Form 20

Heriot-Watt University - Module Descriptor Template (RAY)

Version 3.0 (2007/2008)

Module Title	Systems Programming and Scripting	School	Mathen	Mathematical & Computer Sciences				On or Off- Campus	On
Module Co-ordinator	Greg Michaelson	SCQF Level	11	Module Code	F21SC	Semester	1	Credits	15

Co	-ordinator	Level		Code							
1.	Pre-requisites	Programming skills in a language such as C or Java	-								
2.	Linked Modules (specify if synoptic)	None									
3.	Excluded Modules	None									
4.	Replacement Module	Code: Date Of Replacement:	5.	Availability a Elective	s an	Yes	No _				
6.	Degrees for which this is a core module	MSc Computer Systems Management									
7.	Aims										
* * *	 ◆ To develop proficiency in common shell command languages; ◆ To develop proficiency in common scripting languages; ◆ To gain familiarity with common system/shell level software tools; 										
8.	Syllabus										
* * *	Programming for concur Programming in common Programming in a major Standard libraries (e.g.	ern systems language e.g. C, C++, C# rrency e.g. processes, threads, libraries on system shell languages e.g. DOS commands, ksh r scripting language e.g. Perl, Javascript l/O, GUI) and tools (e.g. compilers, debuggers, filters) nent combination e.g. pipes, sockets, foreign function			& Windows						
	,	U Core Skills: Employability and Professional Car		· ·							
Su	• A	ppreciation of role of different programming paradigm echnical proficiency in advanced techniques in different bility to choose/deploy/combine appropriate language	s in nt pi	rogramming par	naging syste	ems		arning)			

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Co-ordinator	_	Level		Code					

Personal Abilities	Autonomous pUnderstandingAppreciation of	cial & Professional Prace problem analysis/solution g of core characteristics of f role of "language as glue key abstractions across p	contemporary ope ewear" in configurin	rating systems ng/maintaining sys		ng with Others Commun	ication, Numera	acy & ICT
10. Assessment M	ethods				1	1. Re-assessment Method	ls	
N	lethod	Duration of Exam (if applicable)	Weighting (%)	Synoptic modu	ules?	1		of Exam
Assessed coursev	vork		100%		Α	ssessed coursework		
					10.00.00.00.00.00.00			
12. Date and Versi	on	<u>'</u>					· .	
Date of Proposal	8/2/2008	Date of Approval by School Committee			te of plementa	September 2008	Version Number	1.0