



**TAGORE INTERNATIONAL SCHOOL**  
**VASANT VIHAR, NEW DELHI**  
**SYLLABUS (2026-27)**  
**CLASS XII C & D**

MONTH	ENGLISH	MATHEMATICS	PHYSICS	CHEMISTRY	BIOLOGY	COMPUTER SCIENCE	ECONOMICS	PSYCHOLOGY
<b>MAR</b>	Prose- My Mother at sixty six ( Poem) Reading comprehension QP's/MS ( previous years) Writing Skill-Notice Prose-The Last Lesson, Unseen Comprehension Passage Prose-Lost Spring -The Third Level - Writing Skill-Article	<ul style="list-style-type: none"> <li>● Matrices</li> <li>● Determinants</li> <li>● Inverse trigonometric functions</li> </ul>	<b>Electrostatic Potential and Capacitance</b> Electric potential, equipotential surfaces, electrical potential energy, capacitors and capacitance, energy stored in a capacitor.  Activity: Powering the LED with Capacitors showing the mechanism of charging and	<b>Solutions</b> Henry's law Raoult's law Ideal and non ideal solutions Colligative properties <b>Haloalkanes and haloarenes</b> Classification and methods of preparation <b>Chemical properties of haloarenes</b>	* Human Reproduction * Sexual Reproduction in Flowering Plants <b>Practicals:</b> <ul style="list-style-type: none"> <li>● Observation of pollen tube growth (temporary mount or prepared slide study)</li> <li>● Identification of stages of gamete development, i.e., T.S. of testis and T.S.</li> </ul>	<b>MySQL</b> Data types and constraints, DDL, DML, retrieving data, data updation and deletion, Functions in SQL , Operations on Relations, Using two relations in a query, Joins, Group by	<b>Indian Economic Development</b> Chapter 1 Indian Economy on the Eve of Independence Chapter 2 Indian Economy: 1950-1990 Chapter 3 Economic Reforms Since 1991 <b>Macro Economics</b> Money and Banking	Topics:  Variations in Psychological Attributes  Practical - Introduction to Psychological Testing  Self and Personality - Type and Trait Approach  Activity: Case Study Analysis – Identify

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	Activity- Art Integration - Language collage -My Mother Tongue My pride		discharging.		of ovary through permanent slides. <ul style="list-style-type: none"> <li>T.S. of blastula through permanent slides (Mammalian).</li> </ul>			approach used  Values:  Self-awareness, Respect for individuality, Responsibility, Emotional Regulation
<b>APR</b>	Prose: Journey to the End of the Earth Poem -Keeping Quiet Writing Skill-Report Activity- Role Play/Mask Making Deep Water -Tiger King Writing Skill: Letter to the Editor	<ul style="list-style-type: none"> <li>Continuity and Differentiability</li> <li>Application of derivatives</li> </ul>	<b>Current and Electricity</b> Drift velocity, mobility; Ohm's law, electrical energy and power, resistivity and conductivity, temperature dependence of resistance, Internal resistance, cells in series and parallel, Kirchhoff's rules, Wheatstone	<b>Alcohol, Phenol, Ethers</b> Preparation physical properties chemical properties <b>Biomolecules</b> <b>Carbohydrates, Structure of glucose</b> Protein Denaturation of protein <b>Activity:</b> create a presentation on the development of structure of glucose	* Principles of Inheritance and Variation <b>Practicals</b> <ul style="list-style-type: none"> <li>Study of Mendelian inheritance using seeds of different colour/sizes of any plant.</li> <li>Study of prepared pedigree charts of any one of the genetic traits</li> </ul>	Exception Handling  Random Library  Text File Handling  Binary File Handling- Introduction	<b>Indian Economic Development</b> Chapter 4 Human capital Formation <b>Macro Economics</b> Government Budget and the Economy	Topics:  Self and Personality - Psychodynamic, Humanistic, Behavioural and Cultural Approach  Practical - RSPM  Meeting Life Challenges - Nature, Types and sources of Stress  Activity:

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			bridge. <b>Practicals:</b> 1.) Ohm's law experiment.  2.) Resistance of a galvanometer by half - deflection method.  <b>Activity:</b> Assemble the components of a given electrical circuit.  Create a digital poster on electrical safety at home explaining the effects of electrical shock.	<b>Practicals:</b> Chromatography Volumetric analysis	such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness			Students explore real-life stress scenarios and analyze different stress responses.  Values: Awareness, Responsibility, Resilience, Emotional Well-being
<b>MAY</b>	Prose-Poets and pancakes Poem-- A Thing of Beauty	<ul style="list-style-type: none"> <li>Application of Derivatives (contd.)</li> <li>Integrals (Indefinite</li> </ul>	<b>Moving Charges and Magnetism</b> Biot - Savart law, Ampere's law, Lorentz's force.	Nucleic acid DNA & RNA Vitamins deficiency diseases	* Molecular Basis of Inheritance <b>Practicals</b> <ul style="list-style-type: none"> <li>Preparation of a temporary</li> </ul>	Binary File <ul style="list-style-type: none"> <li>Open (filename – absolute or relative path,</li> </ul>	<b>Macro Economics</b> National Income	Topics:  Meeting Life Challenges - Effects of Stress,

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	<p>Activity- Compose a poem on the beauty of nature using at least six poetic devices. Prose- Rattrap -The Enemy Writing Skill-Job Application Sample paper 1</p>	Integrals)	<p>Force between two parallel current-carrying conductors, torque on current loop, moving coil galvanometer.</p> <p><b>Magnetism and Matter</b> Bar magnet, magnetic field due to a magnetic dipole, torque on a magnetic dipole, magnetic field lines, Magnetic materials- Para, dia and ferro, Magnetization of materials.</p> <p><b>Practical:</b> 1.) Resistance of a given wire using a metre bridge.  2.) Frequency of AC mains with a</p>	<p><b>Electro-chemistry</b> Nernst equation Equilibrium constant and Gibb's free energy Measurement of conductivity of electrolytic solutions Commercial cells and fuel cells <b>Chemical Kinetics</b> Rate constant and rate laws Factors affecting rate of reaction</p> <p><b>Activity</b> Storytelling: create a story on speed of reaction and factors. (group activity)</p>	<p>mount of onion root tip to study mitosis</p> <ul style="list-style-type: none"> <li>Study of meiosis in onion bud cell or grasshopper testis through permanent slides</li> </ul>	<p>mode) / Close a binary file, Pickle Module – methods load and dump;</p> <ul style="list-style-type: none"> <li>Read,</li> <li>Write / Create,</li> <li>Search,</li> <li>Append and</li> <li>Update operations in a binary file</li> </ul> <p><b>FUNCTIONS - 7 classes</b></p> <p><b>PROJECTS - 4 classes</b></p>		<p>GAS model, Coping with Stress, Promoting Positive Health and well-being</p> <p>Psychological Disorders - Concept of Abnormality and Historical Background</p> <p>Practical - SCQ</p> <p>Activity: Research-Based Project - Impact of social media on teen mental health;</p> <p>-Stigma and mental illness</p> <p>Values: Empathy and compassion,</p>

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			sonometer.  <b>Activity:</b> Measure resistance, voltage, current and check continuity of a given circuit using multimeter.  Poster/report: "Magnetism in everyday devices"					Respect for individuals, Non-judgmental attitude, Emotional resilience, Inclusivity and social responsibility
<b>JULY</b>	Prose-Indigo - Going Places Poem-A Roadside Stand Writing Skill -Invitation & Replies Activity: Visual Mapping of Gandhi's Movements (Art Integration & Interdisciplinary Task)	<ul style="list-style-type: none"> <li>Integrals(Definite Integrals)</li> <li>Application of Integrals</li> <li>Differential Equations</li> </ul>	<b>Electromagnetic Induction</b> Electromagnetic induction; Faraday's laws, Lenz's Law, Self and mutual induction.  <b>Alternating Current</b> Peak and RMS value of alternating	Integrated rate law Zero and first order reaction  <b>Aldehydes, Ketones, Carboxylic acids</b> Methods of preparation Physical and chemical properties	* Evolution * Human Health and Disease * Microbes in Human Welfare <b>Practicals</b> <ul style="list-style-type: none"> <li>Identification of flash cards / models showing examples of homologous and analogous organs.</li> </ul>	Revision Tour Lists, Tuples, Dictionaries, Strings-functions and applications  scope, parameter passing, mutable/immutable properties of data objects, pass values/ arguments to functions,	<b>Indian Economic Development</b> Chapter 5 Rural Development Chapter 6 Employment Chapter 7 Sustainable Development	Topics:  Psychological Disorders - Factors Underlying Abnormal Behaviour and major Psychological Disorders  Therapeutic Approaches -

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	create a visual map of India highlighting key locations associated with Mahatma Gandhi's major movements, with special reference to the Champaran episode from Indigo		<p>current/voltage; reactance and impedance; LCR series circuit, power factor, wattless current, AC generator, Transformer.</p> <p><b>Electromagnetic Waves</b> Displacement current, EM waves characteristics, Electromagnetic spectrum.</p> <p><b>Practical:</b> 1.) Focal length of a convex mirror, using a convex lens.  2.) Focal length of a convex lens by plotting a graph between <math>1/u</math> and</p>	<p>Nucleophilic addition reactions Carboxylic acids Naming and reactions Acidic nature And effect of electron withdrawing group Project: create a poster on use of carbonyl compound</p> <p><b>Practicals:</b> Functional group analysis</p>	<ul style="list-style-type: none"> <li>• Identification of common disease-causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images or specimens.</li> </ul>	<p>return values, functions using libraries: mathematical, and string functions.</p> <p><b>Python- Mysql Connectivity</b></p> <p><b>Project Synopsis</b> Back End Design and metadata</p>		<p>Nature and process of Psychotherapy</p> <p>Practical</p> <p>Activity: Therapy Comparison Chart- Students prepare a comparative table:</p> <p>-Founder -Core concept -Techniques -Suitable disorders</p> <p>Values: Empathy and non-judgmental attitude; Sensitivity toward mental health issues; Respect for diverse</p>

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			<p>1/v.</p> <p><b>Activity:</b> Draw the diagram of a given open circuit and mark the components that are not connected in proper order and correct the circuit.</p> <p>Cartoon Strip: Dialogue between Tesla and Edison(war of currents).</p>					perspectives and healing methods
<b>AUG</b>	Prose--The Interview Poem- Aunt Jennifer's Tigers Activity- Listening and speaking skills Art Integration-Digital	<ul style="list-style-type: none"> <li>Differential Equations (contd.)</li> <li>Linear Programming</li> <li>Probability</li> </ul>	<p><b>Ray Optics</b> Mirror formula, total internal reflection, refraction at spherical surfaces, thin lens formula, lens maker's formula, combination of</p>	<p><b>Organic compounds containing Nitrogen</b> Methods of preparation Physical and chemical properties</p>	<p>* Biotechnology: Principles and Processes</p> <p>* Biotechnology and its Applications</p> <p><b>Practicals</b></p>	<p><b>STACKS</b></p> <p><b>CSV File Handling</b></p> <p><b>Project work</b></p>	<p><b>Macro Economics</b> Balance of Payments and FER Theory of Income and Employment (Basic Concepts)</p>	<p>Topics:</p> <p>Therapeutic Approaches - Types of Therapies, Ethics in Psychotherapy</p> <p>Practical</p>

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	poster Sample Paper 2		<p>thin lenses, prism, microscopes and telescopes.</p> <p><b>Practical:</b> 1.) Angle of minimum deviation for a given prism.</p> <p>2.) I-V characteristic curve for a p-n junction diode in forward and reverse bias.</p> <p><b>Activity:</b> Observe refraction and lateral deviation of light incident obliquely on a glass slab.</p>	<p><b>diazonium salts and their importance in the synthesis of a series of aromatic compounds</b></p> <p><b>d-f block elements</b> transition elements lanthanoid and actinoid</p> <p><b>Practicals:</b> 2.Salt analysis</p>	<ul style="list-style-type: none"> <li>● Identification of models/ specimens showing symbiotic association in lichens, root nodules of leguminous plants, and parasitic mode of nutrition shown by Cuscuta on host.</li> <li>● Isolation of DNA from available plant material such as spinach, green pea seeds,</li> <li>● papaya, banana etc.</li> </ul>	code and UI design, report generation and testing		<p>Activity: Ethical Debate</p> <p>Values: Emotional Intelligence Empathic Communication Responsibility in helping and supporting others</p>
<b>SEP</b>	Term 1 Exam Writing Skill- Revision W/S	Term 1 Exam Revision	<p>Revision</p> <p><b>Wave Optics</b> Wave front and</p>	Revision for Term-1 Exam	Organisms and Populations	Networking - Networking devices	Term 1 Examination Revision and Worksheets	Revision for mid term exams

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			<p>Huygen's principle, Proof of laws of reflection and refraction, Interference, Young's double slit experiment, coherent source, diffraction due to a single slit.</p> <p><b>Activity:</b> Diffraction of light due to a thin slit.</p> <p>Creative task: Make a "light patterns" collage from CDs, soap bubbles, polarized sunglasses, photos.</p>		<p><b>Practicals</b></p> <ul style="list-style-type: none"> <li>• Study the plant population density by quadrat method.</li> <li>• Study the plant population frequency by quadrat method</li> </ul>	<p>Revision Mid Term Exam</p>		
<b>OCT</b>	<p>Prose- On the Face of it - Memories of Childhood</p>	<ul style="list-style-type: none"> <li>• Vectors</li> <li>• Three-dimensional Geometry</li> <li>• Relations and functions</li> </ul>	<p><b>Dual Nature of Radiation and Matter</b> Dual nature of radiation,</p>	<p><b>Co-ordination Chemistry</b> Nomenclature rules Isomerism</p>	<p>* Organisms and Populations * Ecosystem</p>	<p><b>Networking Continued</b> Topologies, devices, switching</p>	<p><b>Macro Economics</b> Theory of Income and Employment <b>Indian Economic</b></p>	<p>Topics: Attitude and Social Cognition</p>

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	Writing Skill-Job Application Sample Paper 3		<p>Photoelectric effect, de-Broglie wavelength.</p> <p><b>Atoms and Nuclei</b> Alpha scattering, Bohr model, radius of nth orbit, velocity and energy of electron in nth orbit, hydrogen line spectra.</p> <p>Composition and size of nucleus, nuclear force, binding energy, nuclear fission, nuclear fusion.</p> <p><b>Semiconductor Electronics</b> Energy bands, Intrinsic and extrinsic semiconductors, I-V characteristics</p>	<p>Magnetic property Hybridization Geometry</p> <p><b>Practicals:</b> 1. Electro-chemistry 2. Preparation of Colloidal solution</p>	<p>* Biodiversity and Conservation</p> <p><b>Practicals</b></p> <ul style="list-style-type: none"> <li>Flowers adapted to pollination by different agencies (wind, insects, birds).</li> <li>Controlled pollination - emasculation, tagging and bagging.</li> </ul>	<p>techniques , mobile communication, protocols, webs services</p> <p><b>Practical File</b> Case study - School Network</p> <p>Revision Worksheets</p>	<p><b>Development</b> Chapter 8: A Comparative of India, China and Pakistan</p>	<p>Social Influence and Group Processes</p>

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			<p>in forward and reverse bias, rectifier.</p> <p><b>Activity:</b> Identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.</p> <p><b>Storytelling:</b> "How Einstein explained the photoelectric effect"</p>					
<b>NOV</b>	Revision Test	Revision Test	Revision Test	Revision Test	Revision Test	Revision Test	Revision Test	Revision Test
<b>DEC</b>	Pre-Boards	Pre-Boards	Pre Boards	Pre Boards	Pre Boards	Pre Boards	Pre- Boards	Pre-Boards
<b>JAN</b>	Practicals/ Revision	Board Practicals Revision	Board Practicals	Board Practicals	Practicals/ Revision	Board Practicals Revision	Practicals/ Revision	Board Practicals / Revision
<b>FEB</b>	Board Exam	Board Exam	Board Exam	Board Exam	Board Exam	Board Exam	Board Exams	Board Exams