



# ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution  
27, BALLYGUNGE CIRCULAR ROAD, KOLKATA- 700019



TEST

TERM: FIRST TERM

TEACHER'S NAME: SOUMAK CHATTERJEE

Syllabus planning for the academic year 2021

Subject: COMPUTER APPLICATION

CLASS: XI

SECTION: B,C,D

No. of working days: 75

MONTH	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
JUNE	Data Representation	Number systems, Conversion, Arithmetic, Positional & Non positional number system.	Various binary coding schemes BCD Code, Gray Code, Excess-3-code, ASCII, EBCDIC, ISCII	Arithmetic Problems Page: 95 and 96 [Author: Rajiv Mathur] Binary, Octal, Hexadecimal Addition and Subtraction.
JULY	Data Representation Evolution of Computers Concept of Circuit Integration	Various binary coding schemes, Concept of fixed and floating point numbers Abacus, Napier's Bones, Pascalines, The Babbage Machine	Stored program concept, Von Neumann architecture, Computer Hardware Generations	SSI, MSI, LSI, VLSI, ULSI Page: 9, 12,13 Conversion between different types of number systems.
AUGUST	Classification of Computers Computers in Modern Society Concept of Multimedia Software and Languages	Analogue, Digital and Hybrid Computers, Mainframe and Super Computers, Mini, Micro and Laptop. High level, Low level and Assembly Language.	Block diagram of a Computer, Primary memory & Secondary memory, Applications of multimedia, Multimedia hardware.	GUI,CUI, Booting, Types of OS, MS DOS, Computer Memory, Impact of ICT-Knowledge based society.

Teachers are requested to prepare a LESSON PLAN for each Topic to be taught. The Lesson plans are to be submitted along with the monthly planner.

Submitted on: 15.03.2021

Signature of Teacher: *Soumak Chatterjee*

Academic Co-ordinator: *Jayashree Shetty 15/3/21*

PRINCIPAL

VICE PRINCIPAL

*[Signature]*  
15/3/2021



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SEPTEMBER First term Examination begins on 16/09/2021	Parts of a Computer System Bitmap Representation of Images Boolean Algebra	Control Unit, Bus system, ALU, Flash memory, Cache memory, De' Morgan's Theorem, Boolean Algebra Laws. Bitmap Storage.	Storage devices, Truth table verification, Different types of Gates, Input devices and Output devices.	SOP and POS expressions from truth tables, Simplification using Boolean algebra. Page: 152, 153, 154.
OCTOBER Second term begins on 1 <sup>st</sup> October	Software and Languages <b>Project to be submitted on 25/10/2021</b>	Utility Software, Application Software, Directory and File structure, Translators- Compilers, Interpreters, Assemblers, Linker, Loader	Functions of Operating system, Concept of fixed and floating point numbers, Negative number representation.	Operating systems, functions, types. Deriving truth tables from expressions and vice versa, Proof using identities and truth tables. Page: 198, 199.
NOVEMBER	Visual Basic Toolbox Programming Fundamental	Standard window controls, Textbox, Command Button, Frame, and Checkbox.	Programming Environment, Moving and Resizing tools, Data types in VB	Variables and Constants, Input and Output operations, Control Statements. Page: 206, 209, 210, 211.
DECEMBER	Word Processing Using Word	Creating documents, Editing documents, Formatting with line or paragraph spacing, Page setup, Inserting Auto shapes and pictures, Inserting tables.	Inserting equations, Macros, Inserting WordArt, Adding headers, footers and page numbers.	Mail Merge, Formatting text, Various operational tools, Adding page borders and shading. Page: 304 and 305.

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JANUARY	Presentation Using Power Point <i>Entire syllabus completed</i>	Features of PowerPoint, Formatting text, Watermark, Applying Animation, Slide Show, Editing a presentation.	Adding sound effects and video clips, Applying Slide transitions, Creating presentation.	Inserting a picture as watermark, Slide show, Changing background, Presentation. Page: 339 and 340.
FEBRUARY Second term exam begins on 17/02/2022	Revision	Revision	Revision	Revision

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PRINCIPAL

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VICE PRINCIPAL

*[Signature]*  
15/3/2021