

## GCE Software Systems Development

Software Systems Development is an applied qualification in which you develop knowledge, understanding and skills in the development of software applications through practical application. The ability to write computer programs in languages that are used widely in industry is one of the most valuable skills to have in the world today. Knowing languages such as C# allows you to program and develop applications on a range of platforms such as desktops and mobiles.

### What you will be studying (course content structure / modules / assessments)

AS1 1: Introduction to Object Oriented Development	AS2: Event Driven Programming
<p>In this unit you will develop a thorough understanding of object oriented systems.</p> <p><i>You will learn about:</i></p> <ul style="list-style-type: none"> <li>• Software.</li> <li>• Defining Data.</li> <li>• Program Control Structures.</li> <li>• Objects.</li> <li>• Data Structures.</li> <li>• Exception Handling.</li> <li>• Managing Input/Output.</li> <li>• Testing an Object Oriented Application.</li> </ul>	<p>In this unit you will learn how to develop and implement object oriented technologies in an event driven environment such as creating an application with an appropriate user interface.</p> <p><i>You will learn about:</i></p> <ul style="list-style-type: none"> <li>• Defining Graphical User Interface (GUI) Objects.</li> <li>• Understanding Events.</li> <li>• Using Multiple Forms.</li> <li>• Designing an Event Driven Application.</li> </ul>
<p>Assessment: Written examination <b>2 hours</b> 50% of AS / 25% of A Level</p>	<p>Assessment: Coursework 50% of AS / 25% of A Level</p>
A2 1: Systems Approaches and Database Concepts	A2 2: Implementing Solutions
<p>This unit will provide you with a thorough understanding of the reasons for systems development. You will also be introduced to database concepts, enabling you to understand relational database systems.</p> <p><i>You will learn about:</i></p> <ul style="list-style-type: none"> <li>• Reasons for Systems Development.</li> <li>• Systems Methodologies.</li> <li>• Managing Projects.</li> <li>• Testing.</li> <li>• Database Concepts.</li> <li>• Entity Relationship (ER) Models.</li> <li>• Normalisation.</li> <li>• Structured Query Language (SQL).</li> </ul>	<p>In this unit you will learn to design and build a solution to a given problem using an RDMS through an event driven programming environment.</p> <p><i>You will learn about:</i></p> <ul style="list-style-type: none"> <li>• Applying Project Management Techniques to the Development Process.</li> <li>• Selecting a Systems Approach to the Solution of a Business Problem.</li> <li>• Documenting the Design of the Solution and Testing the Design.</li> <li>• Developing and Implementing a Desktop Solution Using an RDMS through an Event Driven Programming Environment.</li> <li>• Testing the Solution.</li> <li>• Evaluating the Solution.</li> </ul>
<p>Assessment: Written examination <b>2 hours</b> 50% of AS / 25% of A Level</p>	<p>Assessment: Coursework 50% of AS / 25% of A Level</p>