



IB Computer Science - Overview

The IB Computer Science course provides students with a comprehensive understanding of computer science principles while preparing them for further studies and careers in technology-related fields. Utilising a vast curriculum, the course encourages students to think critically, engage with real-world problems, and societal impacts to become responsible and informed technology users.

Standard Level		
Paper 1	Paper 2	Internal Assessment
Exam – 2hr 10min	Exam – 1hr 20min	Coursework project
Topic 1 to 4	Option Topic (Databases)	Programming
45%	25%	30%

Higher Level			
Paper 1	Paper 2	Paper 3	Internal Assessment
Exam – 2hr 10	Exam – 1hr 20min	Exam -1hr	Coursework project
Topic 1 to 7	Option Topic (Databases)	Case Study – based on a given scenario	Programming
40%	20%	20%	20%

Skill Development:

Problem-Solving: Emphasizes analytical and critical thinking to solve a variety of computational problems.

Programming Skills: Students learn to design, code, test, and document software solutions using multiple programming languages.
Python/Java/SQL

Algorithmic Thinking: is at the heart of the course. Developing the ability to break down complex problems into smaller, manageable components and design efficient solutions.

Paper 1 Topic areas

Topic 1.1 - Systems in Organisations

Topic 1.2 - System Design Basics

Topic 2 - Computer Organisation

Topic 3 – Networks

Topic 4 - Computational Thinking

Topic 5 - Abstract Data structures(*HL Only*)

Topic 6 - Resource Management(*HL Only*)

Topic 7 - Control Systems(*HL Only*)