

# Computer Science

## Programming Languages and IDE -

Understanding of High/Low Level Language.

Understanding of Translators and Interpreters looking into IDE's.

## Producing Robust Programming -

Creating programs that can withstand external threats

## Boolean Logic -

Understanding about the 3 Logic Gates: AND, OR and NOT. Input and Outputs of circuits via Truth Table

## System Software -

Look into different Operating Systems and their functions

## LSEC -

Understanding of the legal, Social, Ethical and Cultural implications within the world of technology and computing.

## System Architecture -

How the CPU, Cache and Ram work together

## Memory and Storage -

Introduction to the 3 types of storage

## Algorithms -

Understanding of the different types of sorting and searching and using algorithms o sets of data

## Programming Fundamentals -

Introduction to programming concepts: Selection, Iteration, Operators, Data Types and File Functions

## Network Connections and Protocols -

How a network connects devices together

## Network Security -

How network breaches can take place and how to protect your system