



**TAGORE INTERNATIONAL SCHOOL**  
**VASANT VIHAR, NEW DELHI**  
**SYLLABUS (2023-24)**  
**CLASS XII C & D**

MONTH	ENGLISH	MATHEMATICS	PHYSICS	CHEMISTRY	BIOLOGY	COMPUTER SCIENCE	ECONOMICS	PSYCHOLOGY
APR	<b>Prose-</b> <b>The Last Lesson</b> <b>Poem-Mother at Sixty- Six</b> Writing Skill-Notice Unseen Comprehension Passage Prose -Lost Spring -The Third Level - The Journey to the end of the Earth Poem Keeping Quiet Writing Skill-Article	Continuity and Differentiability  Application of derivatives	<b>Electrostatic Potential and Capacitance.</b>  <b>Current and Electricity</b>  <b>Practical :</b> To determine resistivity of two / three wires by plotting a graph for potential difference versus current. ( Health and Wellness) <b>Activity :Create a digital poster on electrical safety at home explaining the effects of electrical shock.</b>	Solutions  Haloalkanes and Haloarenes  Alcohols, Phenols and Ethers  <b>Practical :</b> Chromatography  To determine $R_f$ value of dyes  Activity: model showing osmosis process: Potato Osmosis Experiment	Reproduction -  Sexual Reproduction in Flowering Plants  Human Reproduction  Reproductive Health <b>Transdisciplinary learning-Discussion</b> Reproductive rights under article 21, of the Indian constitution and its relation with the reproductive health of our society.	<b>Exception Handling (4 periods)</b>  <b>File handling: Text Files-(5 periods)</b> open and close a file, read, write, and append to a file, standard input, output, and error streams, relative and absolute paths.  <b>Basic operations on a binary file:</b> • Open (filename – absolute or relative path, mode) / Close a	India on the eve of Independence  Indian economy-1950-1990  Money and Banking	Meeting Life Challenges  Variations in psychological attributes

					Genetics and Evolution -  Principles of Inheritance and Variation	binary file, Pickle Module – methods load and dump; ● Read, ● Write / Create, ● Search, ● Append and ● Update operations in a binary file		
<b>MAY</b>	Prose-Poets and Pancakes  -Deep Water  -Tiger King  Poem-- A Thing of Beauty  Writing Skill- Letter to the Editor	Application of derivatives (contd.)  Integrals	<b>Moving Charges and Magnetism</b>  Magnetic Force Lorentz Force Magnetic force on a current carrying conductor Motion in a magnetic field Cyclotron Galvanometer Conversion of galvanometer into ammeter and voltmeter.  <b>Practical</b> To determine	Alcohols, Phenols and Ethers (to be continued)  Biomolecules Activity:  Study of Antiseptic properties of phenol in dilute solution  Practical: Functional group analysis	Inheritance and Variation (to be continued)  Molecular basis of Inheritance  <b>Real life connect-</b> Tribal health challenges and proneness to genetic disorders due to inbreeding.	<b>Revision Tour</b> Syntaxes-loops , if...else  Lists, Tuples, Dictionaries, Strings-functions and applications  <b>Python- Mysql connectivity</b>  <b>Interface of Python with an SQL database</b> -Connecting SQL with Python -Creating database	Government Budget  New economic Policy  National Income Accounting	<b>Practical:</b> Raven's Standard Progressive Matrices (RSPM)  Self and Personality

			<p>resistance of a galvanometer by half-deflection method and to find its figure of merit.</p> <p>Cartoon Strip: Dialogue between Tesla and Edison(war of currents)</p>			<p>connectivity Applications</p> <ul style="list-style-type: none"> <li>- Performing Insert, Update, Delete queries</li> <li>- Display data by using fetchone(), fetchall(), rowcount</li> </ul> <p><b>Project Work: Synopsis</b></p>		
<b>JUL</b>	<p>Prose- Rattrap</p> <ul style="list-style-type: none"> <li>-The Enemy</li> <li>-The Interview</li> </ul> <p>Poem- A Roadside Stand</p> <p>Writing Skill</p> <ul style="list-style-type: none"> <li>-Report</li> </ul>	<p>Integrals (Contd.)</p> <p>Application of Integrals</p> <p>Differential Equations</p>	<p><b>Electromagnetic Induction</b></p> <p>Faraday's laws Lenz's law Self Induction Mutual Induction</p> <p><b>Practical :</b> To find the frequency of AC mains with a sonometer.</p> <p><b>Alternating current</b> Ac and Dc current Average and rms values of current and voltage</p>	<p>Electrochemistry</p> <p>Chemical Kinetics</p> <p>Aldehydes, Ketones and Carboxylic Acids</p> <p>Activity: Study of Acid in stomach,</p> <p>Reactions during digestion</p> <p>Practical: Food analysis Chemical Kinetics</p>	<p>Molecular basis of Inheritance (to be continued)</p> <p><b>Practical -</b> Isolation of DNA from suitable plant material</p> <p>Evolution</p> <p>Biology in Human Welfare -</p> <p>Human Health and Disease</p>	<p><b>Revision tour :</b></p> <p><b>Functions:</b> scope, parameter passing, mutable/immutable properties of data objects, pass arrays to functions, return values, functions using libraries: mathematical, and string functions.</p> <p><b>Project Work</b></p>	Theory of Income and Employment	<p>Psychological Disorders</p> <p><b>Practical:</b> Sinha's Comprehensive Anxiety Test (SCAT)</p> <p>Adjustment Inventory for School Students (AISS)</p>

			Power Power factor Impedance triangle Quality factor Phasor Diagrams Transformers					
<b>AUG</b>	Prose-Indigo - The Interview - Going Places Poem-Aunt Jennifer's Tigers Writing Skill-Invitation & Replies	Differential Equations (contd.) Linear Programming Probability	<b>E.M WAVES</b> Displacement current Electromagnetic waves Electromagnetic Spectrum <b>RAY OPTICS</b> Reflection Refraction Dispersion Optical Instruments <b>WAVE OPTICS</b> Huygens Principle Coherent and incoherent sources Diffraction <b>Practical :</b>	Aldehydes, Ketones and Carboxylic Acids (to be continued) Amines Activity: Poster on relative reactivity of aldehydes and ketones Practical: Volumetric analysis	Human Health and Disease (to be continued) Microbes in Human Welfare <b>Activity -</b> Use of <i>Bacillus</i> <i>thuringiensis</i> as a mosquito larvicide. Biotechnology - Biotechnology - Principles and Processes	<b>CSV File            Handling            (5 days)</b> <b>Introduction</b> : Format, application, different ways of creating csv files, converting text to csv, xlsx to csv (3 days) <b>Manipulations            on csv files (8            days)</b> reader(), writer(), writerows() Insert, Delete, Search, Modify, Display <b>Data structure</b> :	Employment Rural Development Human Capital Formation	Therapeutic Approaches <b>Practical:</b> Self-Concept Questionnaire(S CQ)

			To find the focal length of a convex lens by plotting graphs between u and v			stacks/Queues (8 days)		
<b>SEP</b>	Advertisements  <b>Term I Exam</b>  Revision	Probability (contd.)  <b>Term I Exam</b>  Revision	<b>Term I Exam</b>  Revision  <b>Dual nature of matter and radiation</b> Photoelectric effect Dual nature De Broglie relation	d -and f -Block Elements  <b>Term I Exam</b>  Revision	Biotechnology and its application  <b>Activity -</b> Virtual construction of a plasmid map using snapgene software.  <b>Term I Exam</b>  Revision	<b>Term I Exam</b>  Revision	Environment  <b>Term I Exam</b>  Revision	Attitude and Social Cognition  Revision for term - 1 examination
<b>OCT</b>	Prose- On the Face of it  - Memories of Childhood  Writing Skill-Job Application  Revision	Vectors  Three-dimensional Geometry  Inverse Trigonometric Functions  Relations and Functions	<b>Practical :</b> To find the focal length of a convex mirror, using a convex lens. <b>Atomic nucleus</b> Atomic Spectra Nuclear Energy  <b>SEMICONDUCT</b>	d -and f -Block Elements (to be continued) Coordination Compounds Activity: Colour wheel showing change in colour with ligand concentration	Ecology -  Organisms and populations  Ecosystem  Biodiversity and Conservation	<b>Unit II: Computer Networks</b>  ● Evolution of Networking:  ● Data Communication terminologies:	Foreign Exchange and Balance of Payments  India and its neighbours	Social Influence and Group Processes  Practical: Sodhi's Attitude Scale (SAS)



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