ST. FRANCIS XAVIER SCHOOL
COMPUTER APPLICATIONS
CLASS X
SYLLABUS 2021-2022

UNIT I			HALF YEARLY		
LOGIX Computer Applications			**LOGIX Computer Applications**		
Ch No.	**Name of the Chapter**	**Topic**	**Ch No.**	**Name of the Chapter**	**Topic**
1	OOP concept	OOP	5	User Defined Methods	Function definition
2	Introduction to Java	What is object,Encapsulation,class			adavantages, invoking methods
3	Values and Data types	Abstraction,Object factory			Returning from a function
4	Operators in Java	Byte code,Operation & expression			pure & impure method
6	Input in java	Data types,Tokens,Variables			Function overloading
7	Mathematical library functions	Constants,byte code, compilation of java			Calling of overloaded functions
8	Conditional construct in java	Method main			call by value (programs), call by reference
9	Iterative constructs in Java	Java character set			(only definition with an example.)
		Decision making Statements			static and nonstatic methods
		Programming structure	11	Constructors	What is a constructor? Need of it.
	Revising basic java concepts	Selection statement (if and switch)			Types of constructor, this keyword
		Obtaining input using Scanner class			constructor overloading.
		Object,Class			Constructor vs Method
		Member variables	15	String Handling	Creating string
		Object implementation			Methods used in string- Defination with an example
		Instantiating an object, Access specifier			programs based on the above methods.searching
		Object as an instance of class			for string using linear search.

Syllabus for Half yearly including Project Work (20 programs from class object concept,

14	Arrays	Need of arrays, Creating an array
		Types- Single dimentiomal array
		storing value in 1D array,Accessing the elements
		Searching:Liner & Binary Search

If else & switch, loop, Constructor,Method overloading, String functions)
Ch- 1,2,3,4,5,6,7,8,9,11,14,15 &   project submission   (1st part)

&   project submission on or before   02/08/2020 (1st part)

Syllabus for UNIT I : Ch 1,2,3,4,6,7,8,9,14 and Practical programs to be practiced.

| | | UNIT II | | | REHEARSAL |

LOGIX Computer Applications			LOGIX Computer Applications		
Ch No.	Name of the Chapter	Topic	Ch No.	Name of the Chapter	Topic
13	Encapsulation & Inheritance	Encapsulation,Access specifier	12	Library classes	Primitive,Composite datatypes
		Scope and visibility rules			User defined data types
		Implementing encapsulation			Wrapper class
9	Iterative Constructs in Java	For loop			Methods in wrapper class
		While loop			Numeric wrapper class methods
		Do while loop			Utility of wrapper class methods
					Auto Boxing and Un Boxing in Wrapper Classes
		Comparison of loops & jump statement			

Syllabus for Annual
Ch 1,2,3,4,5,6,7,8,9,11,12,13,14,15 & practical programs .

Syllabus for UNIT 2 including project work
(20 programs from the assignment sheet)
Ch- 1,2,3,4,5,6,7,8,9,13 &   Project Submission   (2nd part) &   project submission on or before   06/12/2021 (2nd part)