

Course Overview

This course is designed for students who are interested in game development. It includes the design and implementation of a game, creating a website using cascading style sheets and Javascript and project planning using IT. Students have the opportunity to study the communication and employability skills for IT, focus on computer components and operating systems, and recommend a computer system for a business purpose. The course will also further develop problem solving and project management skills that are needed in other areas of study.

Course Activities

In the first year the students will learn communication skills and attributes that are valued by employers, examine internal components of a computer and design a computer game that will be implemented later in the course. In the second year they will learn how to write code for different aspects of a computer game as well as developing websites.

They will use CSS and JavaScript to create sophisticated layouts and interactivity on web pages.

Components of Course

Year 1

Unit 01 – Communication and Employability skills for IT

Unit 02 – Computer Systems

Unit 40 – Computer Game Design

Year 2

Unit 17 – Project Planning with IT

Unit 20 – Client-side Customisation of Web Pages

Unit 22 – Developing Computer Games

There are 2 mandatory units:

- Communication and Employability skills for IT
- Computer systems

There are 4 optional units taken over 2 years:

- Computer Game Design
- Project planning with IT
- Client-side customisation of web pages
- Developing computer games

Teaching Methods

A variety of teaching methods are used. Students learn through watching demonstrations, presentations, practical skills and group discussions. GameMaker is used for the implementation of the game and Visual Studio for website. Excel is used in creating the Gantt charts for the project planning aspect of the course.

Course Outline

Coursework - 100%

Exam Board

Edexcel

Entry Requirements

A minimum of five GCSEs at Grade 4 or above including English and Maths.

Student Testimonial



"Studying and learning the techniques and methods used in ICT has been very fun and interesting.

It has made me interested in continuing it after I have finished college and has made me want to have a career in the subject.

After college I hope to do an apprenticeship in the field of ICT so I can further my knowledge and understanding of the subject"

Charley Hume

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