



# ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA - 700019

Session Plan/ Syllabus Coverage for the Academic Year 2025-2026



**Subject:** Computer Applications **Term:** 1<sup>st</sup> **Name of the Subject Co-ordinator:** Mr. Phalguni Pramanik **Name of the Book:** ICSE Computer Applications X (ICA10)

**No. of Working Days:** 103 **No. of Periods Available:** 21 **Class:** 10 **Sections:** A, B, C

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
APRIL	9	CH-1. Revision Tour I ICA10: pg (1-30)  CH-2. Revision Tour II ICA10: pg (31-71)	<ul style="list-style-type: none"> <li>Introduction to OOPs, Elementary Concept of Objects and Classes, Values and Data Types, Operators in Java [ICA10: ch- 1 pg 1-22]</li> <li>Input in Java, Mathematical Library Methods, Conditional Constructs, Nested For Loops [ICA10: ch- 2 pg 31-57]</li> </ul>	<ul style="list-style-type: none"> <li>Short Answer Type Questions, Programs and output questions discussions, Lab activity [ICA10: ch- 1 pg 26-30, ch-2 pg 61-71]</li> </ul>	<ul style="list-style-type: none"> <li>Group activity to explain swapping</li> <li>Demonstration of electricity bill calculation</li> </ul>
MAY	6	CH-8. Arrays ICA10: pg (247-297)	<ul style="list-style-type: none"> <li>Definition, types, declaration, initialization and accepting of single and double dimensional arrays, accessing the elements of SDA, Sorting and searching techniques using SDA only. [ICA10: ch- 8 pg 247-287]</li> </ul>	<ul style="list-style-type: none"> <li>Short Answer Type Questions, Various programs discussion, Lab activity [ICA10: ch-8 pg 290-297]</li> <li>Project: 10 questions with solutions discussion</li> </ul>	<ul style="list-style-type: none"> <li>A model to explain both the sorting techniques</li> </ul>
JUNE (1 <sup>st</sup> Term Unit Test Begins From 23.06.25)	6	CH-3. Class as basis of all computation ICA10: pg (72-103)  CH-4. User-Defined Methods ICA10: pg (104-151)	<p><u>UT 1 Syllabus : Ch 1 – Revision Tour I</u></p> <ul style="list-style-type: none"> <li>Objects encapsulate state and behaviour – numerous examples; member variables; attributes or features. Variables define state; member methods; Operations/ methods/ messages/ methods define behaviour. [ICA10: ch-3 pg 72-90]</li> <li>Need of methods, syntax of methods, forms of methods, method definition, method calling, method overloading, declaration of methods [ICA10: ch-4 pg 104-139]</li> </ul>	<ul style="list-style-type: none"> <li>Short Answer Type Questions, Various programs discussion, Lab activity [ICA10: ch-3 pg 96-103, ch-4 pg 145-15]</li> </ul>	<ul style="list-style-type: none"> <li>Demonstration of printer being used for multiple purpose to explain function overloading</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: 1. *Phalguni Pramanik*

2. *Soumukh Chatterjee*

Submitted on: 21.04.2025

Academic Co-ordinator: *R. Banerjee*

*[Signature]*

PRINCIPAL

VICE PRINCIPAL

*[Signature]*





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Session Plan/ Syllabus Coverage for the Academic Year 2025-2026



**Subject:** Computer Applications

**Term:** 1<sup>st</sup>

**Name of the Subject Co-ordinator:** Phalguni Pramanik

**Name of the Book:** ICSE Computer Applications X (ICA10)

**No. of Working Days:** 103

**No. of Periods Available:** 30

**Class:** 10

**Sections:** A, B, C

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
JULY	13	CH-5. Constructors ICA10: pg (152-188)  CH-9. String Manipulation ICA10: pg (298-329)	<ul style="list-style-type: none"> <li>Definition of constructor, characteristics, types of constructors, use of constructors, constructor overloading, difference between constructor and method. [ICA10: ch-5 pg 152-176]</li> <li>String class, methods of String class, implementation of String, String array [ICA10: ch- 9 pg 298-308]</li> </ul>	<ul style="list-style-type: none"> <li>Few Pyqs programs discussions, Lab activity [ICA10: ch-5 pg 181-188, ch- 9 pg 323-329]</li> </ul>	<ul style="list-style-type: none"> <li>Chart Activity: List of String and Character Functions</li> </ul>
AUGUST	13	CH-9. String Manipulation ICA10: pg (298-329)	<ul style="list-style-type: none"> <li>Programs based on various String class methods, extracting and modifying characters of a string, alphabetical order of the string in an array, searching of string [ICA10: ch- 9 pg 309-318]</li> </ul>	<ul style="list-style-type: none"> <li>Few Pyqs programs discussions, Lab activity [ICA10: ch- 9 pg 323-329]</li> </ul>	<ul style="list-style-type: none"> <li>Illustration of finding initials/short forms for a group of words</li> </ul>
SEPTEMBER (1 <sup>st</sup> term exam begins from 15.09.2025)	4	1 <sup>st</sup> term exam ends on 26.09.2025	<ul style="list-style-type: none"> <li>Revision of Ch 8 : Arrays and Ch 4 :User Defined Functions</li> </ul> <p><b>FIRST TERM EXAM SYLLABUS: ICA10 CHAPTERS:</b> 1. Revision Tour I, 2. Revision Tour II, 3. Class as basis of all computation, 4. User-Defined Methods, 5. Constructors, 8. Arrays, 9. String Manipulation</p>	<ul style="list-style-type: none"> <li>Programs on Searching and sorting techniques &amp; implementation of functions.</li> </ul>	<ul style="list-style-type: none"> <li>Lab activity</li> </ul>

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Signature of the Co-Teachers: 1. *Phalguni Pramanik*

2. *Soumukh Chatterji*

Submitted on: 21.04.2025

Academic Co-ordinator: *R. Banerjee*

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27, BALLYGUNGE CIRCULAR ROAD, KOLKATA - 700019

Session Plan/ Syllabus Coverage for the Academic Year 2025-2026



**Subject:** Computer Applications

**Term:** 2<sup>nd</sup>

**Name of the Subject Co-ordinator:** Phalguni Pramanik

**Name of the Book:** ICSE Computer Applications X (ICA10)

**No. of Working Days:** 50

**No. of Periods Available:** 23

**Class:** 10

**Sections:** A, B, C

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
OCTOBER	8 (2 <sup>nd</sup> term begins from 07.10.2025)	CH-7. ENCAPSULATION ICA10: pg (215-246)	<ul style="list-style-type: none"> <li>Access specifiers and its scope and visibility. Scope of various variables. [ICA10: ch- 7 pg 215-239]</li> </ul> <p><b>LAST DATE OF PROJECT SUBMISSION:</b> <u>24.10.2025</u></p>	<ul style="list-style-type: none"> <li>Discussion of First Term Question Paper</li> <li>Short Answer Type Questions, Pyqs discussions [ICA10: ch- 7 pg 242-246]</li> </ul>	<ul style="list-style-type: none"> <li>An experiment using various types of covers on a book</li> </ul>
NOVEMBER	12	CH-6. Library Classes ICA10: pg (189-214)  Model Test Paper & Previous Years' Question Papers ICA10: (pg 330-352)	<p><u>UT 2 begins from 17.11.2025</u></p> <ul style="list-style-type: none"> <li>Introduction to wrapper classes, methods of wrapper class and their usage with respect to numeric and character data types. Autoboxing and unboxing in wrapper classes. [ICA10: ch- 6 pg 189-207]</li> <li>Method of solving board question papers [ICA10: pg 330-352]</li> </ul>	<p><u>UT 2 Syllabus : Ch 9 – String Manipulation</u></p> <ul style="list-style-type: none"> <li>Notes on corresponding topics [ICA10: ch- 6 pg 211-215]</li> <li>Solutions of Previous Years' Question Paper [ICA10: pg 330-352]</li> </ul>	<ul style="list-style-type: none"> <li>Chart based activity to list out various wrapper classes</li> </ul>
DECEMBER (Rehearsal test begins from 8th Dec 2025)	3 (Rehearsal test ends on 19th Dec 2025)	Revision of Ch- 9 String Manipulation & Ch -8 2D Arrays	<ul style="list-style-type: none"> <li><b>REHEARSAL TEST SYLLABUS:</b> ICA10 CHAPTERS: 1. Revision Tour I, 2. Revision Tour II, 3. Class as basis of all computation, 4. User-Defined Methods, 5. Constructors, 6. Library Classes, 7. Encapsulation, 8. Arrays, 9. String Manipulation</li> </ul>	<ul style="list-style-type: none"> <li>Programs on word extraction &amp; simple 2d matrix</li> </ul>	<ul style="list-style-type: none"> <li>Lab activity</li> </ul>

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2. *Soumak Chatterjee*

Submitted on: 21.04.2025

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