

ENGLISH

<u>Rationale</u>

Students are expected to have acquired a reasonable degree of language proficiency in English by the time they come to class XI and the course will aim essentially, at promoting the higher-order language skills. For a large number of students this stage of learning will be a preparation for the university, and thereafter preparation

for a large number of scuaents this stage of learning will be a preparation for the university, and thereafter preparation for entry into the world of work, where a fairly high degree of proficiency in English may be required. The Core Course caters to both groups by promoting the language skills required for academic study as well as the language skills required for the workplace.

<u>Objectives:</u>

The general objectives at this stage are:

- to develop greater confidence and proficiency in the use of language skills necessary for social and academic purpose.
- to participate in group discussions, interviews by making short oral presentation on given topics.
- to identify the central/main point and supporting details, etc., to build communicative competence.
- to promote advanced language skills with an aim to develop the skills of reasoning, drawing inferences, etc. through meaningful activities.
- to develop ability and knowledge required in order to engage in independent reflection and enquiry.

At the end of this stage learners will be able to do the following:

- read and comprehend extended texts (prescribed and non-prescribed)
- text-based writing (i.e., writing in response to questions or tasks based on prescribed or unseen texts)
- understand and respond to lectures, speeches, etc.
- write expository / argumentative essays, explaining or developing a topic, arguing a case, etc.
- write items related to the workplace -minutes, memoranda, notices, summaries, reports etc.
- filling up of forms, making notes from reference materials, recorded talks etc.

Listening and Speaking Skills:

- Listening CSpeaking needs a very strong emphasis and is an important objective leading to professional competence.
- Hence, testing of oral skills is made an important component of the overall testing pattern.

Month	Topics	Objective/Skill/Theme	
	Familiarizing the students with the pattern of assessment		
	The Portrait of a Lady	Autobiographical account of author and his grandmother	
April	A Photograph	Understanding the theme of loss and bereavement	
	Posters	Drafting and designing posters on various issues	
	Tenses	Explanation and practice- gap filling	
	The Summer of The Beautiful White Horse	Dreams and aspirations - values of honesty & integrity	
June	The Laburnum Top	Transformation of energy between two elements of nature	
Jun	Note Making	Comprehending, making notes and summarizing	
	Sentence Transformation	Integrated Grammar Practice	
	Speech Writing	Writing speech on different topics	
	Debate writing	Explanation and practice	
a.c.	The Address	Human predicament that follows war	
July	Re-ordering sentences	Integrated Grammar Practice	
	We're Not Afraid to Die	First person narrative giving an idea about the life on a	
	Unit Test -I fr	om 28.07.2025 to 02.08.2025	
	Classified Advertisements	Drafting different categories of Classified Advertisements	
	Discovering Tut: The Saga Continues	Advanced technology helping in unearthing past events	
August	Mother's Day	Humorous and satirical depiction of the status of mother	
	The Voice of the Rain	Impact of rain on all living and non-living things	
	Clauses	Explanation and practice of different kinds of clauses	
Sentember	Childhood	Thematic comprehension of the losing childhood	
September	The Adventure	The story deals with unreal and hypothetical conditions	
	First Term Examination fro	m 18.09.2025 to 30.09.2025	
	Father to Son	Generation gap between father and son	
October	The Tale of Melon City	Satirical representation of those in power	
	Birth	Difference between textbook knowledge / practice	
November	Silk Road	Travelogue - Chronicles the challenges and hardships	
December	Project and ALS	Internal Assessment on the basis of project and ALS	
	Pre-Annual Exam from 01.12. 2025 to 13.12.2025		
January	Revision/ Mock Tests		
February	Final Term Examination from 11.02.2026 to 28.02.2026		

हिंदी

<u>प्रस्तावना</u>

पाठ्यक्रम में हिंदी विषय की उपयोगिता

भाषा मनुष्य के बीच संवाद का माध्यम ही नहीं है अपितु भाषा में मनुष्य के संस्कार, उसकी अस्मिता और पीढ़ियों से संचित गौरव अंतर्निहित है।

एक ओर जहाँ भाषा मनुष्य को सभ्यता, संस्कृति, साहित्य और ज्ञान—विज्ञान की विरासत को अक्षुण्ण रखती है वहीं आधुनिक संदर्भो में विकास के प्रतीकों को राष्ट्र के गौरव के रूप में सहजने का कार्य भी करती है। अतः संवैधानिक रूप से भारत की प्रथम राजभाषा तथा सर्वाधिक बोली और समझे जानी वाली भाषा हिंदी का पाठ्यक्रम में चयन विभिन्न उद्देश्यों को ध्यान में रखते हुए किया गया है जिसमें विद्यार्थियों का भाषिक दायरा एवं वैचारिक समृद्धि का विकास, सृजनात्मकता और संवेदनशीलता का परिष्कार, सौंदर्य बोध की समृद्धि, जीवन के विविध संदर्भो से जोड़ने वाले मानवीय गुणों का विकास आदि प्रमुख हैं।

हिंदी भाषा शिक्षण के विशिष्ट उद्देश्य—

- 1. विद्यार्थियों को हिंदी साहित्य की समृद्धि और शक्ति से परिचित कराना।
- 2. विद्यार्थियों में कल्पनाशीलता, विस्मय, कौतुहल, जिज्ञासा एवं सृजनात्मकता का विकास करना
- 3. भाषा एवं साहित्य के माध्यम से सांस्कृतिक धरोहर से विद्यार्थियों को जोड़ने का प्रयास करना
- 4. गद्य विधाओ के माध्यम से वैयक्तिक गुणों और क्षमताओं का विकास करना
- परंपरागत पद्धतियों से आगे बढ़कर आधुनिक जीवन के परिवेश, समकालीन यथार्थ तथा मानवीय मूल्यों के प्रति अडिग आस्था विकसित करना।

माह	अवधारणा	कौशल	
		श्रवण — कथन — पठन — लेखन — कौशल	
	जन संचार माध्यम	• समसामायिक विषयवस्तु पर अभ्यास।	
	फीचर के लेखन	• पदों का सार, व्याख्या,	
	हम तो एक—एक करि जाना (संत	 काव्यांशों पर आधारित प्रश्नोंत्तर, 	
	कबीर)	 भाव एवं शिल्प सौंदर्य। 	
अप्रैल	(पाठ्य पुस्तक आरोह भाग–1)		
	नमक का दरागा (प्रमचद)	• सार, व्याख्या, प्रश्नोत्तर ।	
	मारताय गायिकाओं के बजाड़, लता	• पाठ का सार	
	गरायर (युनार गयप) (यूर्प)	• पाठ्यपुस्तक के प्रश्नोत्तर	
		 परीक्षोपयोगी महत्त्वपूर्ण प्रश्नोंत्तर 	
जून	मियाँ नसरूद्दीन (कृष्णा सोबती)	• पाठ का सार	
	(पाठ्य पुस्तक आरोह भाग—1)	 पाठ्यपुस्तक के प्रश्नोंत्तर एवं परीक्षापयोगी प्रश्नोंत्तर 	
	अपू के साथ ढाई साल(सत्यजीत	• पाठ का सार	
	राय)	• पाठ्यपुस्तक के प्रश्नोंत्तर एवं परीक्षापयोगी प्रश्नोंत्तर	
	(पाठ्यपुस्तक आरोह भाग–1)		
	मेरे तो गिरधर गोपाल (मीरा)	• पदों का सार	
	(पाठ्य पुस्तक आरोह भाग–1)	 काव्यांशों पर आधारित प्रश्नोंत्तर 	
		 पाठ्यपुस्तक के प्रश्नोंत्तर 	
		 परीक्षोपयोगी महत्त्वपूर्ण प्रश्नोंत्तर 	
	अपठित गद्यांश, पद्यांश	• अभ्यास पत्रक के माध्यम से ।	
जुलाई	रिपोर्ट लेखन	• अभ्यास पत्रक के माध्यम से ।	
	रचनात्मक कौशल निबंध⁄ लेखन	• अभ्यास पत्रक के माध्यम से ।	
-	Unit Test -I from 28.07.2025 to 02.08.2025		
अगस्त	विदाई–संभाषण (बालमुकुंद गुप्त)	• पाठ का सार, व्याख्या	
	(पाठ्य पुस्तक आरोह– भाग–1)	• पाठ्यपुस्तक के प्रश्नोंत्तर	
		 परीक्षोपयोगी महत्त्वपूर्ण प्रश्नोंत्तर 	
	पथिक (रामनरेश त्रिपाठी)	• पदों का सार	
	(पाठ्य पुस्तक आरोह— भाग—1)	 काव्यांशों पर आधारित प्रश्नोंत्तर 	
		 पाठ्यप्स्तक के प्रश्नोंत्तर 	
		 परीक्षोपयोगी महत्त्वपर्ण प्रश्नोंत्तर 	

<u>पाठ्यचर्या कक्षा—XI</u> शिक्षार्थियों <u>में श्रवण, कथन, पठन एवं लेखन कौशल में दक्षता हेतु आयाम</u>

माह	अवधारणा	कौशल
		श्रवण — कथन — पठन — लेखन — कौशल
अगस्त	गलता लोहा (शेखर जोशी)	• पाठ का सार
	(पाठ्य पुस्तक आरोह– भाग–1)	• पाठ्यपुस्तक के प्रश्नोंत्तर एवं परीक्षापयोगी प्रश्नोंत्तर
	आलेख लेखन	• अभ्यास पत्रक के माध्यम से ।
सितंबर	स्पीति में बारिश (कृष्णनाथ)	• पाठ का सार, व्याख्या
	(पाठ्य पुस्तक आरोह– भाग–1)	 पाठ्यपुस्तक के प्रश्नोंत्तर
		 परीक्षोपयोगी महत्त्वपूर्ण प्रश्नोंत्तर
	घर की याद (भवानी प्रसाद मिश्र)	• पदों का सार
	(पाठ्य पुस्तक आरोह— भाग—1)	 काव्यांशों पर आधारित प्रश्नोंत्तर
		 पाठ्यपुस्तक के प्रश्नोंत्तर
		• परीक्षोपयोगी महत्त्वपूर्ण प्रश्नोंत्तर
	राजस्थान की रजत बूँदें (अनुपम	• पाठ का सार, व्याख्या
	मिश्र) (पूरक पुस्तक— वितान)	• पाठ्यपुस्तक के प्रश्नोंत्तर
		 परीक्षोपयोगी महत्त्वपूर्ण प्रश्नोंत्तर
	First Term Ex	amination from 18.09.2025 to 30.09.2025
अक्टुबर	चंपा काले–काले अक्षर नहीं चीन्हती	• पदों का सार
	(।त्रलाचन) (पादरा प्रस्तक आरोड— भाग—1)	 कवियाशा पर आधारत प्रश्नातर पाठराप्रस्वक के प्रश्नोंत्तर
		• परीक्षोपयोगी महत्त्वपूर्ण प्रश्नोंत्तर
	जामून का पेड (कृष्णचंदर)	• पाठ का सार, व्याख्या
	(पाठ्य पुस्तक आरोह– भाग–1)	• पाठ्यपुस्तक के प्रश्नोत्तर
		 परीक्षोपयोगी महत्त्वपूर्ण प्रश्नोत्तर
	गज़ल(दुष्यत कुमार)	 पदा का सार काव्यांशों पर आधारित प्रश्नोत्तर
		 पाठ्यपुस्तक के प्रश्नोंत्तर
		 परीक्षोपयोगी महत्त्वपूर्ण प्रश्नोंत्तर
नवम्बर	भारत माता (जवाहरलाल नेहरू)	• पाठ का सार, व्याख्या
	(पाठ्य पुस्तक आराह– माग–1)	 पाठ्यपुस्तक क प्रश्नात्तर परीक्षोपयोगी महत्त्वपर्ण प्रश्नोंत्तर
	हे! भूख मत मचल	• पदों का सार
	हे मेरे जूही के फूल जैसे ईश्वर	• काव्यांशों पर आधारित प्रश्नोंत्तर
	(अक्क महादेवी)	• पाठ्यपुस्तक के प्रश्नोंत्तर
	(पाठ्य पुस्तक आरोह– भाग–1)	• पराक्षापयांगी महत्त्वपूर्ण प्रश्नात्तर
	आलो–आँधारि (बेबी हालदार)	• पाठ का सार, व्याख्या
	(पूरक पुस्तक— ।वतान)	 पाठ्यपुस्तक क प्रश्नात्तर प्रश्रिभागगेगी महत्त्वपूर्ण प्रश्नोंत्वर
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माह	अवधारणा	कौशल	
		श्रवण — कथन — पठन — लेखन — कौशल	
नवम्बर	सबसे खतरनाक (अवतार सिंह पाश)	 पदों का सार काव्यांशों पर आधारित प्रश्नोंत्तर पाठयपस्तक के प्रश्नोंत्तर 	
		 परीक्षोपयोगी महत्त्वपूर्ण प्रश्नोंत्तर 	
	आओ मिलकर बचाएँ (निर्मला पुतुल)	 पदों का सार काव्यांशों पर आधारित प्रश्नोंत्तर पाठ्यपुस्तक के प्रश्नोंत्तर परीक्षोपयोगी महत्त्वपूर्ण प्रश्नोंत्तर 	
दिसंबर	पुनरावृत्ति	• पुनरावृत्ति (लेखन कौशल एवं पाठ्यपुस्तक)	
	Pre-Annual Exam from 01.12. 2025 to 13.12.2025		
जनवरी	पुनरावृत्ति	 पुनरावृत्ति (लेखन कौशल एवं पाठ्यपुस्तक) 	
फरवरी	Final T	erm Examination from 11.02.2026 to 28.02.2026	

PHYSICS

<u>Rationale:</u>

Physics lies at the heart of the natural sciences

Almost any scientific problem can be approached using the ideas and methods of physics.

Physics explains how the world works

Physics helps us understand why things in the natural world happen the way they do. It enables us to explain, for example, how buildings move in an earthquake, why a car takes as long as it does to come to a stop when the brakes are applied, why the sky is blue and grass green, and why the supports of a bridge have to be of certain dimensions. Physicists – and students studying physics – are able to use their understanding to predict how an object will behave under particular conditions, improve the functioning of everyday objects, and envisage totally new developments.

Physics is useful and exciting

The knowledge and processes used by physics have produced new and exciting technologies that are in everyday use. Almost any example of modern technology has its origins in mechanics, optics, electronics, thermodynamics, nuclear physics, or some other branch of physics. Physicists are challenged to discover how nature works; along the way, they get to know the excitement of explaining, seeing, or doing something that no one has understood or done before.

Learning in physics opens up career opportunities

Learning in physics will come in useful no matter what you go on to do. Employers value the kinds of skills that studying physics develops: the ability to grasp things quickly, focused solution finding, plus problem solving, analytical, mathematical, and IT skills.

People with a background in physics are found in all these areas and more: telecommunications, space, medicine, finance, law, music, television, environment, architecture, civil engineering, sports, gaming, energy, and education.

<u>Objectives:</u>

The Physics Department seeks to produce competent, productive physics graduates, as well as to contribute to the science education of all students. Upon successful completion f the prescribed program, the student will be able to

- 1. Demonstrate a breadth and depth of knowledge of physics which would lead to a successful career in a physics related profession such as engineering or education
- 2. Demonstrate a breadth and depth of knowledge of physics which would allow individuals to begin a graduate program in physics;
- 3. Apply analytical skills to such diverse professions as law, medicine, finance, telecommunications, etc.;
- 4. Demonstrate proficiency in the application of physics to problems of science, society, and technology

Month	Concept	Sub-Concept
April	Physical world and measurement (Units and Measurements)	 Need of measurement Units of measurements System of units SI units Fundamental and derived units Significant figures Determining the uncertainity in result Dimensions of physical quantities
	Kinematics (Motion in straight line)	 Dimensional analysis and its applications Frame of reference Motion in a straight line Elementary concepts of differentiation and Integration for describing motion
	Practicals	• Experiment No. 1 - To measure diameter of a small sphericial / cylindrical body and to measure internal diameter and dept of a given beaker / calorimenter using Vernier Callipers and hence find its volume.
	Kinematics Motion in straight line(Contd)	 Uniform and non-uniform motion Average speed and average velocioty Instantaneous velocity Uniformly accelerated motion Velocity-Time and Position-Time graphs Relations for uniformly accelerated motion (graphical and calculus treatment)
June	Motion in a plane	 Scalar and Vector quantities Position and displacement vectors General vectors and their notations Equality of vectors Multiplication of vectors by real number Addition and subtraction of vectors Unit Vector Resolution of vector in a plane Rectangular components Scalar and Vector product of vectors
	Motion in a Plane(Contd)	 Motion in a plane Cases of uniform velocity and uniform acceleration Projectile motion Uniform circular motion.

Month	Concept	Sub-Concept
July	Laws of Motion	 Intuitive concept of Force Inertia Newton's first law of motion Momentum and Newton's second law of motion Impulse Newton's third law of motion Law of conservation of linear momentum and its applications
	Laws of Motion	 Equilibrium of concurrent forces Static and kinetic friction Laws of friction Rolling friction, lubrication, Dynamics of uniform circular motion Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road) Motion in a vertical circle
	Work,energy and power	 Work done by a constant force and a variable force Kinetic energy, work- energy theorem power Notion of potential energy, potential energy of a spring Conservative forces and Non conservative forces Elastic and inelastic collisions in one and two dimensions
August	System of particles and Rotational motion	 Centre of mass of a two - particle system, momentum conservation and centre of mass motion Centre of mass of a rigid body Centre of mass of uniform rod Moment of Force, Torque and Angular momentum Law of conservation of angular momentum and its applications Equilibrium of rigid bodies, rigid body rotation and equations of rational motion, Comparison of linear and rotational motions. Moment of inertia, radius of gyration. Values of moments of inertia for simple geometrical objects (no derivation)
	Practicals	 Experiment No. 2 - To measure diameter of agiven wire and thickness of a given sheet using screw gauge. Experiment No. 3 - To determine volume of an irregular lamina using screw gauge.

Month	Concept	Sub-Concept
	Gravitation	 Kepler's laws of planetary motion Universal law of Gravitation
		• Acceleration due to gravity and its variation with altitude and depth.
		 Gravitational potential energy and Gravitational potential Escape speed Orbital Velocity of a satellite
		Energy of an orbiting satellite.
September	Practicals	• Experiment No. 4 - To determine radius of cuvature of agiven spherical surface by a spherometer.
		• Experiment No. 5 - To find the force constant of a helical spring by plotting a graph between load and extension.
September	Properties of Bulk Matter (Mechanical Properties of Solids)	 Elasticity, Stress-strain relationship, Hooke's Law Young's modulus Bulk modulus
		 Shear modulus of rigidity (qualitative idea only) Poisson's ratio Elastic energy
		• Application of elastic behavior of material (qualitative idea only)
October	Properties of Bulk Matter	erm Examination from 18.09.2023 to 30.09.2023
	(Mechanical Properties of Fluids)	 Pressure due to a fund coump Pascal's law and its applications (hydraulic lift and hydraulic brakes) T float of anomina on floid anomena
		 Effect of gravity on futua pressure Viscosity
		 Stoke's law, Terminal velocity
		Streamline and turbulent flowCritical velocity
		Bernoulli's theorem and its simple applicationsSurface energy and surface tension
		Angle of contact
		• Excess of pressure across a curved surface
		 Application of surface tension laeas to arops bubbles Capillary rise
	Practicals	• Experiment No. 6 - To determine the coefficient of viscosity of a given viscous liquid by measuring terminal veclotiy of a given spherical body.
		• Experiment No. 7 - To study the relationship between the temperature of a hot body and time by plotting a cooling curve.

Month	Concept	Sub-Concept
Осtober	Properties of Bulk Matter (Thermal Properties of Matter)	 Heat, temperature thermal expansion of solids, liquids and gases anomalous expansion of water Specific heat capacity Cp and Cv Calorimetry Change in state – latent heat capacity Heat transfer – conduction, convection and radiation Thermal conductivity Qualitative ideas of black body radiation Wein's displacement law Stefan's law
October	Thermodynamics	 Stepan's taw Thermal equilibrium and definition of temperature zeroth law of thermodynamics Heat, Work and Internal energy First law of thermodynamics Second law of thermodynamics Thermodynamic state variable and equation of state Change in condition of gaseous state – isothermal, adiabatic reversible, irrevasible and cyclic process.
November	Behavior of perfect gases and Kinetic Theory of Gases Kinetic Theory	 Equation of state of a perfect gas Work done in compressing of gas Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature, rms speed of gas molecules Degrees of freedom Law of equi-partition of energy (statement only) Applications of specific heat capacities of gases Concepts of mean free path Avogadro's number
	Practicals Oscillations and waves(Oscillations)	 Experiment No. 8 - To study the relation between frequency and length of a given wire under constant tension using sonometer. Periods motion - time period, frequency, displacement as a function of time Periodic functions and their application Simple harmonic motion and its equations of motion phase Oscillations of a loaded spring, restoring force and force constant Energy in SHM Kinetic and potential energies Simple pendulum derivation of expression for its time period

Month	Concept	Sub-Concept
November	Oscillations and waves(Waves)	 Wave motion: Transverse and longitudinal waves Speed of travelling wave Displacement relation for a progressive wave Principle of superposition of waves Reflection of waves Standing waves in Strings Organ pipes – fundamental mode of harmonics Beats
December	Revision Pre-Annual Examination from 01.12.2025 to 13.12.2025	
January	Revisions	
February	Final Term Examination from 11.02.2026 to 28.02.2026	

CHEMISTRY

Rationale

Higher Secondary is the most crucial stage of school education because at this juncture specialized discipline based, content -oriented courses are introduced. Students reach this stage after 10 years of general education and opt for Chemistry with a purpose of pursuing their career in basic sciences or professional courses like medicine, engineering, technology and study courses in applied areas of science and technology at tertiary level. Therefore, there is a need to provide learners with sufficient conceptual background of Chemistry, which will make them competent to meet the challenges of academic and professional courses after the senior secondary stage. The new and updated curriculum is based on disciplinary approach with rigour and depth taking care that the syllabus is not heavy and at the same time it is comparable to the international level. The knowledge related to the subject of Chemistry has undergone tremendous changes during the past one decade. Many new areas like synthetic materials, bio -molecules, natural resources, industrial chemistry are coming in a big way and deserve to be an integral part of chemistry syllabus at senior secondary stage. At international level, new formulations and nomenclature of elements and compounds, symbols and units of physical quantities floated by scientific bodies like IUPAC and CGPPM are of immense importance and need to be incorporated in the updated syllabus. The revised syllabus takes care of all these aspects. Greater emphasis has been laid on use of new nomenclature, symbols and formulations, teaching of fundamental concepts, application of concepts in chemistry to industry/ technology, logical sequencing of units, removal of obsolete content and repetition, etc.

<u>Objectives</u>

The curriculum of Chemistry at Senior Secondary Stage aims to:

- promote understanding of basic facts and concepts in chemistry while retaining the excitement of chemistry.
- make students capable of studying chemistry in academic and professional courses (such as medicine, engineering, technology) at tertiary level.
- expose the students to various emerging new areas of chemistry and apprise them with their relevance in future studies and their application in various spheres of chemical sciences and technology.
- equip students to face various challenges related to health, nutrition, environment, population, weather, industries and agriculture.
- develop problem solving skills in students.
- expose the students to different processes used in industries and their technological applications.
- apprise students with interface of chemistry with other disciplines of science such as physics, biology, geology, engineering etc.
- acquaint students with different aspects of chemistry used in daily life.
- develop an interest in students to study chemistry as a discipline.
- integrate life skills and values in the context of chemistry.

Month	Concept	Sub-Concept
April	Some Basic Concepts of Chemistry	• General Introduction: Importance and scope of chemistry.
		• Nature of matter
		• Laws of chemical combination
		• Dalton's atomic theory
		• Concept of elements, atoms and molecules
		• Atomic and Molecular mass
		• Mole concept and molar mass
		Percentage composition
		• Empirical and Molecular Formulae
		Chemical reactions
		• Stoichiometry and calculations based on stoichiometry
	Practicals	Volumetric Analysis: (Acid Base Titration)
June	Structure of Atom	• Discovery of Electron, Proton and Neutron.
		• Atomic number, isotopes and isobars
		• Thomson's model and its limitations
		• Rutherford's model and its limitations
		• Bohr's model and its limitations
		• Concept of shell and subshells, dual nature of matter and light
		• De Broglie's relationship
		Heisenberg uncertainty Principle
		• Concept of orbitals
		• Quantum numbers
		• Shape of s, p and d orbitals
		• Rules forfilling electrons in orbitals-
		Aufbauprinciple
		• Pauli's exclusion principle
		• Hund's rule
		• Electronic configuration of atoms
		• Stability of half filled and completely filled orbitals
	Practicals	Volumetric Analysis: (Acid Base Titration)

Month	Concept	Sub-Concept
July	Classification of Elements and Periodicity in Properties	Significance of classification
		• Brief history of the development of the periodic table
		• Modern periodic law and the present form of periodic table,
		 Periodic trends in properties of elements- atomic radii, ionic radii, inert gas radii
		• Ionization enthalpy.
		• Electron gain enthalpy, electronegativity, valency.
		• Nomenclature of elements with atomic number greater than 100
	Chemical Bonding and	• Valence electrons, ionic bond, covalent bond
	Molecular Structure	 Bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory.
		Resonance, geometry of covalent molecules
		 VSEPR theory, concept of hybridization involving s, p and d orbitals and shapes of some simple molecules, molecular orbital theory of homonuclear diatomic
		• molecules (qualitative idea only)
	Unit Tes	st -I from 28.07.2025 to 02.08.2025
August	Chemical Bonding and Molecular Structure (contd.)	• Hydrogen bond
	Chemical Thermodynamics	 Concepts of Systems and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions.
		• First law of thermodynamics-internal energy and
		enthalpy, heat capacity and specific heat.
		• Measurement of ΔO and ΔH , Hess's law of constant heat summation, enthalpy of bond dissociation,
		combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution.
		• Second law of thermodynamics (brief introduction)
		• Introduction of entropy as a state Function, Gibbs
		energy change for spontaneous and non-spontaneous process, criteria for equilibrium.
		• Third law of thermodynamics (brief introduction)

Month	Concept	Sub-Concept
August	Equilibrium	Equilibrium in physical and chemical processes, dynamic
		nature of equilibrium, law of mass action, equilibrium
		constant,
		• Factors affecting equilibrium-Le Chatelier's principle,
		• Tonic equilibrium-conization of actus and bases, strong and weak electrolytes dearee of ionization ionization
		of poly basic acids.
	Practicals	Qualitative analysis
September	Equilibrium (contd.).	• Acid strength, concept of pH,
		• Henderson's Equation, hydrolysis of salts (elementary
		idea), buffer solution,
		• Solubility product, common ion effect (with illustrative
	Practicals	examples)
	Eirst Term F	• Qualitative Analysis
October	Redox Reactions	Concent of oxidation and reduction, redox reactions
		 oxidation number
		• Balancing redox reactions, in terms of loss and gain of
		electrons and change in oxidation number,
		Applications of redox reactions.
	Organic Chemistry-Some Basic	• General introduction, methods of purification,
	Principles and Techniques	qualitative and quantitative analysis, classification and
		TOPA(nomenclature of organic compounds
		• Electronic displacements in a covalent bona: Inductive
	Practicals	Element detection in organic compound
November	Organic Chemistry-Some Basic	Electronic displacements in a covalent bond: electromeric
	Principles and	effect, resonance and hyper conjugation
	Techniques(contd.)	• Homolytic and heterolytic fission of a covalent bond:
		free radical carbocation, carbanions electrophiles and
		nucleophiles, types of organic reactions.
	Hydrocarbons	• Classification of Hydrocarbons: Aliphatic Hydrocarbons
		• Alkanes-Nomenclature, isomerism, conformation
		(eninane only) physical properties, chemical reactions
		combustion and pyrolysis
		 Alkenes-Nomenclature, structure of double bond
		(ethene), geometrical isomerism, physical properties,
		methods of preparation, chemical reactions: addition of
		hydrogen, halogen, water, hydrogen halides
		(Markonikov's addition and peroxide effect), ozonolysis,
		oxidation, mechanism of electrophilic addition.
		• AIRynes–Nomenclature, structure of triple bond
		(UNITE), • Physical properties method of preparation chemical
		reactions, acidic character of alkynes, addition reaction
		of-hydrogen, hydrogen halides and water
	Practicals	Element detection in organic compound

Month	Concept	Sub-Concept	
December		Revision and practicals	
	Pre-Ann	Pre-Annual Examination from 01.12.2025 to 13.12.2025	
	Hydrocarbons	Aromatic hydrocarbons: Introduction	
		• IVPAC nomenclature	
		• benzene: resonance, aromaticitiy	
		• chemical properties: mechanism of electrophilic substituion, Nitration sulphonation, Halogenation Friedel Craft's alkylation and acylation	
		• directive influence of functional group in monosubstituted benzene	
		Carcinogenicity and toxicity.	
January		Revision	
February	Final term Examination from 11.02.2026 to 28 .02. 2026		

BIOLOGY

<u>Rationale:</u>

The present syllabus reinforces the ideas introduced till the secondary classes. It provides the students with new concepts along with an extended exposure to contemporary areas of the subject. The syllabus also aims at emphasizing on the underlying principles that are common to both animals and plants as well as highlighting the relationship of biology with other areas of knowledge. The format of the syllabus allows a simple, clear, sequential flow of concepts without any jarring jumps. The syllabus also stresses on making better connection among biological concepts. It relates the study of biology to real life through the use of technology. It links the discoveries and innovation in biology to everyday life such as environment, industry, health and agriculture. The updated syllabus also focuses on reducing the curriculum load while ensuring that ample opportunities and scope for learning and appreciating basic concepts of the subject continue to be available within its framework.

Objective:

- Promote understanding of basic principles of Biology
- Encourage learning of emerging knowledge and its relevance to individual and society
- Promote rational/Scientific attitude towards issues related to population, environment and development
- Enhance awareness about environmental issues, problems and their appropriate solutions
- Create awareness amongst the learners about diversity in the living organisms and developing respect for other living beings
- Appreciate that the most complex biological phenomena are built on essentially simple processes.

Month	Concept	Sub-Concept	
April	Chapter-8:Cell-The Unit of Life	• Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles, mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus.	
	Chapter- 9:Biomolecules	• Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzyme - types, properties, enzyme action. (Topics excluded: Nature of Bond Linking Monomers in a Polymer, Dynamic State of Body Constituents – Concept of Metabolism, Metabolic Basis of Living, The Living State)	
	Chapter-10:Cell Cycle and Cell Division	• Cell cycle, mitosis, meiosis and their significance	
June	Chapter- 13:Photosynthesis in Higher Plants	• Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C3 and C4 pathways; factors affecting photosynthesis.	
	Practical	 Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds Study of osmosis by potato osmometer. Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb). 	
	Chapter- 14:Respiration in Plants	• Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient.	
	Chapter-15: Plant- Growth and Development	• Seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and redifferentiation; sequence of developmental processes in a plant cell; growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA;	
	Practical	 Study of distribution of stomata on the upper and lower surfaces of leaves. Comparative study of the rates of transpiration in the upper and lower surfaces of leaves. 	
July	Chapter-17:Breathing and Exchange of Gases	• Respiratory organs in animals (recall only); Respiratory system in humans; mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders	
	Practical	• Separation of plant pigments through paper chromatography.	
	Unit Test -I from 28.07.2025 to 02.08.2025		

Month	Concept	ot Sub-Concept	
August	Chapter-18:Body Fluids and Circulation	• Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; Regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure.	
	Practical	• Preparation and study of T.S. of dicot and monocot roots and stems (primary).	
	Chapter-19: Excretory Products and their Elimination	• Modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system – structure and function; urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of other organs in excretion; disorders - uremia, renal failure, renal calculi, nephritis; dialysis and artificial kidney, kidney transplant.	
	Practical	Test for presence of urea in urine.Test for presence of sugar in urine.	
	Chapter-20: Locomotion and Movement	• Types of movement - ciliary, flagellar, muscular; skeletal muscle, contractile proteins and muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal systems - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout.	
September	Chapter-21:Neural Control and Coordination	• Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse.	
	Practical	• Test for presence of albumin in urine.	
	Chapter-22: Chemical Coordination and Integration	• Endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone action (elementary idea); Role of hormones as messengers and regulators, hypo - and hyperactivity and related disorders; dwarfism, acromegaly, cretinism, goiter, exophthalmic goitre, diabetes, Addison's disease. Note: Diseases related to all the human physiological systems tobe taught in brief.	
	Practical	Test for presence of bile salts in urine.	
	NOTE: Digestion and Absorption (only for formative assessment as per CBSE pattern) Alimentary canal and digestive glands, role of digestive enzymes and gastrointestinal hormones; digestion, absorption and assimilation of proteins, carbohydrates and fats; calorific values of pro carbohydrates and fats; egestion; nutritional and digestive disorders - PEM, indigestion, constip vomiting, jaundice, diarrhoea.		
		First Term Examination from 18.09.2025 to 30.09.2025	
October	Chapter-1: The Living World	• Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature	
	Chapter-2:Biological Classification	• Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroids.	

Month	Concept	Sub-Concept
October	Chapter-3:Plant Kingdom	 Classification of plants into major groups; Salient and distinguishing features and a few examples of Algae, Bryophyta, Pteridophyta, Gymnospermae (Topics excluded – Angiosperms, Plant Life Cycle and Alternation of Generations)
	Chapter-4:Animal Kingdom	 Salient features and classification of animals, non- chordates up to phyla level and chordates up to class level (salient features and at a few examples of each category).
	Practical	• Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).
November	Chapter-5: Morphology of Flowering Plants	• Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae
	Chapter-6: Anatomy of Flowering Plants	• Anatomy and functions of tissue systems in dicots and monocots.
	Chapter-7: Structural Organisation in Animals	• Morphology, Anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of frog.
December	Pre-Annual from 01.12.2025 to 13.12.2025	
January	Revision	
February	Final Term Examination from 11.02.2026 to 28.02.2026	

BIOTECHNOLOGY

Rationale:

The course in Biotechnology is introduced at +2 stage of Senior Secondary Education. It is now a part of formal education provided after first ten years of schooling under higher secondary sections as an optional subject. With the fast changing economic scenario, technological advancements in biology, the study of biotechnology has become very important.

Its syllabus content will give students a firm foundation in basic industrial application of biotechnology and its principles followed in various industries like health, microbiology, genetic engineering and plants and animal tissue culture.

In class XI the basic biotechnology application would be followed and in class XII advancements with respect to the techniques of biotechnology would be dealt with.

Objectives:

- To familiarize the students with genetic engineering techniques
- To familiarize the students with the applications of microbiology in industries
- To familiarize the students with the applications of biotechnology in health and medicines
- To familiarize the students with the computational aspects of biotechnology
- To familiarize the students with the applications of biotechnology in biochemistry

Month	Concept	Sub-Concept
April	Biotechnology: An overview	Historical Perspectives
		• Technology and Applications of Biotechnology
		• Global market and Biotech Products
	Biomolecules: Building Blocks	• Building Blocks of Carbohydrates - Sugars and their Derivatives
	Practical	Sterilization techniques
		• Preparation of bacterial growth medium
June	Biomolecules: Building Blocks (Continued)	Building Blocks of Proteins - Amino Acids
	Practical	• Sugar Estimation using Di Nitro Salicylic Acid test (DNS test)
		• Protein estimation by biuret method
July	Biomolecules: Building Blocks (Continued)	• Building Blocks of Lipids - Simple Fatty Acids, Glycerol and Cholesterol
		• Building Blocks of Nucleic Acids – Nucleotides
	Prestical	Blood agglutination
	Factical	Cell counting
	Unit Test -	-I from 28.07.2025 to 02.08.2025
August	Macromolecules: Structure L	Carbohydrates - The Energy Givers
	Function	• Proteins - The Performers
		Enzymes - The Catalysts
		• Lipids and Biomembranes - The Barriers
		Nucleic Acids - The Managers
	Genetics	Historical Perspective
		Multiple Alleles
		Linkage and Crossing Over
		Genetic Mapping
	Practical	• Preparation of buffers and pH determination
September	Genes and Genomes: Structure and	Discovery of DNA as genetic material
	Function	DNA replication
		• Fine structure of the genes
	Practical	Assay for amylase enzyme
	First Term Exan	nination from 18.09.2025 to 30.09.2025

Month	Concept	Sub-Concept
October	Genes and Genomes: Structure and Function (Continued)	From Gene to Protein
		• Transcription – The basic process
		• Genetic code
		Translation
		• Mutation and Human genetic disorders
	The Basic Unit of Life	Cell Structure and Components
		Organization of Life
	Practical	Revision of Practical Start
November	Cell Growth and Development	Cell Division
		Cell Cycle
		Cell Communication
		Nutrition
		Reproduction
		• Immune Response in Animals
December	Pre-Annual From 01.12.2025 to 13.12.2025	
January	Revision	
February	Final Term Examination From 11.02.2026 to 28.02.2026	

CORE MATHEMATICS

The Syllabus in the subject of Mathematics has undergone changes from time to time in accordance with growth of the subject and emerging needs of the society. Senior Secondary stage is a launching stage from where the students go either for higher academic education in Mathematics or for professional courses like Engineering, Physical and Bioscience, Commerce or Computer Applications. The present revised syllabus has been designed in accordance with National Curriculum Framework 2005 and as per guidelines given in Focus Group on Teaching of Mathematics 2005 which is to meet the emerging needs of all categories of students. Motivating the topics from real life situations and other subject areas, greater emphasis has been laid on application of various concepts.

<u>Objectives</u>

The broad objectives of teaching Mathematics at senior school stage intend to help the students:

- to acquire knowledge and critical understanding, particularly by way of motivation and visualization, of basic concepts, terms, principles, symbols and mastery of underlying processes and skills.
- to feel the flow of reasons while proving a result or solving a problem.
- to apply the knowledge and skills acquired to solve problems and wherever possible, by more than one method.
- to develop positive attitude to think, analyze and articulate logically.
- to develop interest in the subject by participating in related competitions.
- to acquaint students with different aspects of Mathematics used in daily life.
- to develop an interest in students to study Mathematics as a discipline.
- to develop awareness of the need for national integration, protection of environment, observance of small family norms, removal of social barriers, elimination of gender biases.
- to develop reverence and respect towards great Mathematicians for their contributions to the field of Mathematics.

Month	Concept	Sub-Concept		
April	Set Theory	• Definition, Types of Sets, Venn Diagrams, Applications		
	Relations and Functions	• Definition, Cartesian Product, Representation of Relation, Function, Types of Function, Domain and Range.		
	Complex Number	 Need for complex numbers, especially √ −1, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. 		
		Araand plane		
June	Arithmetic Progression	Arithmetic mean		
	Geometric Progression	• General term, Sum of n terms, selection of terms, Geometric mean, Properties and Applications		
	Linear Inequation	• Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line.		
July	Trigonometric Function	• Definition, Identities of trig. function		
	Graphs of T Ratios	• sinx. cosx. tanx. cosecx. secx. cotx		
	Compound Angles	• <i>Expression of sin</i> $(A \pm B)$, cos $(A \pm B)$, tan $(A \pm B)$		
	Transformation Formula	• Transformation of Product of trig. ratios in to their sum, sum in to product		
	Unit Test -1 from 28.07.2025 to 02.08.2025			
	Multiple & Submultiple Angles	• Identities related to sin 2x, cos2x, tan 2x, sin 3x, cos3x, tan 3x		
August	Straight Lines	 Brief recall of two dimensional geometry from earlier classes. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form, Distance of a point from a line 		
	Straight Lines	• Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form, Distance of a point from a line		
	Circle	• Definition, various forms of equation of circle		
	Conic Section	Parabola		
		• Ellipse		
September	Permutation and Combination	• Fundamental theorem of counting, factorial notation, permutation, permutation under certain conditions, combination, properties, practical problems, mixed problems		

Month	Concept	Sub-Concept	
October	Binomial Theorem	• Introduction, expansion of $(a+b)^n$, General term, middle term, and simple applications	
	Probability	• Introduction definitions of terms related to probability, axiomatic probability, addition theorem	
	Limits	• Left hand and right hand limit, evaluation of limits by algebraic method, trigonometric limits, some standard limits	
	First Term Examination	from 18.09.2025 to 30.09.2025	
November	Limits LDerivatives	• some standard limits,	
		• <i>derivative of function by first principal, product rule and quotient rule</i>	
	3D	• Introduction to 3D, Octants, Distance formula, Section formula	
	Statistics	• Measures of dispersion, mean deviation, variance and standard deviation	
December	Revision		
	Pre-Annual Exam fro	m 01.12. 2025 to 13.12.2025	
January	Revision		
February	Final Term Examination from 11.02.2026 to 28.02.2026		

APPLIED MATHEMATICS

The Syllabus in the subject of Mathematics has undergone changes from time to time in accordance with growth of the subject and emerging needs of the society. Senior Secondary stage is a launching stage from where the students go either for higher academic education in Mathematics or for professional courses like Engineering, Physical and Bioscience, Commerce or Computer Applications. The present revised syllabus has been designed in accordance with National Curriculum Framework 2005 and as per guidelines given in Focus Group on Teaching of Mathematics 2005 which is to meet the emerging needs of all categories of students. Motivating the topics from real life situations and other subject areas, greater emphasis has been laid on application of various concepts.

<u>Objectives</u>

The broad objectives of teaching Mathematics at senior school stage intend to help the students:

- to acquire knowledge and critical understanding, particularly by way of motivation and visualization, of basic concepts, terms, principles, symbols and mastery of underlying processes and skills.
- to feel the flow of reasons while proving a result or solving a problem.
- to apply the knowledge and skills acquired to solve problems and wherever possible, by more than one method.
- to develop positive attitude to think, analyze and articulate logically.
- to develop interest in the subject by participating in related competitions.
- to acquaint students with different aspects of Mathematics used in daily life.
- to develop an interest in students to study Mathematics as a discipline.
- to develop awareness of the need for national integration, protection of environment, observance of small family norms, removal of social barriers, elimination of gender biases.
- to develop reverence and respect towards great Mathematicians for their contributions to the field of Mathematics.

Month	Concept	Sub-Concept
April	SETS	• Definition
		Representation, types
		• Operations on sets
		Practical problemes
	RELATIONS	• Definition
		• Domain, range of a relation
		• Types of a relation
	Binary numbers	Binary numbers, decimal numbers
		• Conversion from binary to decimal
		Conversion from decimal to binary
	Indices and logarithms	Introduction, laws of exponants
		Introduction, laws of logarithms
June	Arithmatic progression	• Definition, nth term, sum to n terms
		• Properties of AP
		• Arithmatic mean
	Geometric progression	• Definition, sum, sum to infinite g.p
		• Geometric mean
		Relation between AM and GM
	Quantitative apptitude	• Clock: problems on clock
		Seating arrangement
		Calender
July	Quantitative apptitude	• Time work and distances
	Functions	• Definition
		• Domain and range of a function
		• Graphs of real functions
	Limits	Introduction
		• Concept
		• Limits by factorization, rationalization
	Continuity	• Definition
		Continuity of a real function
		Unit Test -I from 28.07.2025 to 02.08.2025
August	Differentiation	Definition
	al a famali fa	Darivative of composite, implicit, exponentials, logarithmic functions
	Mathematical reasoning	Oaa man out Blood relation
		Coadina-decoalina
L		Country woodwing

Month	Concept	Sub-Concept	
August	Straight lines	• Slope of a line	
		• Equations of line in different forms	
		• Angle between two lines	
		• Distance of a point from a line	
September	Circle	Standard equation of circle	
		• General equation of a circle	
	Ormelala	• Diameter form of a circle	
	Paradola	• Standerd equation of a parabola	
		• Factorial notations	
	Permutations	• Principle of counting	
		• Permutation under certain conditions	
	First Ter	rm Examination from 18.09.2025 to 30.10.2025	
October	Combination	Combination when all objects distinct	
	Orach shilitan	Mixed problem	
	9700aouity	Conditional probability	
	Statistics	• Measures of dispersion	
		• Mean, variance and standard deviation	
November	Annuties	• Present value of annuity	
	Taxation	• Future value of annuity	
	Jazanon	• GST, CGST, Income Tax	
December		Revision	
	Pre-Annual Exam from 01.12.2025 to 13.12.2025		
January		Revision	
February		Final Term Examination from 11.02.2026 to 28.02.2026	

ECONOMICS

<u>Rationale</u>

Economics is one of the social sciences, which has great influence on every human being. As economic life and the economy go through changes, the need to ground education in children's own experience becomes essential. While doing so, it is imperative to provide them opportunities to acquire analytical skills to observe and understand the economic realities.

At senior secondary stage, the learners are in a position to understand abstract ideas, exercise the power of thinking and to develop their own perception. It is at this stage, the learners are exposed to the rigour of the discipline of economics in a systematic way.

The economics courses are introduced in such a way that in the initial stage, the learners are introduced to the economic realities that the nation is facing today along with some basic statistical tools to understand these broader economic realities. In the later stage, the learners are introduced to economics as a theory of abstraction.

The economics courses also contain many projects and activities. These will provide opportunities for the learners to explore various economic issues both from their day-to-day life and also from issues, which are broader and invisible in nature. The academic skills that they learn in these courses would help to develop the projects and activities. The syllabus is also expected to provide opportunities to use information and communication technologies to facilitate their learning process.

Objectives:

- Understanding of some basic economic concepts and development of economic reasoning which the learners can apply in their day-to-day life as citizens, workers and consumers.
- Realisation of learners' role in nation building and sensitivity to the economic issues that the nation is facing today.
- Equipment with basic tools of economics and statistics to analyse economic issues. This is pertinent for even those who may not pursue this course beyond senior secondary stage.
- Development of understanding that there can be more than one view on any economic issue and necessary skills to argue logically with reasoning.

Month	Concept	Sub-Concept
April	Unit-I Introduction	Chapter-1[Concept of Economics and Significance of Statistics in Economics]
	Introduction	Concent of Economics
		• What is Statistics
		 Scope of statistics in Economics
		 Functions and Importance of Statistics in Economics
	Unit_3	Chanter-9 [Measure of Central Tendency-Arithmetic Mean]
	Statistical Tools and	Introduction and Meanina
	Interpretation]	Meaning of Arithmetic Mean
		 Individual Series Discrete Series and Continuous Series
		Chapter- 10[Measures of Central Tendency- Median and Mode
		• Introduction,
		• Computation of Median – Individual, Discrete and Continuous Series
		• Median in Special Cases , Graphic Location of Median
		• Merits and Demerits of Median,
		• Introduction,
		 Mode-Calculation of Mode – Individual, Discrete and Continuous Series
		• Mode in Special Cases ,Mode by Graphical Method ,
		Merits and Demerits of Mode
June	Unit-4	
	[Introduction]	Chapter- 1[Economics and Economy]
		• Meaning of Economics, Microeconomics and Macroeconomics
		Economy and Economic problem
		Normative and Positive Economics
		Chapter- 2 [Central problems of an economy]
		• Economic problem
		• What, How and For Whom to Produce
		Opportunity Cost
		Production possibility Curve (PPF/PPC)
		Chapter– 3 [Consumer's Equilibrium- Utility Analysis]
		Introduction
		Concept of utility, Total Utility, Marginal Utility
		Cardinal utility approach
		• Law of diminishing marginal utility
		• Conditions of Consumer 's equilibrium using Cardinal utility approach

Month	Concept	Sub-Concept
July	Unit–5 [Consumer's Equilibrium and	Chapter-4 [Consumer's Equilibrium- Indifference Curve Analysis]
	Demand]	 Oralian annu y approach Consumer's Budget - Budget Set and Budget line
		 Preferences of the consumer (indifference curve indifference)
		map)
		Conditions of consumer's equilibrium-Ordinal Approach
		Chapter– 5 [Theory of Demand]
		Meaning of Demand
		• Demand Schedule – Individual and Market Demand
		Demand Curve – Individual and Market
		• Determinants of Individual Demand and Market Demand
		• Demand Schedule and Demand Curve, slope of Demand Curve
		• Law of Demand
		• Movement Along the Demand Curve (Change In Quantity Demanded)
		• Shift in Demand Curve (Change In Demand)
		• Movement along Demand Curve Vs. Shift in Demand Curve
		 Substitute Goods and Complementary Goods Normal goods and Inferior goods
		Chapter– 6 [Price Elasticity of Demand]
		Concept of Price Elasticity of Demand
		Factors affecting Price Elasticity of Demand
		Degrees of Elasticity of Demand
		• Percentage method of Measuring Price Elasticity of Demand
		• Total Expenditure method of Measuring Price Elasticity of Demand
	Unit-2	Chapter– 2 [Collection of Data]
	Collection, organization and	• Sources of data- Primary and Secondary Data
	presentation of data	• How basic data is collected with concepts of Sampling;
	 Unit Test -I	from 28.07.2025 to 02.08.2025
August	Unit- 2	Chapter-3 [Census and Sample Method]
	Collection , organization and	 Methods of collecting data;
	presentation of data	• Some important sources of secondary data
		• Census of India and National Sample Survey Organisation.
	Unit- 2 Collection , organization and presentation of data	Chapter-4 [Organisation of Data]
		Organisation of Data-Meaning
		• Types of variables
		Frequency Distribution.

Month	Concept	Sub-Concept
August	Unit-6 [Producer Behaviour and Theory of Supply]	 Chapter-7 [Production Function and Returns to a Factor] Production function -Meaning Short Run and Long Run Production Function Variable Factors and Fixed Factors Total Product, Average Product and Marginal Product Returns To A Factor: Law Of Variable Proportions Relationship Between TP and MP Relationship Between AP and MP
	Unit–6	Chapter– 8 [Concepts of Cost]
	[Producer Behaviour and Theory of Supply]	 Introduction and Meaning of Cost Short Run Costs- Total Cost, Total Fixed Cost, Total Variable Cost; Average Cost; Average Fixed Cost, Average Variable Cost and Marginal Cost Relationship between Short Run Cost Curves
September	Unit-2	Chapter- 5 [Tabular Presentation]
	Collection , organization and presentation data	 Introduction Essentials of a good table Guide lines for the construction of a table Parts and Types of Table
	Unit-2	Chapter— 6 [Diagrammatic Presentation of Data]
	Collection , organization and presentation of data	 Introduction General rules for constructing Diagrams and graphs Geometric forms (bar diagrams and pie diagrams)
	Unit-2	Chapter—7 [Frequency Diagrams]
	Collection , organization and presentation of data	 Frequency Diagrams-Histogram, Polygon and Ogive Chapter-8[Arithmetic Line – Graphs or Time Series Graphs] Construction of Graphs
		• Rules for constructing a Graph
		• Time Series Graphs (Arithmetic Line Graphs)
	Einst Com	Limitations of Diagrammatic and Graphic Presentation
0.1.6	First len	n Examination from 18.09.2025 to 30.09.2025
October	Ont–3 [Statistical Tools and Interpretation]	 Chapter - 11 [Correlation] Introduction - Concept, Definition and properties Types and Degree of Correlation, Scatter Diagram Karl Pearson's Coefficient of Correlation (two variables ungrouped data) Spearman's Rank Correlation Coefficient (Non-Repeated Ranks)
		and Repeated Ranks).

Month	Concept	Sub-Concept	
October	Unit–3 [Statistical Tools and Interpretation]	Chapter- 12 [Index Numbers] Introduction, Meaning of Index Numbers Types of Index Numbers - Wholesale Price Index Consumer Price Index (CPI) Index of Industrial Production Uses of Index Numbers Inflation and Index Numbers Simple Aggregative Method.	
	Unit–6 [Producer Behaviour and Theory of Supply]	 Chapter- 9 [Concept of Revenue] Meaning and Concept of Revenue Meaning of total, average and marginal revenue Relationship Between types of Revenue Chapter- 10 [Producer's Equilibrium] Introduction and Meaning of Producer's Equilibrium Conditions of Producer's Equilibrium using MR-MC Approach 	
November	Unit–6 [Producer Behaviour and Theory of Supply]	 Chapter- 11 [Theory of Supply] Meaning of Supply Market Supply and Individual Supply (Schedule) Market Supply and Individual Supply (Curves) Slope of Supply Curve Determinants of Supply (Individual and Market Supply) Law of Supply Movement along the Supply Curve (Change in Quantity Supplied) Shift in Supply curve (Change in Supply) Movement Along Supply Curve Vs. Shift in Supply Curve Price Elasticity of Supply Percentaae Method of Measuring Price Elasticity of Supply 	
	Unit-7 [Perfect Competition - Price Determination and simple applications]	 Chapter- 12 [Main Market Forms]: Perfect Competition Meaning of Market Perfect Competition – Features Chapter- 13 [Market equilibrium under Perfect competition and effects of Shifts in Demand and Supply] Determination of market equilibrium under perfect competition Viable and non-viable industry Effects of changes in demand and supply on market equilibrium(Change in demand, Change in supply and Changes in both demand and supply) Special cases Simple application of tools of demand and supply: Price Ceiling and Price Floor 	
December	Pre-A	Pre-Annual Examination 01.12.2025 to 13.12.2025	
January		Revision	
February	Final Term Examination from 11.02.2026 to 28.02.2026		
BUSINESS STUDIES

<u>Rationale:</u>

The courses in Business Studies is introduced at + 2 stage of Senior Secondary Education as formal commerce education is provided after first ten years of schooling. Therefore, it becomes necessary that instructions in these subjects are given in such a manner that students have a good understanding of the principles and practices bearing in business (trade and industry) as well as their relationship with the society.

The course in Business Studies will prepare students to analyse, manage, evaluate and respond to changes -which affect business. It provides a way of looking at and interacting with the business environment. It recognizes the fact that business influences and is influenced by social, political, legal and economic forces, it allows students to appreciate that business is an integral component of society and develops an understanding of many social and ethical issues. Therefore, to acquire basic knowledge of the business world, a course in Business Studies would be useful. It also informs

students of a range of study and work options and bridges the gap between school and work.

<u>Objectives</u>

- To develop students with an understanding of the processes of business and its environment;
- To acquaint students with the dynamic nature and inter-dependent aspects of business;
- To help students appreciate the economic and social significance of business activity and the social cost and benefits arising there from;
- To enable students to act more effectively and responsibly as consumers, employees, employees and citizens;
- To develop a business attitude and skills in students;
- To inculcate appropriate attitude and develop skills among students to pursue higher education, world of work including self employment.

Month	Concept	Sub-Concept
APRIL	Unit 1: Evolution and Fundamentals of Business	• History of Trade and Commerce in India: Indigenous Banking System, Rise of Intermediaries, Transport, Trading Communities: Merchant Corporations, Major Trade Centres, Major Imports and Exports, Position of Indian Sub-Continent in the World Economy.
		Business – meaning and characteristics
		Business, profession and employment Concept
		Objectives of business
		• Classification of business activities - Industry and Commerce
		 Industry-types: primary, secondary, tertiary Meaning and subgroups
		 Commerce-trade: (types-internal, external; wholesale and retail) and auxiliaries to trade; (banking, insurance, transportation, warehousing, communication, and advertising) – meaning
		Business risk-Concent
	Unit–2 Forms of Business Organisation	Introduction
		 Sole Proprietorship-Concept, merits and limitations. (Contd)
JUNE	Unit–2 Forms of Business Organisation	• Partnership-Concept, types, merits and limitation of partnership, registration of a partnership firm, partnership deed. Types of partners
		Hindu Undivided Family Business: Concept
		• Cooperative Societies-Concept, merits, and limitations.
		• Company - Concept, merits and limitations; Types: Private, Public and One Person Company – Concept
		• Formation of company - stages, important documents to be used in formation of a company
		• Choice of form of business organization
JULY	Chapter-3 Public, Private and	Introduction
	Multinational Company	• Public sector and private sector enterprises – Concept
		• Forms of public sector enterprises: Departmental Undertakings, Statutory Corporations and Government Company
		• Joint venture
		Multinational Company – Feature., Public private
		• partnership – concept

Month	Concept	Sub-Concept
JULY	Chapter–6 Social Responsibilities Of Business And Business Ethics	 Introduction Concept of Social Responsibility Case of Social Responsibility Responsibility towards owners, investors, consumers, employees, government and community. Role of business in environment protection Business Ethics - Concept and Elements
	Unit–4 Business Services	 Introduction Business services – meaning and types. Banking: Types of bank accounts - savings, current, recurring, fixed deposit and multiple option deposit account Banking services with particular reference to Bank Draft, Bank Overdraft, Cash credit. E-Banking meaning, Types of digital payments (Contd)
aaloalog	Unit Ies	t -1 from 28.07.2025 to 02.08.2025
A0G031	Onu-4 Business Services	 Insurance – Principles. Types – life, health, fire and marine insurance – concept Postal Service - Mail, Reaistered Post, Parcel, Speed Post,
		Courier - meaning
	Unit–5 Emerging Modes of Business	Introduction
		• <i>E</i> - business: concept, scope and benefits <i>Project Work</i>
	Unit–7 Sources of Business Finance	Introduction
		• Concept of business finance
		• Owners' funds- equity shares, preferences share, retained earnings, (Contd)
SEPTEMBER	Unit–7 Sources of Business Finance	• Borrowed funds: debentures and bonds, loan from financial institution and commercial banks, public deposits, trade credit, Inter Corporate Deposits (ICD).
	First Term Examination from 18.09.2025 to 30.09.2025	
OCTOBER	Unit–9 Internal Trade	Introduction
		• Internal trade - meaning and types services rendered by a wholesaler and a retailer
		• Types of retail-trade-Itinerant and small scale fixed shops retailers
		• Large scale retailers-Departmental stores, chain stores - concept
		• GST (Goods and Services Tax): Concept and key-features
	Unit–8 Small Business and Enterprises	• Entrepreneurship Development (ED): Concept, Characteristics and Need. Process of Entrepreneurship Development: Start-up India Scheme, ways to fund start- up. Intellectual Property Rights and Entrepreneurship
		• Small scale enterprise as defined by MSMED Act 2006 (Micro, Small and Medium Enterprise Development Act)

Month	Concept	Sub-Concept
NOVEMBER	Unit–8 Small Business and Enterprises	• Role of small business in India with special reference to rural areas
		• Government schemes and agencies for small scale industries: National Small Industries Corporation (NSIC) and District Industrial Centre (DIC) with special reference to rural, backward areas
	Unit–10 International Business	• International trade: concept and benefits
		• Export trade – Meaning and procedure
		• Import Trade - Meaning and procedure
		• Documents involved in International Trade; indent, letter of credit, shipping order, shipping bills, mate's receipt (DA/DP)World Trade Organization (WTO) meaning and objectives
DECEMBER	Revision	
12N7)2RY	2112-Annual Lymination J10112.2023 to 15.12.2023	
FABRUARY	Final Term Examination from 11.02.2026 to 28.02.2026	

ACCOUNTANCY

<u>Rationale:</u>

The course in accountancy is introduced at plus two stage of senior second of school education, as the formal commerce education is provided after ten years of schooling. With the fastchanging economic scenario, accounting as a source of financial information has carved out aplace for itself at the senior secondary stage. Its syllabus content provide students a firmfoundation in basic accounting concepts and methodology and also acquaint them with the changes taking place in the preparation and presentation of financial statements in accordance to the applicable accounting standards and the Companies Act 2013.

The course in accounting put emphasis on developing basic understanding about accounting as information system. The emphasis in Class XI is placed on basic concepts and process of accounting leading to the preparation of accounts for a sole proprietorship firm. The students are also familiarized with basic calculations of Goods and Services Tax (GST) in recording thebusiness transactions. The accounting treatment of GST is confined to the syllabus of class XI.

The increased role of ICT in all walks of life cannot be overemphasized and is becoming anintegral part of business operations. The learners of accounting are introduced to ComputerizedAccounting System at class XI and XII. Computerized Accounting System is a compulsorycomponent which is to be studied by all students of commerce in class XI; whereas in class XII it is offered as an optional subject to Company Accounts and Analysis of Financial Statements. This course is developed to impart skills for designing need based accounting database formaintaining book of accounts. The complete course of Accountancy at the senior secondary stage introduces the learners to the world of business and emphasize on strengthening the fundamentals of the subject.

<u>Objectives:</u>

1. To familiarize students with new and emerging areas in the preparation and presentation of financial statements.

2. To acquaint students with basic accounting concepts and accounting standards.

3. To develop the skills of designing need based accounting database.

4. To appreciate the role of ICT in business operations.

5. To develop an understanding about recording of business transactions and preparation of financial statements.

6. To enable students with accounting for Not-for-Profit organizations, accounting for Partnership Firms and company accounts.

Month	Concept	Sub-Concept
April	Introduction to Accounting	• Accounting: concepts and objectives, as a source of
		information,
		• Objectives, Advantages and limitations, types of accounting
		information; users of accounting information and their needs.
		• Qualitative characteristics of accounting information.
		Role of Accounting in business
	Accounting equation	Basic accounting terms
	Accounting equation	• Accounting equation: analysis of transactions using accounting equation
	Theory Base of Accounting	• Fundamental accounting assumptions: GAAP: Concept
		Basic accounting concept : Business Entity, Money
		Measurement, Going Concern,
		Accounting Period, Cost Concept, Dual Aspect, Revenue
		Recognition, Matching, Full Disclosure, Consistency,
Inne		Revision
Jun	Theory Base of Accounting	 System of Accounting Basis of Accounting:
	(Contd)	 Cash basis and accrual basis
		Accounting Standards: Applicability in Ind-AS
		 Goods and Services Tax (GST);
		 Characteristics and Advantages
	Recording of Transactions Journal	Rules of debit and credit: for assets, liabilities, capital, revenue and ermenses
	<i></i>	Unu expenses Voucher and Transactions: Source documents and Vouchers
		Preparation of Vouchers
		Books of original entry: Journal : format and recording
July	Ledger	• Ledger - format, posting from journal and subsidiary books, Balancing of accounts
	Cash Book	• Simple Cash Book, Cash Book with Bank column and Petty Cash Book
	Trial Balance	• Trial balance: objectives and preparation (Balance method only)
	Unit	Test -I from 28.07.2025 to 02.08.2025
August	Subsidiary books	• Other books: purchases book, sales book, purchases returns
		book, sales returns book and journal proper including simple GST calculation
	Financial Statements of Sole Proprietorship.(with and without adjustments)	• Meaning, objectives and importance; Revenue and Capital Receipts; Revenue and Capital Expenditure; Deferred Revenue expenditure. Opening journalentry. Trading and Profit and Loss Account: Gross Profit, Operating profit and Net profit. Preparation.Balance Sheet: need, grouping and marshalling of assets and liabilities. Adjustments in preparation of financial statements : with respect to closing stock outstanding erpenses
		statements . with respect to closing stock, outstanding expenses,

Month	Concept	Sub-Concept
August	Financial Statements of Sole Proprietorship.(with and without adjustments)	• prepaid expenses, accrued income, income received in advance, depreciation, bad debts, provision for doubtful debts, provision for discount on debtors, manager's commission, abnormal loss, goods taken for personal use/staff welfare, interest on capital, Preparation of Trading and Profit and Loss account and Balance Sheet of a sole proprietorship with adjustments
September	Bank Reconciliation Statement Project Work	 Bank reconciliation statement- need and preparation. Project Work: Complete (Final Accounts with adjustments) Complete Analysis.
	First Tern	examination from 18.09.2025 to 30.09.2025
October	Depreciation, Provisions and Reserves Rectification of Errors	 Depreciation: concept need features causes and factors affecting depreciation; Other similar terms: depletion and amortization Methods of computation of depreciation: straight line method, written down value method. Accounting treatment of depreciation: by charging to asset account, by creating provision for depreciation/ accumulated depreciation account, treatment of disposal of asset. Provisions and reserves: concept, objectives and difference between provisions and reserves; types of reserves- revenue reserve, capital reserve, general reserve and specific reserves difference between revenue reserve and capital reserve. Understand the meaning and different types of errors and their effect on trial balance.
November	Rectification of Errors (Contd.)	 Develop the skill of identification and location of errors and their rectification and preparation of suspense account. Features reasons and limitations
	Incomplete Records	 Ascertainment of profit/loss by Statement of Affairs method(excluding conversion method)
December	Pre-Annua	Revision Il Examination From 01.12.2025 to 13.12.2025
January	Revision	
February	Final Term Examination from 11.02.2026 to 28.02.2026	

ENTREPRENEURSHIP

<u>Rationale:</u>

Development of school curriculum is a dynamic process responsive to the society and reflecting the needs and aspiration of its learners. Fast changing society deserves changes in educational curriculum particularly to establish relevance to emerging socio-economic environment; to ensure equity of opportunity and participation and finally promoting concern for excellence. In this context the course of entrepreneurship aims at instilling and stimulating human urge for excellence by realizing individual potential for generating and putting to use the inputs, relevant to social prosperity and thereby ensure decent means of living for every individual.

<u>Objectives:</u>

- Acquiring Entrepreneurial spirit and resourcefulness
- Familiarization with various uses of human resource for earning dignified means of living
- Understanding the concept and process of entrepreneurship its contribution in and role in the growth and development of individual and the nation
- Acquiring entrepreneurial quality, competency and motivation
- Learning the process and skills of creation and management of entrepreneurial venture

April Unit-1 Entrepreneurship - Concept, Functions and Need. Entrepreneurship - Concept, Functions and Need. Entrepreneurship - Concept, Functions and Need. Entrepreneurship - Concept, Functions and Need. Entrepreneurship - Concept, Functions and Need. Entrepreneurship - Concept, Functions and Need. General functions Managerial functions Managerial functions Managerial functions Managerial functions Managerial functions Myths about Entrepreneurship. Pros and Cons of Entrepreneurship. Process of entrepreneurship June Unit-2 An Entrepreneur July Unit-2 An Entrepreneur July Unit-2 An Entrepreneur Unit 3: Entrepreneurship Journey Intrapreneur. Importance in any organization; Difference Unit 3: Entrepreneurship Journey Opportunity Assessment, Busine Idea Mugust Unit 3: Entrepreneurship Journey Continued -Business Plan Vinit 3: Entrepreneurship Journey Continued -Business Plan September Unit 4: Entrepreneurship as Innovation and Problem Entrepreneurs - as problem solver Solving Unit 4: Entrepreneurship as Innovation and Problem Entrepreneurs - asproblem solver <th>Month</th> <th>Concept</th> <th>Sub-Concept</th>	Month	Concept	Sub-Concept
June Unit-2 An Entrepreneur Types of Entrepreneurs. June Types of Entrepreneurs. Competencies and characteristics. July Unit-2 An Entrepreneur Entrepreneurial Values, Attitude and Motivation. July Unit-2 An Entrepreneur Intrapreneur. Importance in any organization; Difference Entrepreneur & Inntrapreneur. July Unit 3: Entrepreneurship Journey Opportunity Assessment, Busine Idea Unit 3: Entrepreneurship Journey Opportunity studies Unit 3: Entrepreneurship Journey Continued -Business Plan and its execution Teasibility studies Unit 3: Entrepreneurship Journey Vnit 3: Entrepreneurship Journey Continued -Business Plan and its execution September Unit 4 :Entrepreneurship Journey September Unit 4 :Entrepreneurship as Innovation and Problem Sofving September Quit 4 :Entrepreneurship as Innovation and Problem Sofving September Role of Technology – E-commerc	April	Unit–1 Entrepreneurship – Concept, Functions and Need.	 Entrepreneurship – Concept, Functions and Need. Entrepreneurial functions Commercial functions. Managerial functions. Commercial functions Myths about Entrepreneurship. Pros and Cons of Entrepreneurship. Process of entrepreneurshin
July Unit-2 An Entrepreneur Intrapreneur: Importance in any organization; Difference Entrepreneur & Inntrapreneur. Unit 3: Entrepreneurship Journey Opportunity Assessment, Busine Idea Unit 3: Entrepreneurship Journey Business Plan and its execution Etail Feasibility studies Unit 3: Entrepreneurship Journey Continued -Business Plan Vagust Unit 3: Entrepreneurship Journey September Unit 4:Entrepreneurship as Innovation and Problem Solving September Unit 4:Entrepreneurship as Innovation and Problem Solving Reasons for success and failure of Berneurs Reasons for success and Entrepreneurication Role of Technology – E-commercian Social Media Role of Technology – E-commerciand Social Media	June	Unit- 2 An Entrepreneur	 Types of Entrepreneurs. Competencies and characteristics. Entrepreneurial Values, Attitudes and Motivation. Business Ethics
Unit 3: Entrepreneurship Journey • Opportunity Assessment, Busine Idea Idea • Business Plan and its execution • Feasibility studies • Feasibility studies Unit 3: Entrepreneurship Journey • Continued -Business Plan August Unit 3: Entrepreneurship Journey • Continued -Business Plan September Unit 4:Entrepreneurship as Innovation and Problem • Entrepreneurs - as problem solves Solving • Innovations and Entrepreneuria Ventures - Global and Indian • Role of Technology - E-commerciand Social Media • Role of Technology - E-commerciand Social Media	July	Unit- 2 An Entrepreneur	• Intrapreneur: Importance in any organization; Difference Entrepreneur & Inntrapreneur.
August Unit 3: Entrepreneurship Journey Continued -Business Plan Preparation. September Unit 4:Entrepreneurship as Innovation and Problem Solving Entrepreneurs - as problem solves Innovations and Entrepreneuria Ventures – Global and Indian Role of Technology – E-commerce and Social Media		Unit 3: Entrepreneurship Journey Unit Test -I from 28.07.202	 Opportunity Assessment, Business Idea Business Plan and its execution Feasibility studies 5 to 02.08.2025
September Unit 4 :Entrepreneurship as Innovation and Problem Entrepreneurs - as problem solves Solving Innovations and Entrepreneuria Ventures – Global and Indian Role of Technology – E-commerce and Social Media Social Media	August	Unit 3: Entrepreneurship Journey	 Continued -Business Plan Preparation. Reasons for success and failure of BP.
 Social Entrepreneurship Concept Business Incubation 	September	Unit 4 :Entrepreneurship as Innovation and Problem Solving	 Entrepreneurs - as problem solvers. Innovations and Entrepreneurial Ventures – Global and Indian Role of Technology – E-commerce and Social Media. Social Entrepreneurship Concept. Business Incubation

Month	Concept	Sub-Concept
October	Unit 5 : Understanding The Market	MarketConcept & Types Micro and Macro Market Environment
		• Market Research - Concept, Importance and Process.
		• <i>E-Business and E-Commerce</i>
		• Marketing Mix.
November	Unit 6: Business Finance and Arithmeti	• Unit of Sale, Unit Price and Unit Cost -for single product or service.
		• Types of Costs - Start up, Variable and Fixed
		• Break Even Analysis - for single product
	Unit 7: Resource Mobilization	 Types of Resources - Human, Financial and Physical and Intangible resources. Selection and utilization of human resources and professionals. Estimatating Financial Requirements.
December	Revision	
	Pre-Annual Exam from 01.12.2025 to 13.12.2025	
January	Revision	
February	Final Term Examination from 11.02.2026 to 28.02.2026	

HISTORY

General Objective:

- Detailed study of some themes in ancient, medieval and modern world history. The object would be to study a set of these themes in depth rather than survey the entire chronological span of World history.
- They would come to know how historians analyze these sources, the problems and difficulties of interpreting each type of source, and the way a larger picture of an event, a historical process, or a historical figure, is built by looking different types of sources.

<u>Specific Objective:</u>

- Familiarize the learner with the evolution of man and its expansion all over the world.
- Familiarize the learner with early urban centres as economic and social institutions, introduce the ways in which new data can lead to a revision of existing notions of history.
- Familiarize the learner with major trends in the political and economic history of the world.
- Familiarize the learner with issues in social history, introduce strategies of textual analysis and their use in reconstructing social history.
- Discuss the major religious developments, introduce strategies of visual analysis and their use in reconstructing histories of religion.
- Familiarize the learner with the major landmarks in political history.
- Discuss how colonialism affected local societies and understanding their problems.
- Familiarize the learner with the history modern urban centres.
- Familiarize the learner with the significant elements of governance in different part of the world.

Month	Concept	Sub-Concept
a :c	EARLY SOCIETIES (SECTION-I) From the beginning of time	Only introduction
April	Writing and city life	Mesopotamia & its geography
		• Urbanism, development of writing, life in city, trading
	EMPIRES(SECTION-II)	Early empire– Roman
James	An empire across the three continents	Roman cities- Gender, Literacy, culture
June		Economic Expansion
		Social Hierarchies
	Nomadic Empire	Origin of Mongol empire
		Social L political background
		• Genghis Khan
		Social, political & military organization
July		Origin of Mongol empire
		Social & political background
		• Genghis Khan
		Social, political & military organization
	Unit Test -1 from 28.07.2025 to 02.08.2025	
	CHANGING TRADITIONS	• Introduction to feudalism
	(SECHON-III)	• First order– The Clergy
		Second order– The Nobility
	The Three orders	Third order– The Peasants
		Factors affecting social L economic relation
August		Fourth order– New town & people
,		Political Changes
	Changing Cultural Traditions	Revival of Italian cities
		Humanism – Humanist view of history
		Science I philosophy–Arab contribution
		Artist L Realism, Architecture
		Debats within Christianity
	Changing Cultural Traditions (Contd)	Renaissance– In the European
		Science & philosophy
September		Renaissance– In the European
		Revision
	First Term E	Examination from 18.09.2025 to 30.09.2025

Month	Concept	Sub-Concept
October	Displacing Indigenous Peoples	• European Imperialism
		North America
		Mutual Perception
		• Gold rush, and the growth of industries
		• Australia – The winds of change
November	Paths to Modernisation	• Japan– Political system, Meiji restoration, Modernising the economy, westernization L tradition
		• China– Establishing the Republic, Communist Party of China, Reforms & Two Roads of Modernization
		• Taiwan-Establishing the Republic
December	cember Revision Pre-Annual Exam from 01.12. 2025 to 13.12.2025	
January	Revision	
February	Final Term Examination from 11.02.2026 to 28.02.2026	

POLITICAL SCIENCE

<u>Rationale:</u>

At the senior secondary level students who opt Political Science are given an opportunity to get introduced to the diverse concerns of a Political Scientist. At this level there is a need to enable students to engage with political processes that surround them and provide them with an understanding of the historical context that has shaped the present. The different courses introduce the various streams of the discipline of Political Science; Political Theory, Indian Politics and International Politics. Concerns of the other two streams–Comparative Politics and Public Administration- are accommodated at different places in these courses. In introducing these streams, special care has been taken not to burden the students with the current jargon of the discipline. The basic idea here is to lay the foundations for a serious engagement with the discipline at the under graduation stage.

<u>General Objectives:</u>

- Enable the students to expand their horizons beyond India and make sense of the political map of contemporary world.
- Familiarize the students with some of the key political events and processes in the post cold war era.
- Equip students to be conscious of the way in which global events and processes shape our everyday lives.
- Strengthen their capacity for political analysis by thinking of contemporary developments in a historical perspective.

Specific Objectives:

- Enable students to become familiar with some of the key political events and figures in the post-independence period.
- Develop skills of political analysis through an understanding of events and processes of recent history.
- Develop their capacity to link macro processes with micro situations and their own life.
- Encourage the students to take a historical perspective of making sense of contemporary India.

Month	Concept Sub-Concept		
April	Part–A : Indian Constitution at work 1. Constitution: Why and How	• The making of the constitution the constituent assembly, procedural achievements and philosophy of the constitution	
	2. Rights in the Indian constitution	• The importance of rights, fundamental rights in the Indian constitution, directive principles of state policy, relationship between fundamental rights and directive principles	
	Part–B: Political Theory 1. Political Theory : An Introduction	• What is politics? What do we study in political theory? Putting political theory to practice, why should we study political theory?	
June	2. Freedom	• The ideal of freedom. What is freedom? Why do we need constraints? Harm principle, negative and positive liberty	
	3. Equality Part A: 3. Election and Representation	 Significance of equality. What is equality? Various dimensions of equality. How can we promote equality? Election and Democracy Election System in India Why did India adopt the FPTP system? Reservation of Constituencies Electoral Reform 	
July	Part–B	What is justice? Iust Distribution. Iustice as fairness.	
	4. Social Justice	Pursuing social justice	
	5. Rights	• What are rights? Where do rights come from? Legal rights and the state. Kinds of rights. Rights and Responsibilities	
	4. Executive	 What is an Executive? What are the different types of executives? Permanent Executive: Bureaucracy 	
August	Onut	1051 -1 Jtom 28.07.2023 to 02.08.2023	
August	5. Legislature	 Why do we need a Caritament? Why do we need two houses of Parliament? What does the Parliament do? 	
	6. Judiciary	• Why do we need an independent judiciary? Structure of the judiciary. Judicial activism, Judiciary and rights, Judiciary and Parliament	
	7. Federalism	• What is federalism? Federalism in the Indian constitution, federalism with a strong central govt, conflicts in India's federal system, special provisions	
	Part-B 6. Citizenship	• What is citizenship? Citizens and Nation, Universal Citizenship, Global Citizenship	
September	Part–B 7. Nationalism	• Nations and Nationalism, National self determination , Nationalism and Pluralism	
	8. Secularism	• What is secularism? What is secular state? The western and the Indian approaches to secularism. Criticism and Rationale of Indian secularism	
	First Term Examination from 18.09.2025 to 30.09.2025		

Month	Concept	Sub-Concept
October	Part–A 8. Local Governments	 Why do we need local governments? Growth of local government in India, 73rd and 74th Amendments, Implementations of 73rd and 74th Amendments
	9. Constitution as a living document	• Are constitutions static? The procedure to amend the constitution. Why have there been so many amendments? Basic structure and evolution of the constitution. Constitution as a living document
November	Part–A 10. The Philosophy of the Constitution	 What is meant by philosophy of the constitution? Constitution as means of Democratic Transformation Why doe we need to go back to the Constituent Assembly? What is the Political Philosophy of our Constitution?
December	Revision Pre-Annual Exam from 01.12. 2025 to 13.12.2025	
January	Revision	
February	Final Term Examination from 11.02.2026 to 28.02.2026	

GEOGRAPHY

<u>Rationale:</u>

Geography is introduced as an elective subject at the senior secondary stage. After ten years of general education, students branch out at the beginning of this stage and are exposed to the rigours of the discipline for the first time. Being an entry point for the higher education, students choose Geography for pursuing their academic interest and, therefore, need a broader and deeper understanding of the subject. For others, geographical knowledge is useful in daily lives because it is a valuable medium for the education of young people. Its contribution lies in the content, cognitive processes, skills and values that Geography promotes and thus helps the students explore, understand and evaluate the environmental and social dimensions of the world in a better manner.

<u>General Objectives:</u>

The course of Geography will help learners to:

- Familarise with key concepts, terminology and core principles of Geography.
- Describe locations and correlate with Geographical Perspectives.
- List/describe what students might see, hear, smell, at a place.
- List/describe ways a place is linked with other places.
- Compare conditions and connections in one place to another.
- Analyze/describe how conditions in one place can affect nearby places.
- Identify regions as places that are similar or connected.

Specific Objectives:

- Describe and interpret the spatial pattern features on a thematic map.
- Search for, recognize and understand the processes and patterns of the spatial arrangement of the natural features as well as human aspects and phenomena on the earth's surface.
- Understand and analyse the inter- relationship between physical and human environment and utilize such knowledge in reflecting on issues related to community.
- Apply geographical knowledge and methods of inquiry to emerging situations or problems at different levels-local, regional, national and global.
- Develop geographical skills, relating to collection, processing and analysis of spatial data information and prepration of report including maps and graphs and use of computers where ever possible; and to be sensitive to issues.

Month	Concept	Sub-Concept	
April	Unit–I [Introduction]	Chapter–1 [India: location]	
		• Latitudinal I Longitudinal extent, distance from North to South I East to West, Size, India and its Neighbours	
	Unit–II [Physiography]	Chapter-2 [Structure and Physiography]	
		 Geological reasons, Physiography, The North and North Eastern Mountains, The Northern Plains, The Penisular Plateau, The Indian Desert, The Coastal Plains, The Islnads. 	
	Unit–2 [Physiography]	Chapter–3 [Drainage System]	
		 Drainage Patterns, Himalayan Drainage, Evolution, Himalayan River System, Peninsular River System, Evolution, East and West Flowing Rivers, Usability of River Water. 	
	Practical: Introduction to maps	• Essential of map making and types, uses	
June	Unit-I [Geography as a	Chapter–1 [Geography as a Discipline]	
	Discipline]	 Geography as on integrating Discipline, Branches of Geography 	
	Unit-II [The Earth]	Chapter–2 [Origin and Evolution of the earth]	
		 Early theories, Modern theories, Star formation, Formation of planets, Our solar system, Origin of life Chapter–3 [The Interior of the Earth] 	
		• Direct and indirect sources, Earthquakes waves, Structure of the earth, Volcanoes, Volcanic landforms	
July	Unit–2 [The Earth]	Chapter-4 [Distribution of Oceans and Continents]	
		• Continental drift, Ocean floor configuration, distribution of earthquakes and volcanoes, Concept of sea floor, Spreading, Plate tectonics, Movement of Indian plate.	
	Unit–III [Landforms]	Chapter–5 [Geomorphic Process]	
		• Types, Weathering process, Mass movements, Soil formation	
	Practical: Map Scale	• L-2 (Map Scale)	
		Method of Scale, Conversion of Scale	
		• Bar Scale	
	Unit Test -1 from 28.07.2025 to 02.08.2025		
August	Unit–3[Climate, Vegetation and	Chapter-4 [Climate]	
	Soil]	• Weather and climate Unity and Diversity in the Monsoon Climate, Factors that determine the climate of India, Nature of Indian Monsoon, The Rhythem of Seasons, South-East North-West Monsoon, Distribution of Rainfall, Climatic Regions, Monsoon and Economic Life, Global warming1	
	Unit–III[Landforms]	Chapter–6 [Land forms and their Evolution]	
		• Running water, Erosional and depositional Landforms deltas, meanders, braided channels, different types of erosional & depositional land forms.	
	Practical :[Longitude, Latitude L Time]	• L–3 (Longitude, Latitude & Time)	

Month	Concept	Sub-Concept
September	Practical: [Map Projections]	Chapter–4 [Map Projections] Need, Elements and Classification, Conical Projection with one Standard Parallel and Cylindrical Equal Area Projection
	Unit–IV[Climate]	 Chapter-7 [Composition and Structure of Atmosphere] Composition of atmosphere, Structure of atmosphere Chapter-5[Natural Vegetation] Type of forests and distribution, conservation of forests, Wildlife conservation, biosphere reserves.
	First Term Examinat	tion from 18.09.2025 to 30.09.2025
October	Unit–IV [Climate]	 Chapter–8 [Solar Radiation Heat Balance and Temperature] Variability of Isolation, Terrestrial Radiation temperature (Inversion) Chapter–9 [Atmosphere Circulation and Weather Systems] Atmospheric pressure, Forces affecting the velocity and direction of wind, general circulation of the atmosphere Chapter–10 [Water in the Atmosphere] Evaporation & condensation, precipitation types and distribution of rainfall
	Practical:[Topographical Maps]	 Chapter–5 [Topographical Maps] Relief Representation Chapter–6 [Introduction to Remote Sensing] Stages of Remote Sensing, Sensors, Interpretation of Images and Elements of Visual Interpretation
November	Unit–V [Water Oceans]	 L-12 {Water- (Oceans)} Hydrological Cycle, Relief and division of ocean floor, salinity Chapter-13 [Movements of Ocean Water] Waves tides, types ocean currents and its types
December	Pre-Anni	Revision al Exam from 01.12.2025 to 13.12.2025
January		Revision
February	Final Term Examination from 11.02.2026 to 28.02.2026	

COMPUTER SCIENCE

<u>Objective:</u>

The course intends to develop skills related to python Programming which helps students to create a customized application software. Knowledge of network and Boolean algebra is helping students to make closure with computer architecture. The curriculum is designed to develop appropriate technical knowledge as well as the professional skill of the students.

<u>Learning Objectives:</u>

- Develop basic computational thinking
- Explain and use data types
- Appreciate the notion of algorithms
- Develop a basic understanding of computer systems- architecture, operating system, and cloud computing
- Explain cyber ethics, cyber safety, and cybercrime
- Understand the value of technology in societies along with consideration of gender and disability issues.

Month	Concept	Sub-Concept
April	Computer Systems and Organisation	Basic computer organization
	(CSO)	• Types of software
		• Operating System(OS)
June	Computer Systems and Organisation	Boolean logic
	(CSO)	Number System
		Encoding Schemes
July		Introduction to Problem-solving
	Computational Thinking and	Familiarization with the basics of Python proarammina
	Programming (PCT-1)	Knowledge of data types
		Operators
		• Expressions, statement, type conversion, and input/output
		• Errors- syntax errors, logical errors, and run-time errors
	Unit Test -I from	m 28.07.2025 to 02.08.2025
August	Computational Thinking and	Flow of Control
	Programming (PCT-1)	Conditional statements.
		Iterative Statement
		• Strings
September	Computational Thinking and	• Lists
	Grogramming (PC1-1)	• Tuples
	First Term Examinatio	m from 18.09.2025 to 30.09.2025
October	Computational Thinking and	• Dictionary
		Introduction to Python modules
November	Society, Law and Ethics Society (any and Ethics (SCE-1)-	• Digital Society and Netizen
	Cyber safety	Data Protection
		Cyber Crime
		• Cyber safety
		• Malware: viruses, trojans, adware
		• E-waste management: proper disposal of used electronic addrets
		 Information Technology Act (IT Act)
		 Technology and society.
December	Revision	
	Pre Annual Examinatio	on from 01.12.2025 to 13.12.2025
January	Revision	
February	Revision	
-	Final Term Examinat	tion from 11.02.2026 28.02.2026

INFORMATICS PRACTICES

Objective:

The course intends to develop skills related to PYTHON Programming which helps students to create customized application software. MySQL is helping students to manage database for real world problems. The course also provide knowledge of Computer System and Emerging Trends. The curriculum is designed to develop appropriate technical knowledge as well as the professional skill of the students.

<u>Learning Objectives:</u>

- Identify the components of computer system.
- Create Python programs using different data types, lists and dictionaries.
- Understand database concepts and Relational Database Management Systems.
- Retrieve and manipulate data in RDBMS using Structured Query Language
- Identify the Emerging trends in the fields of Information Technology.

Month	Concept	Sub-Concept
April	Introduction to Python	Basics of Python programming
		• Execution modes- interactive and script mode
		• The structure of a program, indentation, identifiers,
		keywords, constants, variables, operators L its types
June	Introduction to Python	• Precedence of operators
		• Data types, mutable and immutable data types
		• Statements, Expressions evaluation, Comments, input
-		and output statements
July	Introduction to Python	• Data type conversion
		• Debugging
		• Control Statements: if-else, if-elif-else, while loop, for
		loop
	Unit Test -	-I from 28.07.2025 to 02.08.2025
August	Introduction to Python	• Lists: list operations - creating, initializing, traversing and manipulating lists
		• List methods and built-in functions –
		len(),list(),append(),insert(), count(),index(),remove(), pop(), reverse(), sort(), min(),max(),sum()
		• Dictionary: concept of key-value pair, creating,
		initializing, traversing, updating and deleting
		elements
		 Dictionary methods and built-in functions – dict(), len(), keys(), values(), items(), update(), del(), clear()
		 Introduction to NumPy: Introduction, Creation of NumPy Arrays from List

Month	Concept	Sub-Concept
September	Introduction to Computer System	Evolution of Computing Devices
		• Components of a Computer System I, their interconnections
		Input/output devices
		Computer Memory:
		Units of memory
		Types of memory – primary and secondary
		Data deletion, its recovery and related security
		concerns.
		Software: purpose and types
	First Term Examin	ation from 18.09.2025 to 30.09.2025
October	Database concepts	• Introduction to database concepts and its need
	Anu SOC Commands	Database Management System
	SQL Communus	Relational data model
		Concept of domain
		> Tuple
		Relation
		> Candidate Key
		Primary Key
		Alternate Key
		• Advantages of using SQL
		Data Definition Language
		Data Query Language
		Data Manipulation Language
		• Introduction to MySQL
		• Data Types
		Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER
November	SQL Commands And Emerging Trends	• Data Query: SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL
		• Data Manipulation: INSERT, DELETE, UPDATE
		Artificial Intelligence
		Machine Learning
		Natural Language Processing
		• Immersive experience(AR, VR)
		Robotics
		• Big data <i>L</i> its characteristics
		• Internet of Things(IoT)
		• Sensors
		• Smart cities

Month	Concept	Sub-Concept
November	SQL Commands And Emerging Trends	 Cloud Computing Cloud Services (SaaS, IaaS, PaaS) Grid Computing Block Chain Technology
December		Revision
	Pre-Annual Exa	mination from 01.12.2025 to 13.12.2025
January		Revision
February	Final Term Examination From 11.02.2026 to 28.02.2026	

HINDUSTANI MUSIC (Vocal)

Month		Sub-Concept	
June	Theory	 Naad, Shruti, Swar, Saptak, Thaat, Laya, Tala description of Raga, Life Sketch Miya Taansen. 	
	Practicals	• Raag, Bihaag with aalap and Taan and 1 Vilabit Khyaal.	
July	Theory	History of Dhrupad, Khyaal and Tarana, Jaati, Raag, Swarmalika, Lakshangeet, Margi and Deshi Sangeet.	
	Practicals	• Revision of Raag Bihaag, Raag Bhimpalasi with aalap and Taan.	
-		Unit Test -I from 28.07.2025 to 02.08.2025	
August	Theory	• Life sketch of Pt. V. N. Bhatkhande, Taal Notation (Thah,	
		Dugun,Chaugun),Writing in notation of composition of Raga.	
	Practicals	 Raag Bhairavi with aalap and Taan. (Dadra Tal, Kehrawa, Teentall, Sool Tall, Ek Tal, Chau Tal. 	
September	Theory	 Nibaddha and Anibaddha Gaan, Brief Study of gharana, Laya, Taal. 	
	Practicals	• Raag, Bhairavi Revision with aalap and Taan.	
	First	Term Examination from 18.09.2025 to 30.09.2025	
October	Theory	• Knowledge and structure of Taanpura life sketch Pt. V. D.	
		Paluskar, Recognition of Ragas from phrases of swaras.	
	Practicals	One folk song, One Dhrupad, One Devotional Song.	
November	Theory	Brief Study Brihaddeshi of Natyashastra, Writing in Notation of	
		composition of Raga.	
	Practicals	Revision of Full Course, National Anthem Practice	
December	Practicals	Revision of Full Course, National Anthem Practice, National Song	
	Pre-Annual Exam from 01.12.2025 to 13.12.2025		
January	Practicals	• Revision of Full Course, National Anthem Practice	
February		Final Term Examination from 11.02.2026 to 28.02.2026	

KATHAK (DANCE)

Month		Sub-Concept
	Theory	• A brief history of Indian Dance.
June		Ability to write notation of Teental and Jhaptaal
	Practicals	• Practice of basic standing position and various patterns of Tatkar with Than laya.
		• Dugun and Chougun.Thaat-1, Aamad-2, Vandana-1
	Theory	• Literary contents–Abhinay, Bhajans, Thumri, Dadra, Ghazals, Dhrupad,Kavitt.
July		• Acquaintance with the themes of Ramayana, Mahabharat in content of Kathak.
	Practicals	• Hastak-10, Chakkar in teentaal, Fast Aamad-2, Natwari Tukra
		Unit Test -1 from 28.07.2025 to 02.08.2025
	Theory	• Evolution of Kathak Dance in Pracheen Kal/Mandir Kal, Madhya Kal/Darbar Kal,
August		• Adhunik Kal covering British and post independent era till the present time
	Practicals	 Parhant of Teentaal and Jhaptaal, Tukra/Toda-4, Paran-4, Tihaayi-4
	Theory	Gatbhav-Kaliya Daman, Govardhan lila, Panghatlila, Draupadi, Cheerharan, Makhan Chori , Marich Vadh, Basmasur Vadh, Madan dahan etc.
September	Practicals	• Gatnikas-3, Gat Bhava-1
	First Term Examination from 18.09.2025 to 30.09.2025	
October	Theory	• Rhythmic Musical composition like Tarana Tirvat, Chaturang etc. Rang Pravesh/Invocation, Composition (Bandish) from traditional technical dance part of kathak
	Practicals	Ladi/laya Baant, Parhant of tukda/toda with hast kriya.
November	Theory	• Distinctive aspects of kathak using of Ghunghrus, Chakkars, Upaj, Costume etc. Acquaintance with the themes of Bhagvata Puran and Gita Govind
	Practicals	Revision of full course
	Theory	• Definition and short explanation: Nritta, Nritya, Natya, Tandava, Lashya, Ang, Upanga, Pratyanga.
December	Practicals	Revision of full course
	Pre-Annual Exam from 01.12.2025 to 13.12.2025	
January	Revision	
February	Fin	al Term Examination from 11.02.2026 to 28.02.2026

PHYSICAL EDUCATION

Rationales:

The following category students are permitted to opt for the Physical education in class XII

- 1. Those granted permission to join the course should be medically fit to follow the physical Education curriculum, theory and practical prescribed by the board.
- 2. Those who have represented the school, inter school sports and games competition in any game.
- 3. The student must undergo the prescribed physical education exam and secure a minimum 33 % marks in Theory and practical separately in class XI.
- the unit of a class in physical education and health education should not exceed 40 students.
 Instructional hours and direction of the period should be strictly as per due norms of the board.
 The students must optional a sports as a specialization which is prescribed by due board.
 Students must be choose their sports specialization as regular sports activities.

Month	Concept	Sub-concept
April	Unit-1 Changing Trends and Careers in Physical Education	 Concept, Aims & Objectives of Physical Education Development of Physical Education in India – Post Independence Changing Trends in Sports- playing surface, wearable gear and sports equipment, technological advancements Career options in Physical Education
		• Khelo-India Program and Fit – India Program
June	Unit-5 Physical Fitness, Wellness and Lifestyle	Meaning & importance of Wellness, Health, and Physical Fitness.
		• Components/Dimensions of Wellness, Health, and Physical Fitness
		• Traditional Sports <i>LRegional Games</i> for promoting wellness
		• Leadership through Physical Activity and Sports
		• Introduction to First Aid – PRICE
	Unit -2 Olympism Value Education	Olympism – Concept and Olympics Values (Excellence, Friendship & Respect)
		 Olympic Value Education – Joy of Effort, Fair Play, Respect for Others, Pursuit of Excellence, Balance Among Body, Will & Mind
		Ancient and Modern Olympics
		• Olympics - Symbols, Motto, Flag, Oath, and Anthem
		• Olympic Movement Structure - IOC, NOC, IFS, Other members

Month	Concept	Sub-concept
July	Unit-7 fundamentals of anatomy, physiology in sports	• Definition and importance of Anatomy and Physiology in Exercise and Sports.
		• Functions of Skeletal System, Classification of Bones, and Types of Joints.
		• Properties and Functions of Muscles.
		• Structure and Functions of Circulatory System and Heart.
		• Structure and Functions of Respiratory System
	Unit Test -I fr	om 28.07.2025 to 02.08.2025
July	Unit – 3 Yoga	Meaning and importance of Yoga
		Introduction to Astanga Yoga
		• Yogic Kriyas (Shat Karma)
		• Pranayama and its types.
		Active Lifestyle and stress management through Yog
August	Unit-8 fundamentals of Kinesiology and biomechanics in sports	• Definition and Importance of Kinesiology and Biomechanics in Sports.
		Principles of Biomechanics
		Kinetics and Kinematics in Sports
		• Types of Body Movements - Flexion, Extension, Abduction, Adduction, Rotation, Circumduction, Supination I Pronation
		• Axis and Planes –Concept and its application in body movements
	Unit – 4 Physical Education and Sports for	Concept of Disability and Disorder
	CWSN	• Types of Disability, its causes & nature (Intellectual disability, Physical disability).
		Disability Etiquette
		• Aim and objectives of Adaptive Physical Education.
		• Role of various professionals for children with special needs (Counselor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist, and Special Educator)
September	Unit-9 Psychology and Sports	• Definition & Importance of Psychology in Physical Education & Sports;
		• Developmental Characteristics at Different Stages of Development;
		• Adolescent Problems L their Management;
		Team Cohesion and Sports;
		• Introduction to Psychological Attributes: Attention, Resilience, Mental Toughness
	First Term Examinat	tion from 18.09.2025 to 30.09.2025

Month	Concept	Sub-concept
October	Unit -10 Training and Doping in Sports	Concept and Principles of Sports Training
		• Training Load: Over Load, Adaptation, and Recovery
		• Warming-up & Limbering Down –Types, Method LImportance
		• Concept of Skill, Technique, Tactics & Strategies
		• Concept of Doping And its disadvantages
	Unit – 6 Test, Measurement and	• Define Test, Measurements and Evaluation.
	Evaluation	• Importance of Test, Measurements and Evaluation in Sports.
		• Calculation of BMI, Waist – Hip Ratio, Skin fold measurement (3-site)
		• Somato Types (Endomorphy, Mesomorphy L
		Ectomorphy)
		Measurements of health-related fitness
November	Revision	
December	Pre-Annual Exam from 01.12. 2025 to 13.12.2025	
February	Final Term Examination from 11.02.2026 to 28.02.2026	

PAINTING

Month	Concept	Sub-Concept
April	Practicals	• Still life drawing 1,2,3 points perspective
June	Pre-Historic Rock Painting and art of Indus Valley	 Introduction Study and appreciation of pre-historic paintings - Wizards Dance Location - Bhimbethaka,HarappaLmohenjo- daroRopar,Lothal,Rangpur,Alamgipur,KaliBangan,Banawali and Dholavira Study and appreciation of sculptures and terracottas Dancing girl,MaleTorso,Mother Goddess
	Practicals	 Points, Line, Shape, Form, Color, Texture, value and Space Elements of Arts, still life in pencil shading.
July	Pre-Historic Rock Painting and art of Indus Valley	• Study and appreciation of seal-bull, painted earthen wares.
	Buddhist,Jain and Hindu	 General Introduction to art during Mauryan, Shunga, kushana, Gupta period
	Art	Study and appreciation of Sculptures
	Practicals	 Nature drawings, Pencil Shading, Perspective, Pencil Color, Landscape, Sketching, StillLife (3 object + drapery), in pencil shading, non symmetrical geometric design.
	Unit Test	-I from 28.07.2025 to 02.08.2025
August	Buddhist,Jain and Hindu Art	 Study and appreciation of Sculpture: lion capital from sarnath, chauri bearer from Didarganj, seated Buddha from katramound, jainThirthankara. Introduction to Ajanta Location(all caves study) Chaitya and Vihara Painting and sculpture Subject matter and technique
	Practicals	 Still Life, Ratio Proportion, Water Color, Overlapping design (nature)
September	Temple Sculpture,Bronzes and Artistic Aspects of Indo-Islamic Architecture	 Artistic aspects of Indian Temple Sculptures Introduction to Temple Sculpture Study and appreciation of Temple Sculpture-decent of Ganga, Trimurti ,laxmi narayan ,cymbal player, sun temple, mother and child,
	Practicals	Principles of composition, Canvas Painting Poster Color, Pen Work, ,Composition,Still Life, Overlapping design and Collage Painting
	rirst term Exan	unuum jiom 18.09.2025 to 50.09.2025

Month	Concept	Sub-Concept
October	Temple Sculpture,Bronzes and Artistic Aspects of Indo-Islamic Architecture	 Bronze: Natraj (Chola Period) Artistic aspects of the Indo-Islamic Architectures Study and appreciation of the indo Islamic architecture Qutubminar, Golgumbad of Bijapur
	Practicals	• Still Life, Canvas Painting, Design
November	Revision	
December	Revision Pre-Annual Exam from 01.12. 2025 to 13.12.2025	
January	Revision	
February	Final Term Examination from 11.02.2026 to 28.02.2026	

PSYCHOLOGY

<u>Rationale</u>

Psychology is introduced as an elective subject at the higher secondary stage of school education. As a discipline, psychology specializes in the study of experiences, behaviors and mental processes of human beings within a socio-cultural historical context. This course purports to introduce the learners to the basic ideas, principles, and methods in Psychology. The emphasis is to create interest and exposure needed by learners to develop their own knowledge base and understanding.

The course deals with psychological knowledge and practices which are contextually rooted. It emphasizes the complexity of behavioral processes and discourages simplistic cause-effect thinking. This is pursued by encouraging critical reasoning, allowing students to appreciate the role of cultural factors in behavior and illustrating how biology and experiences shape behavior.

Following the CBSE curriculum, it will be ensured, that the teaching - learning processes should involve students in evolving their own understanding, therefore, teaching of Psychology will be based on the use of case studies, narratives, experiential exercises, analysis of common everyday experiences, etc.

Objectives:

- To develop appreciation about human mind and behavior in the context of learners' immediate society and environment.
- To develop in learners an appreciation of the nature of psychological knowledge and its application to various aspects of life.
- To enable learners to become perceptive, socially aware and self-reflective.
- To facilitate students' quest for personal growth and effectiveness, and to enable them to become responsive and responsible citizens.

MONTH	UNIT	TOPICS
June	UNIT - I	1. Introduction
	What is Psychology?	2. What is Psychology?
		 Psychology as a Discipline
		 Psychology as a Natural Science
		 Psychology as a Social Science
		3. Understanding Mind and Behaviour
		4. Popular Notions about the Discipline of Psychology
		5. Evolution of Psychology
		6. Development of Psychology in India 7. Brenchoo of Drychology
		7. Branches of Dsychology 8. Psychology and Other Disciplines
		9. Psychology and Oner Disciplines 9. Psychology in Everyday Life
านใง	UNIT - II	1. Introduction
5	Methods of Enquiry in Psychology	2. Goals of Psychological Enquiry
		• Steps in Conductina Scientific Research
		Alternative Paradiams of Research
		3. Nature of Psychological Data
		4. Some Important Methods in Psychology
		Observational Method
		• Experimental Method
		Correlational Research
		• Survey Research
		<i>Psychological Testing</i>
		• Case Study
		5. Analysis of Data
		Quantitative Method
		Qualitative Method
		6. Limitations of Psychological Enquiry
		7. Ethical Issues
	Unit Test -I from	28.07.2025 to 02.08.2025
August	UNIT - IV	1. Introduction
	Human Development	2. Meaning of Development
		• Life-Span Perspective on Development
		3. Factors Influencing Development
		4. Concert of Developmental Stages
		Prenatal Stage
		• Infancy
		 Injana y Childhood
		- Challen ago of I dologoogo
		• (nauenges of Auolescence
		 Adulthood and Old Age

September	UNIT - V	1. Introduction
	Sensory, Attentional and Perceptual	2. Knowing the world
	Processes	3. Nature and varieties of Stimulus
		4. The Perceiver
		5. Principles of Perceptual Organisation
		6. Perception of Space, Depth and Distance
		• Monocular Cues and Binocular Cues
		7.Perceptual Constancies
		8. Illusions
		9.Socio-Cultural Influences on Perception
	First Term Examination	from 18.09.2025 to 30.09.2025
October	UNIT - VI	1. Introduction
	Learning	2. Nature of Learning
		3. Paradigms of Learning
		4. Classical Conditioning
		• Determinants of Classical Conditioning
		5. Operant/Instrumental Conditioning
		• Determinants of Operant Conditioning
		• Key Learning Processes
		6. Observational Learning
		7. Cognitive Learning
		8. Verbal Learning
		9. Skill Learning
		10.Factors Facilitating Learning
		11.Learning Disabilities
November	UNIT - VII	1. Introduction
	Human Memory	2. Nature of memory
		3. Information Processing Approach : The Stage Model
		4. Memory Systems: Sensory, Short-term and Long-term
		Memories
		5. Levels of Processing
		6. Types of Long-term Memory
		• Declarative and Procedural; Episodic and Semantic
		7. Nature and Causes of Forgetting
		• Forgetting due to Trace Decay Interference
		and Rotrioyal Failuro
		8 Enhancina Memory
		Anomonics using Images and Organisation
		• Minemonius using images and Organisation

November	UNIT - VIII	1. Introduction	
	Thinking	2. Nature of Thinking	
		• Building Blocks of Thought	
		3. The Processes of Thinking	
		4. Problem Solving	
		5. Reasoning	
		6. Decision-making	
		7. Nature and Process of Creative Thinking	
		• Nature of Creative Thinking	
		• Process of Creative Thinking	
		8. Developing Creative Thinking	
		9. Thought and Language	
		9. Development of Language and Language Use	
December	UNIT - IX	1. Introduction	
	Motivation and Emotion	2. Nature of Motivation	
		3. Types of Motives : Psychosocial Motives	
		4. Nature of Emotions	
		5. Physiological Baes of Emtions	
		6. Congnitive Bases of Emotions	
		7. Managing Negative Emotions	
		8. Enhancing Positive Emotions	
	Pre-Annual Exam from 01.12.2025 to 13.12.2025		
January Revision		Revision	
	Final Term Examination from 11.02.2026 to 28.02.2026		
Practical - 30 marks			

(projects, experiments, small studies, etc.) The students shall be required to undertake one project and conduct two experiments. The project woulsd involve the use of different methods of enquiry like observation, survey, interview, questionnaire, small studies related to the topics covered in the course (e.g. Humandevelopment, learning, memory, motivation, perception, attention and thinking). Experiments could focus on cause-and-effect relationship.

Practical examination

• practical (experiments) file 05 marks

• project file 05 marks

• viva voce (project and experiments) 05 marks

• one experiment (05 marks for conduct of experiment and 10 marks for reporting) 15 marks

LEGAL STUDIES

<u>Rationale</u>

The Latin maxim ignorantia juris neminem excusat, in plain, which reads as 'ignorance of law is not an excuse'. This is one of the age-old principles followed under Roman Law and even in our own Common Law. If every person of discretion is to know what law is, an effort to teach law outside the remit of a professional law sfchool may have significant social benefits.

Law is a subject that has been traditionally taught in Universities for almost eight centuries. Learning law outside the settings of a professional law school has a number of perceived benefits. Some familiarity with the law enhances one's understanding of public affairs and an awareness of one's entitlements and duties as a citizen. It may also be helpful in eliminating some of the mistaken notions about law and some of the inveterate prejudices about law, lawyers, and the legal system as such. Another advantage is that an understanding of the law can undoubtedly encourage talented students to pursue a career in law – an objective that is laudable in its own right.

The pitfalls of learning law outside the settings of a professional school are rooted in two key assumptions:

1. law is too vast and complicated to be taught in a non-professional setting;

2. the lack of professional trainers and experienced teachers could lead to incorrect appreciation and understanding of law. If an understanding of law is misinformed or illformed as some academicians think, it may require greater efforts to unlearn whatever was learnt earlier. Both these criticisms have attracted detailed scrutiny, but at least a few countries have introduced law at the High School level.

The experience of countries that have introduced law has been by and large optimistic. The Central Board of Secondary Education is introducing Legal Studies at the Class XI level. The proposal is to introduce one module in Class XI and a second module in Class XII.

Objectives :

- To provide a background of the evolution of the Indian legal system in a short and concise form.
- To focus on the applicability of justice, equity and good conscience and more importantly the development of Common Law system in India.
- To provide exposure on various systems of law such as Common Law, Civil Law etc.
- To develop an understanding of the essential features of the Indian Constitution, including the role and importance of Fundamental Rights, Separation of Powers, Structure and operation of Courts, concept of precedent in judicial functioning, the of legislation, basic principles of statutory interpretation, etc.
- To deal with principles of practical utility such as the concept of Rule of Law, principles of justice, differences between criminal and civil cases, the concept of crime and the fundamental theories of punishment, rights available to the accused at various stages of the criminal investigative process, or the key components of Human Rights, etc.
- To understand the fundamental concepts and subject matter of property, contract and tort law.
- To understand the rudimentary aspects of contract law such as formation of contract, terms and conditions of contracts, discharge of contract, etc.
- To enable students to form an understanding of rights and duties and various categories of liability principles which form the bedrock for an understanding of Law.
| Month | Concept | Sub-Concept |
|----------------|--|---|
| Month
April | Concept UNIT 1- Introduction to Political Institutions 1) Concept of State 2) Forms and Organs of Government | Sub-Concept• What is a State?• The concept of State and Article 12 of the Indian
Constitution• What is a Government?• Emergence of the State from Society• Definition of State• Theories on the Origin of State• Elemetns of State• Role of State• Introduction to the Organs of Government• Monarchy |
| | | Aristocracy Dictatorship Democracy Main organs of Government and its functions General Functions of Legislature as Organ of
Government General Functions of Executive as Organ of
Government General Functions of Judiciary as Organ of
the Government |
| | 3) Separation of Powers | Concept of Separation of Powers Historical Background and Evolution of
Montesquieu's Doctrine of Separation of Powers Montesquieu's Doctrine of Separation of
Powers Basic Features of the Doctrine Separation of
Powers as Enunciated by Montesquieu Checks and Balances of Power Impact of the Doctrine Evaluation of The Doctrine of Separation of
Powers Key Benefits and Advantages of The
Doctrine of Separation of Powers Defects of the Doctrine Separation of Powers In Practice Separation of Powers in Britain Separation of Powers in the United States of |
| June | UNIT 2-
Basic Features of the Constitution of
India
1) Salient Features of the
Constitution of India | Separation of Powers in India Meaning of the term Constitution Definition of the term Constitution Historical Perspective of the Constitution of
India |

Month	Concept	Sub-Concept
June		 Salient Features of The Constitution of India A Modern Constitution Lengthiest written Constitution Preamble to the Constitution
		• Fundamental Rights; Directive Principles of State Policy; Fundamental Duties
		• Constitutional Provision for Amendment of the Constitution of India
		• Adult Suffrage
		Single Citizenship
		Independent Judiciary
		Emergency Provisions
		• Federal in form Unitary in character
		• Division of Power- Centre- State Relations
		• Schedules to the Constitution
July	Administrative Law	Background
		 Administrative Law and Constitutional Law; Key Differences
		• Reasons for Growth, Development and Study of Administrative Law
		• Types of Adminsitrative Actions
		• Fundamental Principle of Administrative Law: Rule of Law
		• Droit System
	UNIT 3- Jurisprudence, Nature and Sources of Caus	Introduction
	1) Jurisprudence, Nature and Meaning	Historical Prespective
	of Law	Schools of Law
		Function and Purpose of Law
	2) Classification of Laws	Classification of Law based on Subject matter
		Classification of Law based on Scope of Law
		Classification of Law based on Iurisdiction
	Project work	Case Study
	Unit Test -I f	From 28.07.2025 to 02.08.2025
August	3) Sources of Law	• Where does law come from?
		• Custom as a source of Law
		• Importance of Custom as a source of Law in
		 Initia Indicial Precedent as a Source of Cany
		 Legislation as a Source of Law
	4) Law Reform	Need for Law Reform
		Law Reforms in India
		Recent Law Reforms in Independent India

Month	Concept	Sub-Concept	
August	5) Cyber Laws, Safety and Security in India	 Introduction Why do we need Cyber Laws What is Cyber Law? What is Cyber safety and Security? What is cyber Crime? Categories of Cyber Crime Cyber law in India Scope or extent of the Information Technology Act, 2000 (IT Act) What was Section 66 A IT Act, 2000? 	
	Project Work	Case Study	
September	UNIT 4- Judiciary : Constitutional, Civil and Criminal Courts and Processes	 Introduction: Establishment of the Supreme Court and High Courts Constitution, Roles And Impartiality Independence and Impartiality of the Supreme Court Structure and Hierarchy of the Courts in India The civil process and functioning of Civil courts The Civil Court Structure Common legal terminology Types of jurisdiction Res subjudice and Res judicata in code of civil procedure 1908 	
	First Term Examination from 18.09.2025 to 30.09.2025		
October	UNIT 4- Judiciary : Constitutional, Civil and Criminal Courts and Processes (Contd)	 Structure And Functioning Of Criminal Courts In India Types of offences Criminal investigation and First Information Report (FIR) The criminal process- Investigation and prosecution Doctrine of autrefois acquit and autrefois convict Function and Role of Police Other courts in India Family Courts Administrative Tribunals 	
	UNIT 5 - Family Justice System 1) Institutional Framework; Marriage and Divorce	 Nature of Family law in India Human rights and gender perspective Institutional framework-family Courts Role of women in the creation of family courts Role of lawyers and counselors in Family courts Role of counselors and gender issues Marriage and Divorce 	

Month	Concept	Sub-Concept
October	2) Child Rights	Child Rights
		• Right to Education
		• Right to Health
		• Right to Shelter
		Child Labour
		• Sexual Abuse
		Juvenile Justice
	Project Work	Case Study
November	UNIT 5 - Family Justice System	Adoption
	(contd) 3) Adoption	• Minor custody and Guardianship
	4) Property, Succession and Inheritance	• Concept of Property: Joint Family Property and Separate Property
		Inheritance and Succession
		Intestate Succession
		Rules relating to Intestate Succession
		Testamentary Succession
	5) Prevention of Violence against	• What is Domestic abuse / violence?
	Women	• International legal framework
		• Laws in India on prevention of violence against
		women
	Project work	Case Study
December	Revision and Project work Pre-Annual Examination from 01.12.2025 to 13.12.2025	
a		
January	Kevision	
February	Final Term Examination from 11.02.2026 to 28.02.2026	

TAXATION

<u>SALIENT FEATURES:</u>

- Focus on conceptual knowledge on current tax laws
- Learning through practical exposure
- Building confidence to start work life by gaining required knowledge in Taxation domain
- Providing scope to pursue Taxation as specialization in higher studies after senior secondary Tapping ample placement opportunities in Government and private sector

OBJECTIVES OF THE COURSE:

Following are the main objectives of this course:

- To acquaint the learners with basic principles underlying the provisions of tax laws
- To develop a broad understanding of the tax laws and accepted tax practices
- To introduce practical aspects of income tax filing of return
- To introduce aspects of tax planning as an important managerial decision making process
- To expose learners to real life situations involving taxation and equip them for taking tax- sensitive decisions

Month	Concept	Sub-Concept
April June	Unit–1Introduction to Income Tax and important definitionsUnit–2Exempted Incomes and Residential statusEmployability Skills: Unit – V Green SkillsUnit–2Exempted Incomes and Residential status	 Income Tax –meaning, basis of charge of Income Tax Important definitions Agricultural income Sectors, policies, stake holders in Green Economy Residential status
	(Cont) Unit–3 Heads of Income (Other Sources)	 Introduction to other sources of income Calculation of income from other sources
	Employability Skills: Unit – IV Entrepreneurship Skills	 Introduction, values, attitude of an Entrepreneur Understanding Market Business Planning
July	Unit–3 Heads of Income (Capital Gains)	 Meaning of Capital Gains. Types of capital gains.
	Employability Skills: Unit – III Information and Communication Skills	• Introduction, Basic interface Libre Office.
d	Onit flest -1 from 28.07.2	025 to 02.08.2025
August	<i>Ont–3</i> Heads of Income (Business and Profession) Employability Skills: Unit – II Self Management Skills	 Concept of Business and Profession. Computation of net income in Business and profession Strength and weakness, Grooming, Personal hygiene.
September	Unit–3 Heads of Income (House Property) Employability Skills: Unit – I Communication Skills	 Meaning, computation of net annual value. Deductions and other provisions in income from House Property. Introduction, verbal and non verbal communication . Writing skills, Greetings, describing habits and routines.
	First Term Examination from 18.0	09.2025 to 30.09.2025
October	Unit–3 Heads of Income (Salary)	 Meaning of Salary Allowances Perquisites Computation of income from Salary.

Month	Concept	Sub-Concept
November	Unit–3 Heads of Income (Salary) Project Work	Computation of income from Salary.Guidelines and Discussion.
December	Revision	
	Pre-Annual Exam	nination From 01.12.2025 to 13.12.2025
January	Revision	
February	Final Term Examination from 11.02.2026 to 28.02.2026	

HINDUSTANI PERCUSSION MUSIC-11

Month	Concept	Sub-Concept
April	Introduction to Tala and Laya	• Basic Bols and Patterns
	• Types of Laya: Vilambit, Madhya, Drut	• Simple compositions in Teentala
June	• Study of Talas: Teentala, Jhaptala	• Performance of Kayada and Tukra in Teentala
July	Concept of Theka and Layakari	Rela and Tukra in Jhaptala
	• Definitions: Sam, Tali, Khali	• Dugun and Chaugun practice
	Unit Test -I from 28.07.2	2025 to 02.08.2025
August	• Biographies: Pt. Kanthe Maharaj, Pt. Samta	Recitation of Thekas
	Prasad	Accompaniment techniques
September	 Notation writing of compositions in Teentala and Jhaptala 	• Practical demonstration and solo preparation
	First Term Examination from 1	8.09.2025 to 30.09.2025
October	Revision of all theory topics	• Internal assessment preparation and final performance practice
November	Full syllabus revision	Full practical revision
	• Practice theory papers	Mock practical tests and solo performances
December	Pre-Annual Exam from 01.12. 2025 to 13.12.2025	
January	Revision	
February	Revision	
March	Final Term Examination from 11.02.2026 to 28.02.2026	