

SYLLABUS FOR SEMESTER 2 (CLASS 11)

2024-25

Subject	Class XI (Semester-2)
English	<p><u>READING SKILL</u></p> <ol style="list-style-type: none">1. Unseen Comprehension2. Notemaking <p><u>WRITING SKILL & GRAMMAR</u></p> <ol style="list-style-type: none">1. Poster2. Letter to the editor3. Speech4. Functional Grammar5. Debate Writing6. Classified Advertisement <p><u>LITERATURE</u></p> <ol style="list-style-type: none">1. The Address2. Discovering Tut3. The Adventure4. Voice of the Rain5. Mother's Day6. The Tale of Melon City7. Birth8. Childhood9. Silk Road10. Father to Son.
Mathematics	<ol style="list-style-type: none">1. Relations and Functions2. Trigonometric Functions3. Linear Inequalities4. Permutations and Combinations5. Binomial Theorem

	<ol style="list-style-type: none"> 6. Sequence and Series 7. Straight Lines 8. Conic Section 9. Three Dimensional Geometry 10. Limits and Derivatives (Product Rule ,Quotient Rule, Chain rule and implicit form) 11. Statistics 12. Probability
Applied Mathematics	<ol style="list-style-type: none"> 1. Function, Limits , continuity and differentiation. 2. Logarithm and it's application . 3. Descriptive Statistics. 4. Mensuration of 2D and 3 D. 5. Annuity 6. GST 7. Probability 8. Coordinate Geometry of two Dimensions.
Physics	<ol style="list-style-type: none"> 1) Units and Dimensions 2) Motion in 1D 3) Motion in 2D 4) Laws of Motion 5) Work, Energy, Power 6) Rotational Motion 7) Gravitation 8) Mechanical properties of Solids 9) Mechanical Properties of Fluids 10) Thermal Properties of Matter 11) Thermodynamics 12) Kinetic Theory of Gases 13) Oscillations 14) Waves
Chemistry	<ul style="list-style-type: none"> • Basic concepts of Chemistry • Atomic structure

	<ul style="list-style-type: none"> • Periodic table • Chemical bonding • Basic Principles in Organic Chemistry • Hydrocarbons • Redox reaction • Equilibrium (chemical and ionic) • Thermodynamics
Biology	<ol style="list-style-type: none"> 1. Biological classification 2. Plant Kingdom 3. Animal Kingdom 4. Morphology of Flowering Plants 5. Anatomy of flowering plants 6. Cell-Unit of life 7. Biomolecules 8. Cell cycle and Cell Division 9. Photosynthesis in higher plants 10. Respiration in plants 11. Plant growth and development 12. Breathing and exchange of gases 13. Body fluids and circulation 14. Excretory products and their elimination 15. Locomotion and Movement 16. Neural Control and coordination 17. Chemical coordination and integration
Computer Science	<p>Unit 1: Computer Systems and Organisation</p> <p>Basic computer organisation, Types of software, Operating System(OS), Boolean logic, Number System and Encoding Schemes.</p> <p>Unit 2: Computational Thinking and Programming - I</p> <p>Introduction to Problem-solving, Familiarization with the basics of Python programming, Knowledge of data types, Operators, Expressions, statement, type conversion, and</p>

	<p>input/output, Errors, Flow of Control, Conditional statements, Iterative Statement, Strings, Lists, Tuples, Dictionary and Introduction to Python modules.</p> <p>Unit 3: Society, Law and Ethics - Digital Footprints, Digital Society and Netizen, Data Protection, Cyber Crime, Cyber safety, Malware, E-waste management, Information Technology Act (IT Act) and Technology and society.</p>
Economics	<ul style="list-style-type: none"> • Basic knowledge of Statistics and graphical representation • Central Tendency • Correlation • Index Number • Introduction to Microeconomics and Central Problems • Consumer’s Behaviour • Producer’s Behaviour • Forms of Market • Price determination
Accountancy	<ol style="list-style-type: none"> 1. Meaning and Objectives of Accounting; 2. Basic Accounting Terms; 3. Accounting Principles; 4. Accounting Equation; 5. Double Entry System; 6. Journal; 7. Ledger; 8. Trial Balance & Various types of Errors; 9. Cash Book & Petty Cash Book; 10. Subsidiary Books; 11. Bank Reconciliation Statement; 12. Rectification of Errors;

	<p>13. Depreciation;</p> <p>14. Provisions & Reserves;</p> <p>15. Cash Basis & Accrual Basis of Accounting;</p> <p>16. Final Accounts with and without Adjustments;</p> <p>17. Practical Application of GST including Set off.</p> <p>18. Capital & Revenue.</p> <p>19. Accounts from Incomplete Records</p>
Business Studies	<p>1) Nature and Purpose of Business</p> <p>2) Forms of Business Organisation (Including Formation of a joint stock Company)</p> <p>3) Public, Private and Global Enterprise</p> <p>4) Business services</p> <p>5) Emerging modes of Business</p> <p>6) Social Responsibility</p> <p>7) Sources of Business finance</p> <p>8) Small Business and Enterprises</p> <p>9) Internal Trade</p> <p>10) International Trade</p>
Entrepreneurship Development	<p>Unit-1 : Entrepreneurship: Concept and Functions</p> <p>Unit-2 : An Entrepreneur</p> <p>Unit-3 : Entrepreneurial Journey</p> <p>Unit-4 : Entrepreneurship As Innovation and Problem Solving</p> <p>Unit-5 : Concept of Market</p> <p>Unit-6 : Business Finance and Arithmetic</p> <p>Unit-7 : Resource Mobilization</p>
Psychology	<p>1). What is Psychology?</p> <p>2). Methods of Enquiry in Psychology</p> <p>3). Human Development</p> <p>4). Sensory, Attentional and Perceptual processes</p> <p>5). Learning</p>

	<p>6). Human Memory</p> <p>7). Thinking</p> <p>8). Motivation and Emotion</p>
Commercial Art	<p>Theory: Indus valley art , Principal art, Element of art, Gupta, Sunga, Kushana , Indian bronze sculpture, Indian temple art , Indo Islamic art,</p> <p>Practical - Illustration, poster & portfolio assistant</p>
Legal Studies	<ol style="list-style-type: none"> 1. Concept of state 2. Forms and organs of Government 3. Separation of powers 4. Salient features of constitution of India 5. Administrative law 6. Jurisprudence 7. Classification of laws 8. Sources of law 9. Law reforms 10. Cyber laws 11. Judiciary 12. Marriage and divorce 13. Child rights 14. Adoption 15. Property Succession and Inheritance 16. Prevention of violence against women
Sociology	<ol style="list-style-type: none"> 1. Sociology and Society 2. Terms, Concepts and Their Use in Sociology 3. Understanding Social Institutions 4. Culture and Socialisation 5. Doing Sociology 6. Social Structure, Stratification and Social Processes in Society 7. Social Change and Social Order in Rural and Urban Society 8. Environment and Society
Political Science	<ol style="list-style-type: none"> 1. Constitution- Why and How

	<ul style="list-style-type: none"> 2. Rights in the Indian Constitution 3. Election and Representation 4. Executive 5. Legislature 6. Political Theory-An Introduction 7. Freedom 8. Equality 9. Social Justice 10. Rights 11. Judiciary 12. Federalism 13. Local Government 14. Constitution as a Living Document 15. The Philosophy of the Constitution 16. Citizenship 17. Nationalism 18. Secularism
History	<ul style="list-style-type: none"> 1. Writing and the city life 2. An Empire across three continents 3. Nomadic empires 4. Three Orders. 5. Changing cultural traditions 6. Paths to Modernization
Geography	<ul style="list-style-type: none"> Book 1 Chapter 1 Geography as a Discipline. Chapter 2 The Origin and Evolution of the Earth. Chapter 3 Interior of the Earth. Chapter 4 Distribution of Seas and Oceans Chapter 5 Geomorphic Processes Chapter 6 Landforms and their Evolution.

	<p>Chapter 7 Composition and Structure of the Atmosphere.</p> <p>Chapter 8 Solar Radiation, Heat Balance and Temperature.</p> <p>Chapter 9 Atmospheric Circulation and Weather System</p> <p>Chapter 10 Water in the Atmosphere</p> <p>Chapter 12 Water (Oceans)</p> <p>Chapter 13 Movements of Ocean Water.</p> <p>Chapter 14 Biodiversity and Conservation.</p> <p>Book 2</p> <p>Chapter 1 India - Location</p> <p>Chapter 2 Structure and Physiography</p> <p>Chapter 3 Drainage System</p> <p>Chapter 4 Climate</p> <p>Chapter 5 Natural Vegetation.</p> <p>Practical</p> <p>Chapter 1 Introduction to Maps</p> <p>Chapter 2 Map Scale</p> <p>Chapter 3</p> <p>Latitude, Longitude and Time.</p> <p>Chapter 4</p> <p>Map Projections</p> <p>Chapter 5</p> <p>Topographical Maps</p> <p>Chapter 6</p> <p>Introduction to Remote Sensing</p> <p>And Weather Instruments, maps and charts.</p>
Physical Education	<ol style="list-style-type: none"> 1. Changing trends and careers in physical education 2. Olympic value Movement 3. Yoga 4. Physical education and children with special needs. 5. Physical fitness and wellness 6. Test, Measurement and Evaluation

	<p>7. Anatomy and physiology in sports.</p> <p>8. Biomechanics of sports</p> <p>9. Training and doping in sports</p> <p>10. Psychology and sports.</p>
<p>Financial Markets Management</p>	<p>Employability Skills</p> <p>Unit 1 : Communication Skills</p> <p>Unit 2 : Self-Management Skills</p> <p>Unit 3 : ICT Skills</p> <p>Unit 4 : Entrepreneurial Skills</p> <p>Unit 5: Green Skills</p> <p>Subject Specific Skills</p> <p>Unit 1: Markets and Financial Instruments</p> <p>Unit 2: Primary and Secondary Market</p> <p>Unit 3: Mutual Funds Products and Features</p> <p>Unit 4: ETFs, Debt and Liquid Funds</p> <p>Unit 5: Taxation and Regulations</p> <p>Unit 6 : Quantitative Evaluation of Mutual Fund Schemes</p>
<p>Web Application</p>	<p>PART A: EMPLOYABILITY SKILLS</p> <p>Unit 1: Communication Skills</p> <p>Unit 2: Self-Management Skills</p> <p>Unit 3: ICT Skills</p> <p>Unit 4: Entrepreneurial Skills</p> <p>Unit 5: Green Skills</p> <p>PART B: SUBJECT SPECIFIC SKILLS</p> <p>Chapter 1: Basics of Networking</p> <p>Chapter 2: Website Building Using HTML and CSS</p> <p>Chapter 3: Multimedia Design Using GIMP</p> <p>Chapter 4: JavaScript</p>
<p>Food, Nutrition and Dietetics</p>	<p>Employability skill- Communication,Self manager,ICT,Entrepreneur,Green skills</p>

	<p>1.Unit 1-Food Nutrition -Basic Concept</p> <p>2.Unit 2-Nutrition throughout life cycle</p> <p>3.Unit 3-Public health and Nutrition -Basic Concept</p> <p>Unit4-Public health and Nutrition- Disorders</p> <p>5.Unit 5-Public health and nutrition-Programmes and Policies</p> <p>6.Unit 6-Nutrition Education ,communication and behaviour change</p>
Mass Media Studies	<p>Unit 1 - Introduction to Mass Media</p> <p>Unit 2 - Evolution of media</p> <p>Unit 3 - Understanding media</p> <p>Unit 4 - Pre- production skills</p> <p>Movies: Makdee, Peepli Live & Taare Zameen Par</p> <p>Employability skills: Communication skills, IT skills, Entrepreneurship skills, Green skills & Self Management</p>
Fashion Studies	<p>Chapter 1(introduction of fashion)</p> <p>Chapter 2(introduction of fabrics,dyeing and printing).</p> <p>Chapter 3 (fundamentals and principles of design)</p> <p>Chapter 4(sewing machines)</p> <p>Full employablity book</p>