



# ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA – 700019

Session Plan for the Academic Year 2026-2027



Subject: Computer Science

Term: First

Name of the Subject Co-ordinator: Mrs. Varisha Khanam

No. of Working Days: 61

No. of Periods Available: 64 Class: 12

Section: A, B

Text Book: Computer Science with Java XII (CSWJ12)

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
APRIL	17	Ch-1. Boolean Algebra	<ul style="list-style-type: none"> <li>Propositional logic, Development of Boolean Algebra, Binary valued quantities, Logical operations, Basic Logic gates, Basic Postulates of Boolean Algebra, Principle of Duality, Theorems of Boolean Algebra, Derivation and Minimization of Boolean Expression</li> </ul>	<ul style="list-style-type: none"> <li>Very short/short answer questions, long answer type questions, Solved problems</li> </ul>	<ul style="list-style-type: none"> <li>Demonstration of K Maps</li> <li>Chart activity: Boolean Algebra Laws</li> </ul>
MAY	12	Ch-2. Computer Hardware Ch -3. Objects and Classes	<ul style="list-style-type: none"> <li>Introduction, Elementary Logic gates, Application of Logic Gates</li> <li>Introduction, what is an Object &amp; Class? Creating a class in Java, Writing Simple Programs, Instantiating Objects, Some Real World Programming Examples</li> </ul>	<ul style="list-style-type: none"> <li>Notes on corresponding topics, Very short/short answer questions, long answer type questions, Solved problems</li> </ul>	<ul style="list-style-type: none"> <li>Logic Gates with Everyday Objects (Demonstration)</li> <li>"Grocery Store" Coding Simulation (Group Activity)</li> </ul>
<b>UT 1 begins from 13.07.2026. UT 1 Syllabus : Ch. 1 – Boolean Algebra</b>					
<b>Project Discussion by 11.05.2026</b>					
JUNE	14	Ch-4 Java Revision Tour Ch – 5. Primitive Values, Types Casting and Expressions Ch-6. Statements, Control Structures and Scope	<ul style="list-style-type: none"> <li>Introduction, Beginning with Java</li> <li>Introduction, Data Types, Providing Interactive Input to program, Wrapper Classes, Expressions and Type Conversion, Expressions, Assignment Operation in Java</li> <li>Introduction, Java Statements, Control structures, scope and visibility</li> </ul>	<ul style="list-style-type: none"> <li>Notes on corresponding topics, Very short/short answer questions, long answer type questions, Solved problems</li> </ul>	<ul style="list-style-type: none"> <li>Match real-world items to Java types</li> <li>Traffic Light Simulation</li> </ul>
JULY	24	Ch -7 Functions/Methods Ch- 8 Arrays and Strings	<ul style="list-style-type: none"> <li>Why Functions?, Function/Method Definition, Accessing/Calling a Function, Returning from a Function, Getters &amp; Setters methods in Class, Static members revisited, scope and visibility rules, the main() method, The this variable</li> <li>Introduction, Arrays, Types of Arrays, Working with Strings</li> </ul>	<ul style="list-style-type: none"> <li>Notes on corresponding topics, Very short/short answer questions, long answer type questions, Solved problems</li> </ul>	<ul style="list-style-type: none"> <li>String Mutation Timeline (Visual Aid) &amp; Real-World Array Mapping (Group Project)</li> </ul>

Teachers are requested to prepare a LESSON PLANS for each Topic month wise. Kindly mention the chapters included for Terminal Examinations

Signature of the Co-Teachers: *Varisha Khanam*  
VARISHA KHANAM

Submitted on: 20.04.2026

PRINCIPAL:

*[Signature]*

Academic Co-Ordinator:

*Soumak Chatterjee*

VICE PRINCIPAL

*[Signature]*



# ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA - 700019

Session Plan for the Academic Year 2026-2027



**Subject:** Computer Science

**Term:** First and Second

**Name of the Subject Co-Ordinator:** Mrs. Varisha Khanam

**No. of Working Days:** 61, 36+49(1<sup>st</sup> + 2<sup>nd</sup> term)

**No. of Periods Available:** 64, 27+42

**Class:** 12 Section: A, B **Text Book:** Computer Science with Java XII (CSWJ12)

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
AUGUST	24	Ch 13. Simple Data Structures	<ul style="list-style-type: none"> <li>Need for linked lists, singly linked lists, Stack, Queue</li> </ul>	<ul style="list-style-type: none"> <li>Assignments, Solved problems</li> </ul>	<ul style="list-style-type: none"> <li>Stack Plate Simulation &amp; Queue Ticket Counter</li> </ul>
<b>FIRST TERM EXAM SYLLABUS: CSWJ12 CHAPTERS: 1. Boolean Algebra, 2. Computer Hardware, 3. Objects and classes, 4. Java Revision Tour, 5. Primitive Values, Type Casting and Expressions, 6. Statements, Control Structures and scope, 7. Functions/ Methods, 8. Arrays and Strings, 13. Simple Data Structures</b>					
SEPTEMBER	3+7	<u>1<sup>st</sup> term exam begins from 07.09.2026</u> <u>1<sup>st</sup> term exam ends on 18.09.2026</u> <u>2<sup>nd</sup> term begins from 21.09.2026</u>	REVISION AND ONGOING EXAM	REVISION AND ONGOING EXAM	REVISION AND ONGOING EXAM
OCTOBER	15	Ch 12. Concept of Inheritance Ch 9. Compiling and Running Java Programs	<ul style="list-style-type: none"> <li>Need for Inheritance, Different forms of Inheritance, Derived/Sub and Base/Super Classes, Inheritance &amp; Constructors, Abstract Classes, Interfaces, Polymorphism</li> <li>Introduction, Byte Code, JVM, Characteristics of Java, Creating and running a Java Program</li> </ul>	<ul style="list-style-type: none"> <li>Short and long answer type questions, Solved problems</li> </ul>	<ul style="list-style-type: none"> <li>Lab Activity</li> </ul>
NOVEMBER	20	Ch 10. Java Classes: An OOP Perspective Ch 11. Recursion Ch 14: Recursive Data Structures Ch 15. Computational Complexity	<ul style="list-style-type: none"> <li>Introduction, The role of Objects &amp; Classes, The OOP Perspective, Keyword Interface vs Term Interface</li> <li>Introduction &amp; Recursive Function</li> <li>Recursive Lists, Introducing Trees &amp; Recursive Binary Trees</li> <li>What is computational complexity? Estimating Complexity of Algorithms, Best, Average and Worst Case Complexity, Reviewing Complexity &amp; Complexity Analysis of Some Familiar Algorithms</li> </ul>	<ul style="list-style-type: none"> <li>Notes on corresponding topics, Very short/short answer questions, long answer type questions, Solved problems</li> <li>Short and long answer type questions, Solved problems</li> </ul>	<ul style="list-style-type: none"> <li>Lab activity</li> <li>Big-O Charades (Kinaesthetic Game)</li> </ul>
DECEMBER	--	<u>Rehearsal exam starts from 1.12.2026</u> <u>Syllabus: Ch 1 to Ch 15</u>	ONGOING EXAM	ONGOING EXAM	ONGOING EXAM

Teachers are requested to prepare a LESSON PLANS for each Topic month wise. Kindly mention the chapters included for Terminal Examinations

Signature of the Co-Teachers: *Varisha Khanam*  
VARISHA KHANAM

Submitted on: 20.04.2026

*[Signature]*  
PRINCIPAL:

Academic Co-Ordinator: *Soumak Chatterjee*

VICE PRINCIPAL

*[Signature]*