

International Informatics Olympiad Syllabus
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**CLASS 11S
(COMPUTER SCIENCE C++)**

General OOPs Concepts; C++ Data Handling; Algorithms; Flow of Control; Console I/O Operations; Structured Data Type; Arrays; Functions; Standard Library and Header Files; Data Representation; Computer Organization
Please refer suggested readings for 11S :
Computer Science (C++) : Yashwant Kanetkar (Let us C++) -BPB;

**CLASS 11M
(MULTIMEDIA & WEB TECHNOLOGY)**

WEB Development using HTML/XML; Server & client scripts; Web Management; Creating Web Site; Image-Editing tools; Audio & video capture and editing using software tools; Multimedia authoring.
Please refer suggested readings for 11M :
Mastering Web Designing– Maccoy (BPB),
Multimedia on the PC – Sinclair (BPB),
CorelDraw – Training Guide – Lotia, M (BPB),
ASP, ADO and XML Complete – Sybex (BPB),
VBScript Interactive Course: Waite Group –Simon (BPB)

**CLASS 12S
(COMPUTER SCIENCE C++)**

Structures; Objects & Classes; Constructors and destructors; Function Overloading;
Inheritance: Extending Classes; Basics of Data Structure; File Organization; File Handling in C++; Database Concepts; Structure Query language; Local Area Network; Internet Related Terminology
Please Refer Readings for 12S : Computer Science (C++): Sumit Arora - Dhanpat Rai & Sons; Yashwant Kanetkar - BPB Publications;

**CLASS 12M
(MULTIMEDIA & WEB TECHNOLOGY)**

Database Terminology; Evolution of Networking: ARPANET, Internet, Interspace; Network devices; Multimedia Application; Web Development; ASP; Movie File Formats; Macromedia Flash
Please Refer Readings for 12M : Mastering HTML 4 Premium Edition – Ray (BPB), ASP, ADO and XML Complete – Sybex (BPB),
Multimedia Magic – Gokul, S (BPB), Learn Advanced HTML with DHTML – Ramalho (BPB), Effective Web Design – Navarro (BPB), Practical ASP – Bayross (BPB), Inside Flash 5 – Kea thing (BPB)

**CLASS 11J/12J
(INFORMATICS PRACTICES -JAVA)**

AS PRESCRIBED BY CBSE/ICSE SYLLABUS
Networking and Open Standards: Computer Networking, Open Source Concepts;
Programming Fundamentals: Access specifier for classes, Members and methods, Concept of package; Inheritance: Need and implementation, Method Overloading and Overriding, Abstract Class and Interfaces, use of interfaces; Commonly used libraries;
Relational Database Management System: SQL Queries; IT Applications : e- governance, e-Business and e-Learning
Please refer suggested reading for 11J/12J :
Introduction to Computer System:V. Rajaraman, Introduction to Programming: Herbert Schildt , Java : the complete reference; Relational Database Management System:Lerry Ulman, MYSQL Database; Computer Networking: William Stallings, Computer Networking
Open Standard and Multi-Lingual Computing:
www.w3c.org