

CLASS:	XI	SUBJECT:	COMPUTER SCIENCE
BOOK:	ISC COMPUTER SCIENCE WITH JAVA CLASS XI – Sumita Arora, Dhanpat Rai & Sons		

FIRST TERM			
Month	T o p i c	Chapters	Periods
APRIL (15)	Data Representation	1	6(Th-3,Pr-3)
MAY (10)	Propositional Logic & Hardware	2	4(Th-2, Pr-2)
JUNE (10)	General OOPs Concepts	3	4(Th-2, Pr-2)
	Introduction of Java	4	
	Java Fundamentals	5	
JULY (24)	Flow of Control	6	10(Th-5, Pr-5)
	Classes in Java	7	
	Functions/ Methods & Constructors	8	
AUGUST (22)	Program Error types and Basic Exception Handling	9	10(Th-5, Pr-5)
	Simple Input/Output, Wrapper Classes and Packages	10	
	Arrays & Strings	11	
SEPTEMBER (21)	Revision of First Term Syllabus		
Project (June 2026)	A set of 15 programs to be coded in Java language based on Functions, Library classes, Looping, String Handling, Arrays strictly using the following rules: a) Proper comments using mnemonics b) Variable Definition Table c) Screenshots of the outputs of the programs		
Revision Days			8
No. of classes			51

UNIT TEST - 1st Term		
Month	T o p i c	Chapters
August 18.08.2026	Data Representation	1
	General OOPs Concepts	3
	Introduction of Java	4
	Java Fundamentals	5
	Flow of Control	6
	Classes in Java	7
	Functions/ Methods & Constructors	8

EXAMINATION - 1st Term		
Month	T o p i c	Chapters
Sept	As per the CISCSE Council ISC Examination Pattern, the question paper will be out of 70 marks, divided into 2 parts and 3 sections as follows:	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

Part I : Objective type questions of 20 marks Part II: Sec- A Subjective type questions of 20 marks Sec – B Programs coded in Java Language based on Strings, Number-based Programs, Loops and Conditional Statements of 20 marks Sec – C Programs coded in Java Language based on File Handling and Arrays(both one and twp dimensional)	
---	--

ACTIVITIES

	For Science Stream: Developing Java Applications based on Physics on topics like Magnetism, Sound, Energy, etc.) If time permits, GUI applications in Java will be taught. Using Ardiuno Microcontroller(ATMEGA 328) to develop simple automated devices including infrared, Bluetooth, ultrasonic sensors, etc. For Commerce Stream : Developing Java Applications based on Banking Systems.
--	--

SECOND TERM

Month	T o p i c	Chapters	Periods
OCTOBER (16)	Operation on Files	12	6(Th-3, Pr-3)
NOVEMBER (19)	Getting Started with Python Python Fundamentals	13 14	8(Th-4, Pr-4)
DECEMBER (15)	Flow of Control in Python	14	6(Th-3, Pr-3)
JANUARY (20)	Flow of Control in Python Trends in Computing and Ethical Issues	15 16	8(Th-4, Pr-4)
FEBRUARY (20)	Revision of ISC Class XI Syllabus		8(Th-4, Pr-4)
Project (Jan. 2027)	A set of 10 programs to be coded in Java & Python language based on Functions, Library classes, Looping, String Handling in Java and Flow of Control and Operators in Python strictly using the following rules: a) Proper comments using mnemonics b) Variable Definition Table c) Screenshots of the outputs of the programs		
Revision Days			12
No. of classes			82

UNIT TEST – 2nd Term		
Month	T o p i c	Chapters
(Jan) (25.11.2026)	Arrays File Handling in Java Getting Started with Python Python Fundamentals	11, 12, 13,14

EXAMINATION – 2nd Term		
Month	T o p i c	Chapters
March	As per the CICSE Council ISC Examination Pattern, the question paper will be out of 70 marks, divided into 2 parts and 3 sections as follows: Part I : Objective type questions of 20 marks Part II: Sec- A Subjective type questions of 20 marks Sec – B Programs coded in Java Language based on Strings, Number-based Programs, Loops and Conditional Statements of 20 marks Sec – C Programs coded in Java Language based on File Handling and Arrays(both one and twp dimensional)	1,2,3,4,5,6,7,8,9, 10, 11, 12, 13, 14, 15, 16

ACTIVITIES	
	For Science Stream: Developing Java Applications based on Physics on topics like Magnetism, Sound, Energy, etc.) If time permits, GUI applications in Java will be taught. Using Ardiuno Microcontroller(ATMEGA 328) to develop robotic cars controlled by infrared, Bluetooth, ultrasonic sensors, etc, controlling LED display boards, constructing drones. For Commerce Stream : Developing Java Applications based on Banking Systems