Computer Science
Level 3: AS / A2

OCR

INTRODUCTION:

Computer Science is about understanding how computer systems work. Computers pervade every aspect of modern life. The microprocessor which lies at the heart of every computing system is found absolutely everywhere, from the PC on your desk to laptops, PDAs, mobile phones, cars and microwave ovens. At the end of the course you will have an excellent understanding of how it all works.

ENTRY REQUIREMENTS / SUITABILITY:

Grade B Computer Science

or

Grade 6 or above in Mathematics or B (6) or above in Science

CONTENT:

You will cover the following topics:-

- The Components of a Computer System, Software, Hardware, Data Representation, Structure and
- Management in Information Systems, Data Transmission, Implications of Computer Use, Designing
- Solutions to Problems, the Structure of Procedural Programs, Data Types and Data Structures,
- Common Facilities of Procedural Languages, Writing Maintainable Programs, High Level and Low
- Level Programming and Databases.

LEADS TO:

Students can go on to successful careers in a wide range of organisations including banking, finance, management, and the major software houses, where they work mainly on analysis, design, implementation and maintenance of software applications and systems.

ASSESSMENT:

1) Information Systems — Exam paper — 60% weighting

2) ICT Project — Coursework — 40% weighting