



FOR GOD AND COUNTRY

ST. LAWRENCE HIGH SCHOOL

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



TERM: PRE TEST

TEACHER'S NAME: SOUMAK CHATTERJEE

Syllabus planning for the academic year 2018

Subject: COMPUTER SCIENCE

CLASS: XII

SECTION: A1 & A2

No. of working days:

No. of periods available:

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
JANUARY					
FEBRUARY					
MARCH					
APRIL					

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: 24.01.2018

Signature of Teacher: Soumak Chatterjee

PRINCIPAL

ACADEMIC CO-ORDINATOR
25/1/18
St. Lawrence High School

Signature of Vice-Principal
VICE PRINCIPAL



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TERM: PRE TEST

TEACHER'S NAME: SOUMAK CHATTERJEE

Subject: COMPUTER SCIENCE

CLASS: XII

SECTION: A1 & A2

Syllabus planning for the academic year 2018

No. of working days: 74

No. of periods available: 62

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
MAY	14	Introduction to Database HTML Concept of relationships Networking Introduction to Database	1:1, 1:N, N:M relationships, Functional dependency, IP Addressing, Database Constraints, Terms associated with Data Transmission. Components of a network, Network Topologies, LAN protocols, Switching techniques.	Metadata, Use of Modem, Set operations, Client Server Architecture, Parallel Transmission, Serial Transmission. TCP/IP model, IP addressing, Domain name system, Various data models, data dictionary, HTML	Synchronous and Asynchronous transmission modes, Guided media for network transmission, Coaxial Cable, Fibre Optic, Unguided media. Page: 102,103,104. Normalisation. Page: 143,144,145. Laboratory copy Topic Discussion
JUNE	18	Relational Algebra Structured Query Language	Union, Cartesian Product, Database Operations, Selection, Projection.	Natural Join and Outer Join Exercise: Page: 218..General Syntax..Question number B.5.	DML, DCL, DQL Commands, 1NF, 2NF, 3NF, BCNF, Use of CREATE, USE, ALTER, DROP, INSERT, SELECT, UPDATE, DELETE. Laboratory copy Topic Discussion
JULY	18	Sequential Logic Circuit Pre Test: 26.07.2018	Concept of Synchronous and Asynchronous circuits, Triggering, Flip Flops, Counters.	D, JK, Master Slave Flip Flops: Diagram with Truth tables. Ring counter and Johnson counter diagrams.	SR Flip flops, Decade Counter, Up/Down counter, Ripple counter, SISO, SIPO, PISO, PIPO. Exercise: Page: 25. Project Topic Discussion: 04/07/2018
AUGUST	12	Introduction to Object Oriented Programming	Implementation of OOPs using C++, Branching and looping in C++.	While loop, For loop, Do-while, Nested Loops, Break statement, Continue statement, Goto statement.	Object, Class, Abstraction, Encapsulation, Inheritance, Polymorphism, Standard Input/Output, Members of a Class, Constructor and Destructor. Exercise: Page: 249.

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ACADEMIC CO-ORDINATOR

[Handwritten Signature]
25/1/18

St. Lawrence High School

[Handwritten Signature]

VICE PRINCIPAL

PRINCIPAL



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TERM: SELECTION TEST

TEACHER'S NAME: SOUMAK CHATTERJEE

Syllabus planning for the academic year 2018

Subject: COMPUTER SCIENCE

CLASS: XII

SECTION: A1 & A2

No. of working days: 37

No. of periods available: 38

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
SEPTEMBER	16	Introduction to Object Oriented Programming Programming in C	Concept of Constructors and Destructors, Pointer variables, Command line arguments, I/O file handling in C.	Program to show how a pointer points to an array, Program to use a malloc() function for assigning memory to array, Program on array of pointers.	Private, Public and Protected Class, Object creation and Accessing members of a class, Array of pointers, Pointers and Functions, Pointers and Structures. Exercise:Page:89 [C.2, 10, 11] Laboratory copy Submission & Project Submission: 10/09/2018
OCTOBER	12	Programming in C & Data Structure Revision	Linked List, Stack using array, Application of Linked lists, Queue using arrays. Revision	Insert a node and delete a node from a linked list. Algorithms for realisation of stack using array.	Operations of Linked list, Stack and Queue. Applications of stack: Postfix notification, Prefix notification, Infix to Postfix Conversion. Revision.
NOVEMBER	10	Revision	Revision	Revision	Revision
DECEMBER					

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