



GOLDEN GATE GLOBAL SCHOOL

CLASS –XII Science HALF YEARLY SYLLABUS

Session - 2025-26

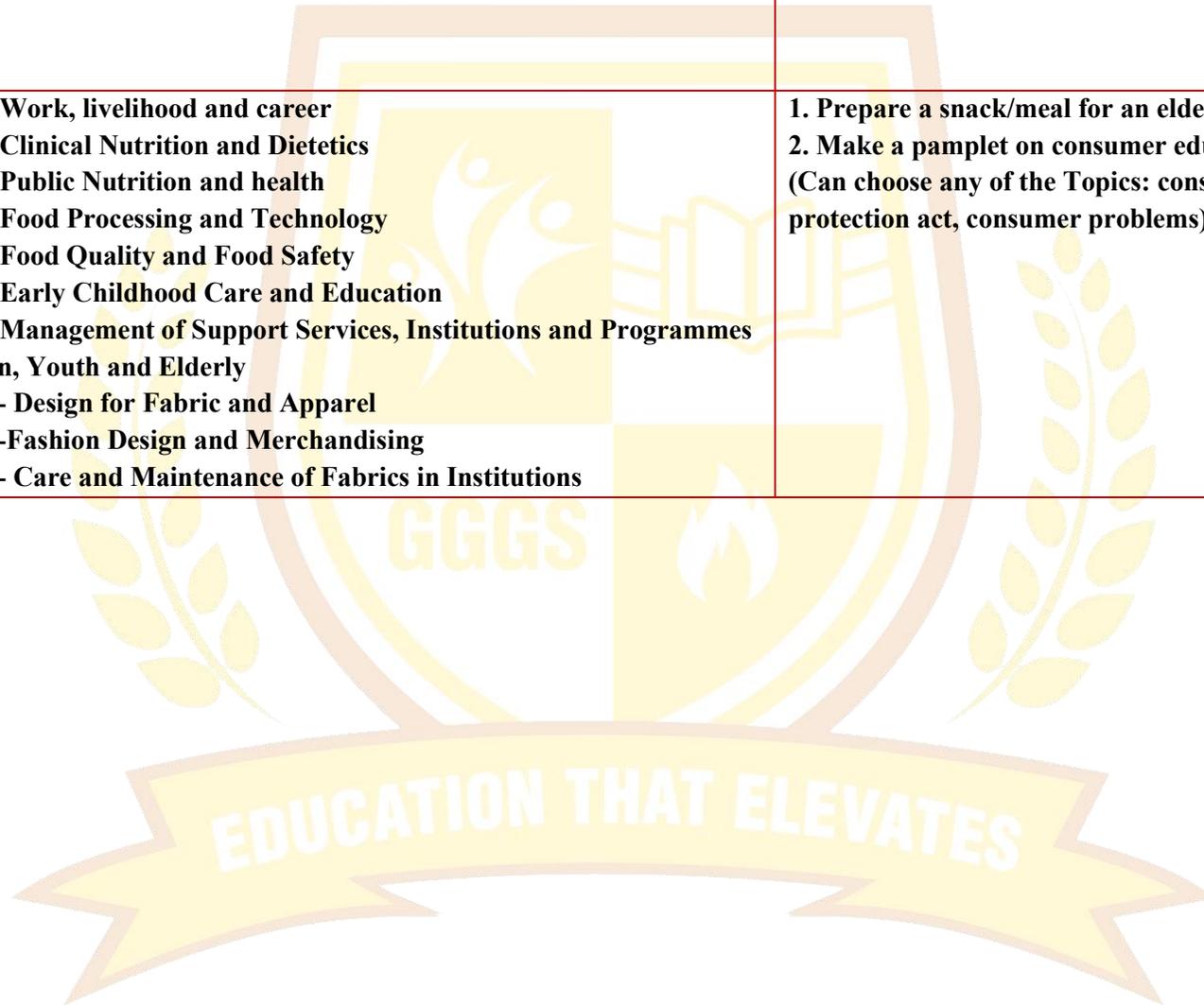
Duration – 3Hrs

Subject	Syllabus	Practical / Viva
English	<p>Flamingo – L1 The Last Lesson L2 – The Lost Spring, L3-Deep Water , L4 –The Rattrap, L5- Indigo P1 – My Mother at Sixty Six, P2-Keeping Quiet, P3-A Thing of Beauty, Vistas – L1 The Third Level, L2- The Tiger King, L3-Journey to the End of the Earth, L4-The Enemy Reading Comprehension Writing – Notice, Invitation and Replies, Letter to the Editor, Job Application, Article Writing</p>	-
Physics	<p>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</p>	<p>LIST OF EXPERIMENTS:</p> <ol style="list-style-type: none">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. <p>OR</p> <p>To verify the laws of combination (parallel) of resistances using a Metrebridge.</p> <ol style="list-style-type: none">4. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. <p>NOTE: Students are required to bring Theory Notebook, Practical File and Stationery.</p>

<p>Chemistry</p>	<p>Ch:06 Haloalkanes and haloarenes Ch:07 Alcohol phenol and ether Ch 08: aldehyde, Ketone and carboxylic acid Ch :09 Amines Ch:10 Biomolecules</p>	<p><u>LIST OF EXPERIMENTS:</u></p> <ol style="list-style-type: none"> 1. Determination of concentration / Molarity of KMnO_4 solution by titrating it against a standard solution of Oxalic acid. 2. Determination of concentration/ Molarity of KMnO_4 solution by titrating it against a standard solution of ferrous ammonium sulphate. 3. To identify the functional group in the given organic salt. 4. To find the acidic and basic character in the given salt. <p>NOTE: Students are required to bring Theory Notebook, Practical File Lab coat and Stationery.</p>
<p>Mathematics</p>	<p>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-12 Linear Programming Chapter-13 Probability</p>	
<p>Biology</p>	<p>Unit -1 Reproduction Unit-2 Genetics and Evolution Unit-3 Biology in Human Welfare</p>	<p><u>LIST OF EXPERIMENTS:</u></p> <ol style="list-style-type: none"> 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 <p>NOTE: Students are required to bring Theory Notebook, Practical File and Stationery.</p>

<p>Physical Education</p>	<p>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 Unit-10 Training in Sports</p>	<p>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</p>
<p>Computer Science</p>	<p>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 Unit-II COMPUTER NETWORKS Chapter-8 Computer Networks I Chapter-9 Computer Networks II</p>	<p>CBSE Practical List:</p> <ul style="list-style-type: none"> ● 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. <p>Database Management</p> <ul style="list-style-type: none"> ● Create a student table and insert data. Implement the following SQL commands on the student table: <ul style="list-style-type: none"> ○ ALTER table to add new attributes / modify data type / drop attribute ○ UPDATE table to modify data

		<ul style="list-style-type: none"> ○ ORDER By to display data in ascending / descending order ○ DELETE to remove tuple(s) ○ GROUP BY and find the min, max, sum, count and average
Home Science	<p>Chapter 1- Work, livelihood and career</p> <p>Chapter 2- Clinical Nutrition and Dietetics</p> <p>Chapter 3- Public Nutrition and health</p> <p>Chapter 5- Food Processing and Technology</p> <p>Chapter 6- Food Quality and Food Safety</p> <p>Chapter 7- Early Childhood Care and Education</p> <p>Chapter 9- Management of Support Services, Institutions and Programmes for Children, Youth and Elderly</p> <p>Chapter 10- Design for Fabric and Apparel</p> <p>Chapter 11-Fashion Design and Merchandising</p> <p>Chapter 13- Care and Maintenance of Fabrics in Institutions</p>	<p>1. Prepare a snack/meal for an elderly</p> <p>2. Make a pamphlet on consumer education</p> <p>(Can choose any of the Topics: consumer rights, consumer protection act, consumer problems)</p>



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