IB JIO (Junior Intelligence Officer) Syllabus 2025

The IB JIO Syllabus 2025 includes topics from General Mental Ability and the Technical Section (Computer Science / Electronics / IT / Communication). Candidates must prepare both parts thoroughly for Tier I.

IB JIO Syllabus 2025 for General Mental Ability

The IB JIO Syllabus 2025 for General Mental Ability evaluates candidates' reasoning, problem-solving, and general awareness skills. It includes questions from history, polity, current affairs, reasoning, maths, and English.

Subject Area	Topics Covered
General Awareness	Indian History, Geography, Polity, Current Affairs (National & International), Important Days & Dates
Reasoning Ability	Coding-Decoding, Series, Puzzles, Logical & Analytical Reasoning
Quantitative Aptitude	Number System, Averages, Ratios, Percentages, Time & Work, Profit & Loss, Mixtures & Alligation
Data Analysis	Data Interpretation & Analysis
English Language	Vocabulary, Error Spotting, Cloze Test, Reading Comprehension

IB JIO Syllabus 2025 for Technical Section (Electronics & Telecommunication)

The IB JIO Syllabus 2025 for Technical Section (Electronics & Telecommunication) evaluates the candidate's core technical knowledge in electronics, communication systems, and related fundamentals. Questions are asked to test practical understanding and application in real-world scenarios.

Topic	Details
Electronic Components & Materials	Basics of semiconductors, resistors, capacitors, inductors, transformers, diodes, transistors
Electronic Devices and Circuits	Amplifiers, oscillators, rectifiers, biasing techniques, feedback, power supplies

Digital Electronics	Logic gates, Boolean algebra, flip-flops, counters, multiplexers, decoders, number systems
Linear Integrated Circuits	Operational amplifiers, filters, voltage regulators, timers (555), applications
Microprocessor and Microcontroller	Architecture, instruction sets, programming basics, interfacing
Communication Engineering	Analog & digital communication, modulation/demodulation, transmission lines, antennas
Data Communication and Networking	OSI model, TCP/IP, protocols, network devices, LAN/WAN concepts
Basic Electrical Engineering	AC/DC fundamentals, electrical machines, transformers, power systems basics
Signal Processing & Measurements	Sampling, quantization, Fourier transform, filters, instrumentation
Computer Programming Basics	C/C++ basics, data types, control structures, functions, arrays, memory concepts

IB JIO Syllabus 2025 for Technical Section (Computer Science / IT)

The IB JIO Syllabus 2025 for Technical Section (Computer Science/IT) includes topics from core computer fundamentals, programming, networking, databases, and system analysis.

Topics	Details Covered
Computer Fundamentals	Basics of computers, hardware, software, number systems
Operating Systems	Linux, Windows, process management, memory management, file systems
DBMS & SQL	Database concepts, normalization, ER models, SQL queries
Data Structures & Algorithms	Arrays, linked lists, stacks, queues, trees, graphs, searching & sorting algorithms
Programming Languages	C, C++, Java – basics, OOPs concepts, syntax,

	error handling
Web Technologies	HTML, CSS, JavaScript, basics of web programming
Computer Organization & Architecture	CPU, memory hierarchy, instruction sets, input/output organization
Networking & Data Communication	OSI & TCP/IP models, IP addressing, routing, switching, network protocols
Information Security & Cryptography	Encryption, decryption, firewalls, authentication techniques
Software Engineering & System Analysis	SDLC models, requirement analysis, design methodologies, testing