



MCAST

MQF Level 4

**IT4-04-21
IT4-04-21G**

Advanced Diploma in IT (Software Development)

Course Specification

Course Description

This course is the first step towards becoming a software developer. It will provide the learners with the core software development skills along with the necessary knowledge for the design and development of software applications. The first year of this course will be common for all advanced diploma students. During the second year, students will focus on software development subjects such as: server side and client side scripting; database design and development; and mobile application development.

Programme Learning Outcomes

At the end of the programme the learner will be able to:

- 1. Identify the appropriate software infrastructure for a given requirement;*
- 2. Understand the core programming concepts and methodologies;*
- 3. Integrate front-end and back-end systems;*
- 4. Rigorously test software application according to a given methodology.*

Entry Requirements

MCAST Diploma in IT

or

MCAST Diploma in iGaming

or

4 SEC/O-Level passes/SSC&P (Level 3) passes

Compulsory: Mathematics and one subject from Computer Studies, Physics, Information Technology

Preferred: English Language

Current Approved Programme Structure

Unit Code	Unit Title	ECVET	Year
ITDBS-406-1501	Database Concepts and Design	6	1
ITSYS-406-2003	Computer Systems	6	1
ITSFT-406-1501	Fundamentals of Scripting	6	1
ITSFT-406-2000	Logic Programming	6	1
ITNET-406-2002	Networking Concepts	6	1
ITWEB-406-1501	Website Design	6	1
ITSYS-406-1503	Embedded Systems	6	1
ITMMD-406-1501	Introduction to Multimedia Design	6	1
CDKSK-406-2001	English	6	1
CDKSK-406-2007	Mathematics	6	1
ITSFT-406-2005	Programming Concepts	6	2
ITSFT-406-2001	Introduction to Mobile Applications Development	6	2
ITSFT-406-2002	Programming for Computer Games	6	2
ITSFT-406-2004	Introduction to Object Oriented Programming	6	2
ITSFT-406-1506	Client Side Scripting	6	2
ITDBS-406-1502	Relational Databases	6	2
ITSFT-406-1508	Server Side Scripting	6	2
ITPRJ-406-2011	Project	6	2
CDKSK-402-2104	Community Social Responsibility	2	2
CDKSK-404-1915	Employability and Entrepreneurial Skills	4	2
CDKSK-406-2000	Critical Thinking	6	2
Total ECVET		120	/