

Module Details	
Module Title	Human Computer Interaction
Module Code	COS6029-B
Academic Year	2021/2
Credits	20
School	Department of Computer Science
FHEQ Level	FHEQ Level 6

Contact Hours	
Type	Hours
Lectures	12
Tutorials	24
Interactive Learning Objects	24
Directed Study	140

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 1

Module Aims
The aim of the module is to impart an understanding of: (i) the challenges in Human Computer Interaction (i.e. HCI), (ii) methods and techniques of interaction design, and (iii) stages of the usability engineering cycle.

Outline Syllabus	
1) Introduction to HCI.	
2) Requirements analysis for interactive systems design.	
3) Methods of data collection.	
4) Design methods and principles of co-design.	
5) Low-fidelity and high-fidelity prototyping.	
6) Effective aspects of design.	
7) Cognition and perception limits.	
8) Embodied, situated and distributed cognition.	
9) Practical case studies.	

Learning Outcomes	
Outcome Number	Description
01	Understand the challenges of user-centred and contextual design.
02	Understand the main HCI design frameworks and evaluation paradigms
03	Recognise usability principles that contribute to effective design
04	Appreciate the implications of human cognition and perception limitations on design
04	Critically appraise design trade-offs in existing software
06	Rationalise about the design space of new software and develop the ability to judge the criticality of different design dimensions
07	Use a variety of methods to analyse the requirements for, design, develop and evaluate novel user interfaces
08	Develop interpersonal skills while communicating and collaborating in a team on the assigned module project

Learning, Teaching and Assessment Strategy
Lectures and lab sessions make up the contact time. The lectures will present the relevant theory underpinning the subject and the practical will enable students to apply the theory to practical situations. Students are expected to engage in class discussion and presentations. Assessment is based on a group project (60%) and coursework (40%). Students are encouraged to team up with 1-2 peers to form a project group. Marking is based on individual contributions within each team. Supplementary assessment requires an individual project to be submitted, which will account of 100% of the mark.

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Coursework	Incremental homework assignments	40%
Summative	Coursework	Project Final Report	60%
Referral	Coursework	Individual Report	100%
Formative	Presentation	Group project presentation	N/A
Formative	Coursework	Incremental homework assignments	N/A

Reading List
To access the reading list for this module, please visit https://bradford.rl.talis.com/index.html

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.

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