ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Syllabus Planner for the year 2019

TERM: PRE-SELECTION

TEACHER`S NAME: Mr. Prithwish De

No. of working days: 02   No. of periods available: 02   Subject: COMPUTER SCIENCE   CLASS: 12   SECTION: A1,A2,D

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
JANUARY					
FEBRUARY					
MARCH					
APRIL	02	Revision of concepts from class 11	Revision of important topics of Class 11	Relevant Basic questions	Question Patterns would be discussed in class

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....28/1/19............

Signature of Teacher: ....Prithwish De...........................

Academic Co-ordinator : ......Susmita Banerjee............
29.1.19.

PRINCIPAL

VICE PRINCIPAL

ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution
27, BALLYGUNGE CIRCULAR ROAD, KOLKATA- 700019
Syllabus planning for the academic year 2019

TERM: PRE TEST

TEACHER`S NAME: PRITHWISH DE

Subject: COMPUTER SCIENCE

CLASS: XII

SECTION: A1 , A2 , D

No. of working days: 70

No. of periods available: 76

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
MAY	6	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. **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	26	Sequential Logic Circuit Pre Test: 29.07.2019	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.
AUGUST	26	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.

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Submission Date: 28/1/19

Signature of Teacher: Prithwish De

Academic Co-ordinator:

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Syllabus planning for the academic year 2019

FOR GOD AND COUNTRY

TERM: ~~PRE~~ TEST

TEACHER`S NAME: PRITHWISH DE

Subject: COMPUTER SCIENCE

CLASS: XII

SECTION: A1 & A2 , D

No. of working days: 34

No. of periods available: 36

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
SEPTEMBER	24	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: 16/10/2019**
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				**NOTE: SelectionTest – NOVEMBER 15th** (whole syllabus)	
DECEMBER					

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Submission Date: 28/1/19

Signature of Teacher: Prithwish De

Academic Co-ordinator: Susmita Banerji 29/1/19

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