IT6008

Computer Programming 1



Course Aim To provide students with an overview of programming, problem-solving, testing and debugging. It explores many fundamental programming concepts with emphasis on applying theoretical knowledge to a practical situation. It will introduce students to problem-solving with a view to meeting user requirements and designing solutions to programming problems.

Short Title		Version	3
Faculty	EDICT	Effective From	February 2016
		NQF Level	6
Credits	15	Student Contact hrs	90
Pre-requisites	None	Self-directed hrs	60
Co-requisites	None	Other directed hrs	
Anti-requisites	None	Total learning hrs	150

Learning	On successful completion of this course, students will be able to:	NQF Sub-strand
Outcomes	1 Describe and use primitive data types and basic data structures	Theoretical Understanding
	2 Describe the sequence of steps that a computer takes to translate source code into executable code	Theoretical Understanding
	3 Use diagrams to design solutions for programming problems from a problem description	Generic, Problem Solving and Analytical Skills
	4 Create and test programming solutions to problems using the Java programming language in accordance with best practice, industry standards and professional ethics and following programming and documentation conventions	Practical Application of knowledge
	5 Analyse and debug existing programs by following a test plan	Generic, Problem Solving and Analytical Skills