STAFFORDSHIRE UNIVERSITY MODULE DESCRIPTOR

16/6/2006

Code: CE00321-2 Version: 2 Approval Status: Valid Current

Title: SYSTEM DEVELOPMENT METHODS

Section: Computing, Engineering & Technology Field: IABS Level: 2

Contact	Email	VLE
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Pattern Of Delivery

Credits	Contact Hours	Independent Study Hours	Total Learning Hours	Pattern	Year Span	Period	Study %	Initial Grid
15	36	114	150	1	1	1	100	Υ

Contributing Faculty

Computing, Engineering & Technology 100%

Site	Cost Centre	Cost Centre Description	Subj	Subject Description	Subj %	Hesa Subi %
STAFFORD	1 /5	Information Technology and Systems Sciences	G900	Others in Mathematical and Compu	100	100

Registration Conditions

CE00308-1

Date Approved	Date Implemented				
20/9/2005	1/8/2005				

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Learning Outcome

1. EXPLAIN THE PURPOSE, STRUCTURE AND SCOPE OF A TRADITIONAL METHODOLOGY AND SELECT AND JUSTIFY APPROPRIATE METHODS OF ANALYSIS, DESIGN AND IMPLEMENTATION FOR A PARTICULAR COMPONENT OR APPLICATION, BE IT SDLC, MULTIMEDIA OR WEB BASED.	Knowledge & Understanding
	Problem Solving
2. ANALYSE AND DEVELOP DIFFERENT VIEWS OF A SYSTEM	Analysis
	Problem Solving
3. APPLY STRUCTURED ANALYSIS, DESIGN AND IMPLEMENTATION TECHNIQUES TO DEVELOP A SIMPLE PROTOTYPE, WITH A SUITABLE INTERFACE, FROM CONCEPTION THROUGH TO IMPLEMENTATION	Analysis
	Application
	Problem Solving
4. DEMONSTRATE A KNOWLEDGE OF THE FUNDAMENTAL ISSUES OF HCI BY APPLYING INTERFACE DESIGN PRINCIPLES TO A PROTOTYPE	Application
	Knowledge & Understanding

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Module Details	T				
Indicative Content	* Structured Techniques for analysis and design * Typical techniques to be included are user re models and enquiry access paths * Correlation of different views of a system, for emodels * Use of CASE tool to check for consistency * Introduction to the concept and use of a Datab * Implementation of a Database to include quer specification * HCI overview, user skills and characteristics * Perceptual ability including perception, cogniti * Interface design considerations, including icor * Task analysis and interface evaluation * A comparison of multimedia and web-based a development of a prototype.	example, proc pase Managen ies, forms and fon and memons, screen layo	pture, process ess- data, proc nent System reports to mee ry outs and interac	models, data models, ess - event, data - event tuser requirement etion styles	ent
Assessment Details	A GP ASSIGMT weighted at 50%. An EXAM le A group assignment weighted at 50% - to const the techniques outlined above assessing learning more than 30 sides of A4. An examination length 2 hours weighted at 50%	truct a prototyping outcomes 1	pe that satisfies 1, 2, 3 and 4. A	s user requirements folkssignment length to be	
Learning Strategies	Module delivery is 2 lectures and 1 tutorial per of this module provides in-depth study of a traditional implementation through a case study. Practical work will be based on a case study, we simple prototype. Integration of principles of HCI is achieved with A discussion of alternative approaches for multithe end of the module. Pointers to useful resources and appropriate do	onal approach orking in smal in the prototyp imedia and we	l teams, to ana e produced. b-based appro	lyse, design and imple	owards
Prospectus Information	This module will build upon the Systems Analys discusses how to use structured techniques an implement a system that utilises a database. A considered. Multimedia and web-based approain a small group to design and implement a sys	d a method su spects of HCI aches will be d	ch as SSADM relevant to this iscussed. For	to analyse, design and type of system will be the assignment you wi	d e ill worl
Referring to Texts	Essentials of Systems Analysis and Design, 2nd Hall, ISBN: 0131211927 Interaction Design Beyond Human Computer In (Essential Reading), ISBN: 0471492787 Information Systems Development, D Avison &	nteraction, Pre	ece, Rogers &	Sharp 2002, Wyllie	
Accessing Resources	A proprietary CASE tool such as SELECT SSA A proprietary database tool such as MS Access				

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Module Details

Special Admissions Requirements

Prior study of level 1 Systems Analysis and Design or equivalent.