

COMP08026 Object Oriented Software Development

Full Title	Object Oriented Software Development			
Status	Uploaded to Banner	Start Term	2012	
NFQ Level	08	ECTS Credits	10	
Module Code	COMP08026	Duration	13 weeks - (13 Weeks)	
Grading Mode		Department	Comp Science & Applied Physics	
Module Author	Dr. John Healy			

Module Description

Introduction to programming (using an Object Oriented approach -specifically Java), assuming little or no previous experience in programming.

=	Learning Outcomes On completion of this module the learner will/should be able to:
1.	Demonstrate an understanding of the core concepts of object-oriented programming
2.	Implement a software application using the Java programming language utilising core object-oriented programming concepts, and develop problem solving skills as part of this process
3.	Design an object-oriented software application in Java
4.	Test and debug an object-oriented software application
5.	Understand the universality of the Object-Oriented paradigm and its applicability to programming languages such as C++, Java, C# / .NET.

Indicative Syllabus

Programming Fundamentals (40%): Software development using types, variables and operators; operator precedence, literals, control structures for decision and iteration, I/O. arrays, Exception handling.

OO programming (50%): OO programming using objects and classes; methods and parameter passing, pass by value and pass by reference, constructors. JVM structure: heap and stack.

Code design (10%): Code design, code style and quality, testing and debugging

Teaching and Learning Strategy	
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Assessment Strategy	I

Repeat Assessment Strategies	

Indicative Coursework and Continuous Assessment:		100 %		
Form	Title	Percent		Learning Outcomes
			Week (Indicative)	_

UNKNOWN	Assignment Design, develop and test an object- oriented application	50 %	End of Term	2,3	
UNKNOWN	Practical Evaluation Assessment of knowledge of programming fundamentals	50 %	OnGoing	1,4,5	

Full Time Delivery Mode Average Weekly Workload:		6.00 Hours			
Туре	Description	Location	Hours	Frequency	Weekly Avg
Practical	Programming Practical	Computer Laboratory	6	Weekly	6.00

Literary Resources

- Objects, Abstractions, Data Structures & Design Using Java Koffman, Wiley, 2005. ISBN: 0-471-46756-1
- Head First Java, 2nd Edition, K. Sierra, B. Bates, O'Reilly Media, 2005, ISBN: 059-6009208

Other Resources None

Additional Information

None

Programme Membership

GA_KSOFG_L08 201700 Higher Diploma in Science in Software Development