulos		
Summary of Module			
User Experience De in the modern digital computers including usability in general.	tional scope of Humar examples, the module aradigms, and the role and presented in an n HCI/UXD related top d the way people come ly advancing and it to s such as mass market ora of new innovative elop a range of gradu develop critical thinkin arch, innovations, res	a Computer Interaction e covers psychologica n approaches, usabilit of theory in user inte- integrated and cohere oics and contrubute to ucts, particularly the r municate, interact, so- uches every part of o et mobile technologica smartproducts. ate attributes . Source g and presentation sk earch thinking and co- ring, resilience and an e Human Computer In- that are becoming inc- he study of how peop ry, attention, percepti- ctor is that different us	n (HCI) and User al and social aspects by and evaluation, rface design. Topics ent way. Students are be the discussion ange of new smart cialise and work ur daily lives. Each al advancement, sing, reviewing and ills. The module will nsideration of ethical nbition will be interaction (HCI) and creasingly important ble interact with on, colour, and sers form different

- learning and retrieving knowledge and skills. In addition, cultural differences play a part.
- User interface technology changes rapidly, offering new interaction possibilities which previous may not have been available.
- Finally, User Experience (UX) as a discipline is evolving as user preferences change in response to technology advances. User expectations also changing with the use of digital technologies and tools such as smartphones and social media. Thus better understanding the user as well as the technology becomes essential.

Module Delive	ery Method				
Face-To- Face	Blended	Fully Online	HybridC	HybridO	Work-based Learning
\checkmark	\checkmark	\checkmark			

Face-To-Face

Term used to describe the traditional classroom environment where the students and the lecturer meet synchronously in the same room for the whole provision.

Blended

A mode of delivery of a module or a programme that involves online and face-to-face delivery of learning, teaching and assessment activities, student support and feedback. A programme may be considered "blended" if it includes a combination of face-to-face, online and blended modules. If an online programme has any compulsory face-to-face and campus elements it must be described as blended with clearly articulated delivery information to manage student expectations **Fully Online**

Instruction that is solely delivered by web-based or internet-based technologies. This term is used to describe the previously used terms distance learning and e learning.

HybridC

Online with mandatory face-to-face learning on Campus

HybridO

Online with optional face-to-face learning on Campus

Work-based Learning

Learning activities where the main location for the learning experience is in the workplace.

Campus(es) f	or Module De	livery					
	vill normally b ble student nun		e following ca	mpuses / or	by]	Distance/Online I	earning:
Paisley:	Ayr:	Dumfries:	Lanarkshire:	London:		Distance/Online Learning:	Other:
\checkmark						~	
Term(s) for	Module Deliv	very					
(Provided via	able student n	umbers perm	it).				
Term 1		Term 2		\checkmark	Те	rm 3	

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Learning Outcomes: (maximum of 5 statements)
L1. Critically appraise the interaction, information L2. Integrate theory with the design of these tech L3. Demonstrate appropriate	on of this module the student will be able to: ne interdisciplinary skills needed for interactive design, human computer visualisation, positive user experiences, and web design. In practice in demonstrating the cognitive and social issues that underpin innologies priate skills in the design of interactive products that enhance and extend nicate, interact, and work
Employability Skills an	nd Personal Development Planning (PDP) Skills
SCQF Headings	During completion of this module, there will be an opportunity to achieve core skills in:
Knowledge and Understanding (K and U)	SCQF Level 11. Practical grounding for interaction designers and usability engineers to develop current and next generation of interactive technologies. A right blended set of skills from psychology, human-computer interaction, user experience design (UXD), web design, computer science, information systems and entertainment.
Practice: Applied Knowledge and Understanding	SCQF Level 11. Practical design of interactive products using appropriate development tools and techniques.

Generic Cognitive skills	SCQF Level 11. Practical design of inter- tools and techniques.	active products using appropriate development
Communication, ICT and Numeracy Skills	and the kinds of technol	nding of the capabilities and desires of people ogy available to interaction designers, as well identify requirements and evolve them into a
Autonomy, Accountability and Working with others	SCQF Level 11. Interaction and commur	nication as a member of a team
Pre-requisites:	Before undertaking this following:	module the student should have undertaken the
	Module Code:	Module Title:
	Other:	
Co-requisites	Module Code:	Module Title:

* Indicates that module descriptor is not published. [Top of Page]

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Learning and Teaching

Teaching and Learning is in line with the university strategy. Research skills are enhanced through independent guided study including web-based materials. Distance learning (DL) students will be encouraged to make full use of appropriate collaboration facilities within the VLE. All students will be encouraged to use discussion forums and video conferencing where appropriate. Lectures and tutorials will be delivered face to face and on-line as appropriate for student groups. Timing of on-line sessions will be set at times appropriate to the cohort of DL students.

Learning Activities During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	Student Learning Hours (Normally totalling 200 hours): (Note: Learning hours include both contact hours and hours spent on other learning activities)
Lecture/Core Content Delivery	12
Tutorial/Synchronous Support Activity	6
Laboratory/Practical Demonstration/Workshop	6
Asynchronous Class Activity	26
Independent Study	50
	100 Hours Total

**Indicative Resources: (eg. Core text, journals, internet access)

The following materials form essential underpinning for the module content and ultimately for the learning outcomes:

Interaction Design: Beyond Human-Computer Interaction 5th edition (paperback), Rodgers Y, Sharp H, Preece J, Publisher: John Wiley & Sons, 2019, ISBN 978-1119547259

Designing Interfaces: Patterns for Effective Interaction Design 3rd edition (paperback), Tidwill J, Brewer C, Valencia-Brooks A. Publisher: O-Reilly, 2020, ISBN-13: 978-1492051961

The Joy of UX: User Experience and Interactive Design for Developers, Addison-Wesley Professional, 2016, ISBN: 978-0134276717

Smashing UX Design: Foundations for Designing Online User Experiences, Allen J, Chudley J, Publisher: John Wiley & Sons, 2012, ISBN-13: 978-0470666852

The Design of Everyday Things: Revised and Expanded Edition, Norman D, MIT Press, 2013, ISBN: 978-0262525671

Human Computer Interaction, Alan Dix, Janet Finlay, Gregory Abowd, Russell Beale, Publisher: Prentice Hall, 2004, ISBN: 0130461091

All module materials which are available in electronic format and are placed on the Moodle VLE. These include lecture slides, tutorials, practical sessions, assessments, and a variety of additional reference materials and links to various web sites.

A number of web sites will be required as part of the course and on-line materials.

Suitable software for interface design such as Adobe XD, Axure, Balsamiq, Microsoft Visual Studio, Xamarin.

Internet access is needed to carry out practical sessions and practical coursework.

(**N.B. Although reading lists should include current publications, students are advised (particularly for material marked with an asterisk*) to wait until the start of session for confirmation of the most up-to-date material)

Engagement Requirements

In line with the Academic Engagement Procedure, Students are defined as academically engaged if they are regularly engaged with timetabled teaching sessions, course-related learning resources including those in the Library and on the relevant learning platform, and complete assessments and submit these on time. Please refer to the Academic Engagement Procedure at the following link: <u>Academic engagement procedure</u>

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Supplemental Information

Programme Board	Computing
Assessment Results (Pass/Fail)	No
Subject Panel	Business & Applied Computing
Moderator	Ying Liang
External Examiner	C Luo
Accreditation Details	Not applicable

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Assessment: (also refer to Assessment Outcomes Grids below)

Individual research-focussed written report(100%)

(N.B. (i) Assessment Outcomes Grids for the module (one for each component) can be found below which clearly demonstrate how the learning outcomes of the module will be assessed.

(ii) An **indicative schedule** listing approximate times within the academic calendar when assessment is likely to feature will be provided within the Student Handbook.)

Assessment Outcome Grids (Footnote A.)

Component 1	L				
Assessment Type (Footnote B.)	Learning Outcome (1)	0	Learning Outcome (3)	Weighting (%) of Assessment Element	Timetabled Contact Hours
Dissertation/ Project report/ Thesis	~	~	\checkmark	100	0
Combined Total For All Components			100%	0 hours	

Footnotes

A. Referred to within Assessment Section above

B. Identified in the Learning Outcome Section above

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Note(s):

- 1. More than one assessment method can be used to assess individual learning outcomes.
- Schools are responsible for determining student contact hours. Please refer to University Policy on contact hours (extract contained within section 10 of the Module Descriptor guidance note).

This will normally be variable across Schools, dependent on Programmes &/or Professional requirements.

Equality and Diversity

The module is appropriate for all students. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School. <u>UWS Equality and Diversity Policy</u>

(N.B. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School)