Course Title:	Edexcel GCSE COMPUTER SCIENCE
Title of qualification to be gained (if any):	GCSE in Computer Science
Awarding Body (if any):	Pearson's Edexcel

Essential materials:
All materials will be provided by the UTC.

Course Aims
This course will give students a real, in-depth understanding of how computer technology works. Student will no doubt be familiar with the use of computers and other related technology. This course will give them an insight into what goes on 'behind the scenes', including computer programming. It will also develop critical thinking, analysis and problem solving skills that students will be able to transfer to other fields.

Course Description
During the course students will complete two units: Unit 1: Principles of Computer Science Unit 2: Practical Programming

Main topics covered
Problem Solving, Programming, Data, Computers, Communication, Networks and Internet, The Bigger Picture

Learning Outcomes
By the end of the course learners will be able to:

The aims of the Pearson Edexcel Level 1/Level 2 GCSE in Computer Science are to enable learners to:

- develop knowledge and understanding of the fundamental principles and concepts of computer science
- develop and apply computational thinking skills to analyse problems and design solutions across a range of contexts
- gain practical experience of designing, writing, and testing computer programs that accomplish specific goals
- develop the ability to reason, explain and evaluate computing solutions
- develop awareness of current and emerging trends in computing technologies
- develop awareness of the impact of computing on individuals, society and the environment, including ethical, legal and ownership issues
- communicate computer science concepts and explain computational solutions clearly and concisely using appropriate terminology

Teaching and learning methods used
Discussions, Group work, Programming, Presentations, Interactive Games, Videos, The SOLO Digital Taxonomy strategy.

How your work will be assessed
Regular Quizzes, 'Think, Pair, Share' Discussions, tests and exams. Students will be regularly set short online assessments, which are designed to assess their understanding of the theoretical elements of the subject. In addition to this they will complete worksheets and exam questions. The final GCSE mark is made up of two components: 1. Unit 1 - Written Paper (2 hours – 75%) 2. Unit 2 - Controlled Assessment (15 hours – 25%) The controlled assessment tasks have replaced what was traditionally referred to as coursework. All of the controlled assessment tasks must be completed in a supervised environment. The maximum time allowed for completing each controlled assessment is 15 hours. Students will complete the Unit 2 controlled assessment during the spring term of Year 11.
Suggested progression routes
Students can progress from this qualification to a GCE in Computing or the Pearson BTEC National Qualifications in ICT.