

ADVANCED DIPLOMA IN COMPUTING: SOFTWARE DEVELOPMENT

Computing Software Development allows students to develop a range of specialist technical software development skills and knowledge in programming and systems development. Learners will gain academic, technical, and professional training leading to the skills necessary to design, implement, support, evaluate or manage IT systems in a vast range of industries.

Year 1

- Computer Systems Fundamentals
- Developing Software: Introduction
- Software Development: Programming Foundations
- Team Working in Computing
- Troubleshooting Computing Problems
- Mathematics for Computing 1
- Computer Networking: Fundamentals
- Professionalism and Ethics in Computing
- Project Management for IT
- Computing: Graded Unit 1 (Exam)
- Web Technologies 1: HTML and CSS
- Software Development: Developing Small Scale Standalone Applications

Year 2

- Relational Database Management Systems
- Software Development: Data Structures
- Software Development: Object Oriented Programming
- Systems Development: Object Oriented Analysis and Design
- Client Operating Systems
- Managing a Web Server
- Computing: Software Development: Graded Unit 2 (Project)
- Software Development: Event Driven Programming
- User Interface Design
- Mathematics for Computing 2

Career Opportunities:

Software Developer

Systems Programmer

Database Administrator

IT Technical Officer

