



ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA – 700019

Session Plan for the Academic Year 2026-27



Subject: Computer Science

Term: First

Name of the Subject Co-ordinator: Mr. SOUMAK CHATTERJEE

No. of Working Days: 61

No. of Periods Available: 39

Class: 11

Section: A, B

Text Book: Computer Science with Java XI (CSWJ11)

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
APRIL	13	Ch-1. Data Representation CSWJ11: (pg 1-61)	<ul style="list-style-type: none"> Introduction, Numeral Systems, Digital Number Systems, Number Conversions, Binary Representation of Numbers, Floating-Point Representation, Binary Arithmetic, Adding and Subtracting Octal Numbers and Hexadecimal Number Systems, Representing Characters in Memory, ASCII and Unicode [CSWJ11: ch 1 pg 1-10] 	<ul style="list-style-type: none"> Very short/short answer questions, long answer type questions, Solved problems [CSWJ11 : ch 10 pg 9-374 ch 11 pg 453-475] 	<ul style="list-style-type: none"> Chart activity : classification
MAY	6	Ch-2. Propositional Logic & Hardware (pg 63-96) Ch -3. General OOP concepts (pg 97-108) Ch- 4. Introducing Java (pg 109-122)	<ul style="list-style-type: none"> Introduction, Propositional Logic, basic Logic Gates, More About Logic Gates, Applications of Logic Gates [CSWJ11: ch 2 pg 1-10] Introduction, Evolution of Software, Basic concepts of OOP [CSWJ11: ch 3 pg 97-108] Introduction, About Java, Simple java programs, Creating and running a Java Program [CSWJ11: ch 4 pg 109-122] 	<ul style="list-style-type: none"> Notes on corresponding topics, Very short/short answer questions, long answer type questions, Solved problems [CSWJ11 : ch 10 pg 9-374 ch 11 pg 453-475] 	<ul style="list-style-type: none"> Demonstration of live cricket scenario to identify objects. Chart activity: Java compilation process.
JUNE	7	Ch – 5. Java Fundamentals (pg 123-184) Ch-6. Flow Control (pg 185 – 242)	<ul style="list-style-type: none"> Introduction, Java Character set, tokens, Concept of data types, Variables, Constants, Operators in Java, Expressions, Classes and Objects [CSWJ11: ch 5 pg 123-184] Introduction, Programming Constructs, Selection Statements, Iteration Statements, parts of a Loop, The For Loop, The While Loop The do- while loop, Nested loops, Comparison of loops, jump Statements [CSWJ11: ch 6 pg 185-242] 	<ul style="list-style-type: none"> Notes on corresponding topics, Very short/short answer questions, long answer type questions, Solved problems [CSWJ11 : ch 10 pg 9-374 ch 11 pg 453-475] 	<ul style="list-style-type: none"> Group activity to identify various tokens Demonstration of iteration through industrial automation examples.
JULY	13	Ch -7 Classes in Java (pg 243-264) Ch- 8 Functions (Methods) CSWJ11 : (pg 265-312)	<ul style="list-style-type: none"> Introduction, Class as a Composite Type, Creating and using Objects, Encapsulation, visibility Modifiers, scope and visibility rules [CSWJ11: ch 1 pg 1-10] Introduction, Why Functions?, Functions Definition, Assessing a function, pass by value, call by value, call by reference, returning from a function, pure and impure function, Function overloading, Constructor, recursion [CSWJ11: ch 8 pg 265-312] 	<ul style="list-style-type: none"> Notes on corresponding topics, Very short/short answer questions, long answer type questions, Solved problems [CSWJ11 : ch 10 pg 9-374 ch 11 pg 453-475] 	<ul style="list-style-type: none"> Demonstration of printer being used for multiple purpose to explain function overloading

UT 1 begins from 13.07.2026. [UT 1 Syllabus : Ch. 1 – Data Representation & Ch. 3 - General OOP concepts]

Signature of the Co-Teachers: 1. Soumak Chatterji -

Submitted on: 20.04.2026

Academic Co-ordinator: Soumak Chatterji -

Principal

Vice Principal



ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA - 700019

Session Plan for the Academic Year 2026-27



Subject: Computer Science

Term: First & Second

Name of the Subject Co-ordinator: Mr. SOUMAK CHATTERJEE

No. of Working Days: 61+36 (1st term) & 100 (2nd term)

No. of Periods Available: 13 (1st term) & 48 (2nd term)

Class: 11

Section: A, B

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
AUGUST	11	Ch 10. Using Library Classes and Packages CSWJ11 : (pg 339-374) Ch 11. Arrays CSWJ11 : (pg 375-416)	<ul style="list-style-type: none"> Simple I/O, Exception handling, Wrapper Classes, Working with Strings, Packages in Java [CSWJ11 : pg 339-369] Introduction, Need for Arrays, Types of Arrays, Searching in 1-D arrays, Sorting, Arrays vs Objects, Advantages and disadvantages, solution of simultaneous linear equations [CSWJ11 : pg 375-412] 	<ul style="list-style-type: none"> Notes on corresponding topics, Very short/short answer questions, long answer type questions, Solved problems [CSWJ11 : ch 10 pg 9-374 ch 11 pg 453-475] 	<ul style="list-style-type: none"> A model to explain both the sorting techniques
SEPTEMBER	2 (1 st term) 5 (2 nd term)	1 st term exam begins from 07.09.2026 2 nd begins from 21.09.2026	REVISION AND ONGOING EXAM	REVISION AND ONGOING EXAM	REVISION AND ONGOING EXAM
FIRST TERM EXAM SYLLABUS: CSWJ11 CHAPTERS: 1. Data Representation, 2. Propositional Logic & Hardware, 3. General OOP concepts, 4. Introducing Java, 5. Java Fundamentals, 6. Flow of Control, 7. Classes in Java, 8. Functions (Methods), 10. Using Library Classes and Packages, 11. Arrays					
OCTOBER	8	Ch 9. Program error types and basic exception handling CSWJ11 : (pg 313 – 338)	<ul style="list-style-type: none"> Type of program errors, exception handling, exception hierarchy, forcing an exception, benefits [CSWJ11 : ch -9 pg 313-333] 	<ul style="list-style-type: none"> Short and long answer type questions, Solved problems [CSWJ11 : ch 9 pg 313-338] 	<ul style="list-style-type: none"> LAB ACTIVITY
NOVEMBER	11	Ch 13. Trends in Computing and ethical issues CSWJ11 : (pg 453- 475)	<ul style="list-style-type: none"> Introduction, trends in computing, cyber security, major ethical issues, open source and its philosophy, netiquette, email etiquette. [CSWJ11 : ch 13 pg 453-473] 	<ul style="list-style-type: none"> Assignments, Solved problems [CSWJ11 : ch 13 pg 453 475] 	<ul style="list-style-type: none"> Group activity: Creating a list of netiquette
DECEMBER	9	Ch 12. Operations on Files CSWJ11 : (pg 417-451)	<ul style="list-style-type: none"> Introduction, Files, java streams, Operations on Files, String Tokenizer, Stream Tokenizer, Obtaining Input using Scanner Class, Printing java [CSWJ11 : ch 12 pg 417-450] 	<ul style="list-style-type: none"> Short and long answer type questions, Solved problems [CSWJ11 : ch 12 pg 417-451] 	<ul style="list-style-type: none"> Demonstration of various file operations
JANUARY	10	REVISION	LAST DATE OF PROJECT SUBMISSION : 04.01.2027	REVISION	REVISION
FEBRUARY	5	REVISION <u>Second Term Exam begins from 15.02.2027</u>	SECOND EXAM SYLLABUS : 1. Data Representation, 2. Propositional Logic & Hardware, 3. General OOP concepts, 4. Introducing Java, 5. Java Fundamentals, 6. Flow of Control, 7. Classes in Java, 8. Functions (Methods), 9. Program error types and basic exception handling, 10. Using Library Classes and Packages, 11. Arrays, 12. Operations on files, 13. Trends in Computing and Ethical Issues		

Signature of the Co-Teachers: 1. Soumak Chatterjee

Submitted on: 20.04.2026

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PRINCIPAL

VICE PRINCIPAL