

KENDRIYA VIDYALAYA SANGATHAN, VARANASI REGION
SPLIT UP SYLLABUS FOR CLASS XI AND XII COMPUTER SCIENCE SUBJECT
ACADEMIC SESSION : 2020-21
CLASS : XI COMPUTER SCIENCE

MONTH	Syllabus to be covered in the examination
AUG'20	Unit I: Computer Systems and Organisation Basic computer organisation, Types of software, Memory Units, Boolean logic, Number System, Encoding Schemes, Concept of Compiler and Interpreter, Operating System (OS) Unit II: Computational Thinking and Programming - 1 Introduction to Problem solving:
SEPT'20	Familiarization with the basics of Python programming, simple data-types, Features of Python, Python Character Set, Token & Identifiers, Keywords, Literals, Delimiters, Operators, Comments, Introduce the notion of a variable and methods to manipulate it , Knowledge of data types and operators, Operators & types, Execution of a program, errors- syntax error, run-time error and logical error, Conditional statements, Notion of iterative computation and control flow, using flowcharts
OCT'20	Strings, Lists, Tuples
NOV'20	Dictionary, Introduction to Python modules
DEC'20	Unit III: Society, Law and Ethics Cyber safety, Appropriate usage of social networks, safely accessing web sites, Safely communicating data
JAN'21	Intellectual property rights, plagiarism, digital rights management, and licensing , open source, open data, privacy. Privacy laws, fraud; cyber-crime- phishing, illegal downloads, child pornography, scams; cyber forensics, IT Act, 2000, Technology and society
FEB'21	Revision Work and Practical Exam
MAR'21	Annual Exam

CLASS : XII COMPUTER SCIENCE

APR'20	Unit I: Computational Thinking and Programming - 2 Revision of the basics of Python covered in Class XI
JUNE-JULY'20	Functions, Using Python Libraries, File Handling, Text Files, Binary Files
AUG'20	CSV Files Data-structures: Lists as covered in Class XI, Stacks – Push, Pop using a list. Unit III: Database Management Database Concepts, Relational data model
SEPT'20	Structured Query Language: General Concepts Data Types, SQL commands covered in class XI, SQL functions, Joins
OCT'20	Interface of Python with an SQL database Unit II: Computer Networks : Evolution of Networking, Data Communication terminologies, Transmission media, Network devices
NOV'20	Network Topologies and types, Network Protocol, Mobile Telecommunication Technologies, Mobile processors, Electronic mail protocols, Network Security Concepts, Introduction To Web services
DEC'20 & JAN'21	Pre Board Examinations
FEB'21	Revision & AISSCE Practical Examination