



GOLDEN GATE GLOBAL SCHOOL

CLASS –XII Science HALF YEARLY SYLLABUS

Session :- 2026-27

SUBJECT	THEORY	PRACTICAL / VIVA	
COMPUTER SCIENCE (Th -70, Pr -30)	UNIT-I PROGRAMMING AND COMPUTATIONAL THINKING Chapter-1 Revision Tour I Chapter-2 Revision Tour II Chapter-3 Working with Functions Chapter-4 Using Python Libraries Chapter-5 File Handling Chapter-6 Exception Handling Chapter-7 Data Structure	CBSE Practical List: ● Read a text file line by line and display each word separated by a #. ● Read a text file and display the number of vowels/consonants/uppercase/lowercase characters in the file. ● Remove all the lines that contain the character 'a' in a file and write it to another file. ● Create a binary file with name and roll number. Search for a given roll number and display the name, if not found display appropriate message. ● Create a binary file with roll number, name and marks. Input a roll number and update the marks. ● Write a random number generator that generates random numbers between 1 and 6 (simulates a dice). ● Write a Python program to implement a stack using list. ● Create a CSV file by entering user-id and password, read and search the password for given user id. Database Management ● Create a student table and insert data. Implement the following SQL commands on the student table: ○ ALTER table to add new attributes / modify data type / drop attribute ○ UPDATE table to modify data ○ ORDER By to display data in ascending / descending order ○ DELETE to remove tuple(s)	
	UNIT-II COMPUTER NETWORKS Chapter-8 Computer Networks I Chapter-9 Computer Networks II		
PHYSICAL EDUCATION (Th -70, Pr -30)	Unit-1 Management of sporting events Unit-3 Yoga as Preventive Measure for Lifestyle Disease Unit-6 Test and Measurement in Sports Unit-9 Psychology and sports	Physical Fitness Test: SAI Khelo India Test Partial Curl UP Push - Ups Modified Push Ups (Girls) Shuttle Run 600 mtrs , 50 mtrs	
		Yoga (Asanas) 10 sitting asana 10 standing asana 10 lying asana No relaxing asana Viva as per the half yearly syllabus	

PAINTING (Th -30, Pr -70)	Chapter 1 The Manuscript Painting tradition Chapter 2 The Rajasthani School of Painting Chapter 3 The Mughal School of Miniature Painting. Chapter 4 The Deccani Schools of Painting Chapter 5 The Pahari schools of Painting Chapter 6 The Bangal School & Cultural Nationalism	Composition, Still life Color medium- Water color
PHYSICS	Chapter 1 Electric charge and field Chapter 2 Electrostatic potential and capacitance Chapter 3 Current Electricity Chapter 4 Moving charge and magnetism Chapter 5 Magnetism and matter Chapter 6 EMI Chapter 7 Alternating Current Chapter 8 EMW	<u>LIST OF EXPERIMENTS:</u> 1.To determine resistivity of two / three wires by plotting a graph for potential difference versus current. 2. To find resistance of a given wire / standard resistor using Metrebridge. 3. To verify the laws of combination (series) of resistances using a Metrebridge. OR To verify the laws of combination (parallel) of resistances using a Metrebridge. 4. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. NOTE: Students are required to bring Theory Notebook, Practical File and Stationery
CHEMISTRY	Chapter 1 Solution Chapter 2 Electrochemistry upto Nernst equation Chapter 3 Chemical Kinetics Chapter 6 Haloalkanes and haloarenes Chapter 7 Alcohol phenol and ether Chapter 8 Aldehyde, Ketone and carboxylic acid	<u>LIST OF EXPERIMENTS:</u> 1. To identify the functional group in the salt. 2. Determination the concentration of KMnO_4 by titrating it against a standard solution of oxalic acid & ferrous ammonium sulphate.
BIOLOGY	Chapter 1- Sexual Reproduction in flowering Plants Chapter 2- Human Reproduction Chapter 3- Reproductive Health Chapter 4- Principles of Inheritance and Variation Chapter 6 : Evolution Chapter 7 : Human Health and Disease Chapter 8 : Microbes in Human Welfare	<u>LIST OF EXPERIMENTS:</u> 1. Prepare a temporary mount to observe pollen germination. 2. To observe the TS of mammalian blastula through permanent slides. 3. To identify the stages of gamete development, i.e., T.S. of testes and ovary through permanent slides (from grasshopper). 4. Pollen germination on stigma through a permanent slide 5. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc. NOTE: Students are required to bring Theory Notebook, Practical File, Lab Coat and Stationery.

MATHEMATICS	Chapter-1 Relations and Functions Chapter-2 Inverse Trigonometric Functions Chapter-3 Matrices Chapter-4 Determinants Chapter-5 Continuity and Differentiability Chapter-6 Applications of Derivatives Chapter-7-Integrations				
ENGLISH	Flamingo	Vistas	Poem	Grammar	ASL
	1. The Last Lesson 2. The Lost Spring, 3. Deep Water , 4. The Rattrap 5. Indigo	1. The Third Level, 2. The Tiger King, 3. Journey to the End of the Earth	1. My Mother at Sixty-Six, 2. Keeping Quiet, 3. A Thing of Beauty,	Reading Comprehension Writing – Notice, Invitation and Replies, Letter to the Editor, Job Application, Article Writing	
HOME SCIENCE (Th -70, Pr -30)	Chapter 1- Work, livelihood and career Chapter 2- Clinical Nutrition and Dietetics Chapter 3- Public Nutrition and health Chapter 5- Food Processing and Technology Chapter 6- Food Quality and Food Safety Chapter 7- Early Childhood Care and Education Chapter 9- Management of Support Services, Institutions and Programmes for Children, Youth and Elderly Chapter 10- Design for Fabric and Apparel				1. Prepare a snack/meal for an elderly 2. Make a pamphlet on consumer education (Can choose any of the Topics: consumer rights, consumer protection act, consumer problems

EDUCATION THAT ELEVATES