



Term 1 Syllabus
Class – XII
Session 2021-22

| Sl.No. | Subject | Syllabus |
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| 1. | Chemistry | 1. Some Basic Concepts of Chemistry 2. Structure of Atom 3. Classification of Elements and Periodicity in Properties 4. Chemical Bonding and Molecular Structure 5. Redox Reactions 6. Hydrogen Organic Chemistry: Some basic Principles and Techniques |
| 2. | Biology | Chapter 1 The Living World Chapter 2 Biological Classification Chapter 8 Cell – The Unit Of Life Chapter 9 Biomolecules (Carbohydrates Lipids Amino acid and Proteins Nucleic Acid) |
| 3. | Physics | Unit I: Physical World and Measurement Chapter–1: Physical World Chapter–2: Units and Measurements Unit II: Kinematics Chapter-3: Motion in a Straight Line Chapter–4: Motion in a Plane Unit III: Laws of Motion Chapter–5: Laws of Motion Unit IV: Work, Energy and Power Chapter–6: Work, Energy and Power Unit V: Motion of System of Particles and Rigid Body Chapter–7: System of Particles and Rotational Motion Unit VI: Gravitation Chapter–8: Gravitation |
| 4. | Maths | <ul style="list-style-type: none">• Sets• Relations and Functions• Complex Number• Sequence, Series, AP, GP• Straight Lines• Limits |

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| 5. | Applied Maths | <ul style="list-style-type: none"> • Numbers and Quantification [Binary Numbers, Indices, Logarithm, Antilogarithm and Application of Logarithm] • Numerical Applications [Average, Clock, Calender, Time Work Distance, Mensuration, Seating Arrangement] • SET • Relation and Function • Sequence, Series, AP, GP • Mathematical Reasoning • Logical Reasoning • Descriptive Statistics Skewness, kurtosis, Percentile and quartile rank, Correlation |
| 6. | Physical Education | <p>Unit III: Physical Fitness, Wellness & Lifestyle Meaning & Importance of Physical Fitness, Wellness & Lifestyle Components of physical fitness and Wellness Components of Health related fitness</p> <p>Unit V: Yoga</p> <ul style="list-style-type: none"> • Meaning & Importance of Yoga • Elements of Yoga • Introduction - Asanas, Pranayam, Meditation & Yogic Kriyas <ul style="list-style-type: none"> • Yoga for concentration & related Asanas (Sukhasana; Tadasana; Padmasana & Shashankasana, Naukasana, Vrikshasana (Tree pose), Garudasana (Eagle pose) • Relaxation Techniques for improving concentration – Yog-nidra <p>Unit VI: Physical Activity & Leadership Training</p> <ul style="list-style-type: none"> • Leadership Qualities & Role of a Leader • Creating leaders through Physical Education <ul style="list-style-type: none"> • Meaning, objectives & types of Adventure Sports (Rock Climbing, Tracking, River Rafting, Mountaineering, Surfing and Para Gliding) • Safety measures to prevent sports injuries <p>Unit VII: Test, Measurement & Evaluation</p> <ul style="list-style-type: none"> • Define Test, Measurement & Evaluation • Importance of Test, Measurement & Evaluation In Sports • Calculation of BMI & Waist - Hip Ratio • Somato Types (Endomorphy, Mesomorphy & Ectomorphy) • Measurement of health related fitness |
| 7. | Bio Technology | <ol style="list-style-type: none"> 1. UNIT I - Chapter 1- Biotechnology: An overview 2. UNIT II- Chapter 1- Biomolecules: Building Blocks Chapter 2- Macromolecules Structure & Function 3. UNIT III- Chapter 1- Concepts Of Genetics (Historical Perspective) |
| 8. | Business Studies | Chapter 1: Evolution and Fundamentals of Business |

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| | | <p>Chapter 2: Forms of Business Organizations</p> <p>Chapter 3: Public, Private and Global Enterprises</p> <p>Chapter 4: Business Services</p> <p>Chapter 5: Emerging Modes of Business</p> <p>Chapter 6: Social Responsibility of Business and Business Ethics</p> |
| 9. | History | <p>1. Theme 2 -Writing And City Life</p> <p>2. Theme 3 - An Empire Across Three Continents</p> <p>3. Theme 4 - Central Islamic lands</p> <p>4. Theme 6 -The Three Orders</p> |
| 10. | Sociology | <p>1. Chapter 1: Sociology and Society</p> <p>2. Chapter 2: Terms, Concepts and their use in Sociology</p> <p>3. Chapter 3: Understanding Social Institutions</p> <p>4. Chapter 4: The Culture and Socialisation</p> |
| 11. | IP | <p>1. Getting started with Python</p> <p>2. Python Fundamentals</p> <p>3. Data Handling</p> <p>4. Flow of control</p> |
| 12. | Economics | <p><u>Statistics for Economics</u></p> <p>Unit 1: Introduction What is Economics? Meaning, scope, functions and importance of statistics in Economics</p> <p>Unit 2: Collection, Organisation and Presentation of data Collection of data - sources of data - primary and secondary; how basic data is collected with concepts of Sampling; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organisation. Organisation of Data: Meaning and types of variables; Frequency Distribution. Presentation of Data: Tabular Presentation and Diagrammatic Presentation of Data: (i) Geometric forms (bar diagrams and pie diagrams), (ii) Frequency diagrams (histogram, polygon and Ogive) and (iii) Arithmetic line graphs (time series graph).</p> <p>Unit 3: Statistical Tools and Interpretation Measures of Central Tendency- Arithmetic mean, median and mode</p> <p><u>Introductory Microeconomics</u></p> <p>Unit 4: Introduction Meaning of microeconomics and macroeconomics; positive and normative economics What is an economy? Central problems of an economy: what, how and for whom to produce; opportunity cost.</p> <p>Unit 5: Consumer's Equilibrium and Demand Consumer's equilibrium -</p> |

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| | | <p>meaning of utility, marginal utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis. Indifference curve analysis of consumer's equilibrium-the consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map) and conditions of consumer's equilibrium.</p> <p>Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, movement along and shifts in the demand curve; price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand – percentage-change method</p> |
| 13. | Computer Science | <p>Unit I: Computer Systems and Organisation</p> <ul style="list-style-type: none"> ● Basic Computer Organisation ● Types of software ● Operating system ● Boolean logic ● Number system ● Encoding schemes <p>Unit II: Computational Thinking and Programming – 1</p> <ul style="list-style-type: none"> ● Introduction to problem solving ● Familiarization with the basics of Python programming ● Knowledge of data types ● Operators ● Expressions, statement, type conversion & input/output ● Errors ● Flow of control ● Conditional statements ● Iterative statements ● Strings |
| 14. | Entrepreneurship | <p>UNIT 1: Entrepreneurship Concepts & Functions</p> <p>UNIT 2: An Entrepreneur</p> <p>UNIT 3: Entrepreneurial Journey</p> <p>UNIT 4: Entrepreneurship as Innovation & Problem Solving</p> |
| 15. | English Core | <p>Section A</p> <p>Reading Comprehension:</p> <ul style="list-style-type: none"> • Unseen passage (factual, descriptive or literary/ discursive or persuasive) • Case Based Unseen (Factual) Passage <p>Section B</p> <p>Creative Writing Skills and Grammar: Short Writing Tasks</p> <ul style="list-style-type: none"> • Notice Writing • Long Writing Tasks • Business or Official Letters(Making enquiries, registering complaints, |

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| | | <p>asking for or giving information, placing orders and sending replies)</p> <ul style="list-style-type: none"> • Speech Grammar • Determiners • Tenses • Re-ordering of Sentences {MCQs on Gap filling/ Transformation of Sentences} <p>Section C</p> <p>Literature: Literary-prose/poetry extracts (seen- texts) comprehension and appreciation. (Two Extracts) Questions Based on Texts to assess comprehension and appreciation, analysis, inference, extrapolation Marks Book-Hornbill:</p> <ul style="list-style-type: none"> • The Portrait of a Lady (Prose) • A Photograph(Poem) • “We’re Not Afraid to Die... if We Can All Be Together” (Prose) • Discovering Tut: the Saga Continues • The Laburnum Top (Poem) • Landscape of the Soul (Prose) • Book-Snapshots: • The Summer of the Beautiful White Horse (Prose) • The Address (Prose) • Ranga’s Marriage (Prose) |
| 16. | Bengali | <ol style="list-style-type: none"> 1. Comprehension (Sandhi, Antonym , Sadhu -chalit) 2. Bengali Vocabulary(Tatsama and Tadbhaba) 3. Prose <ul style="list-style-type: none"> i) Gallileo ii) Bishal Danawala- Ek Thurthure Buro 4. Poetry <ul style="list-style-type: none"> i) Nun 5. Supplementary Reader <ul style="list-style-type: none"> i) Guru- Chapter 1 6. Internal Assessment <ul style="list-style-type: none"> i) Speaking skill ii) Listening skill |
| 17. | Cost Accounting | <p>Employability Skills</p> <p>Unit 1 Communication Skills-III Unit 2 Self-Management Skills-III Unit 3 ICT Skills-III</p> <p>Subject Specific Skills</p> <p>Unit 1 General principles Unit 2 Direct Materials Unit 3 Direct Labour</p> |
| 18. | Accountancy | <p>Unit 1</p> <p>a) Theoretical Framework</p> |

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| | | <p>1) Introduction of Accounting 2) Theory base of Accounting</p> <p>Unit 2</p> <p>a) Accounting process</p> <p>1) Reconstitution of business transactions 2) B.R.S(excluding Cash Book amendment) 3) Depreciation & provision & Reserve</p> <p>Project – 10marks</p> |
| 19. | Geography | <p>Part A: Fundamentals of Physical Geography</p> <p>Unit I: Geography as a Discipline Geography as an integrating discipline, as a science of spatial attributes. Branches of Geography: Physical Geography and Human Geography. Scope and Career Options (Non-evaluative)</p> <p>Unit II: The Earth Origin and evolution of the earth; interior of the earth Wegener's continental drift theory and plate tectonics Earthquakes and volcanoes: causes, types and effects</p> <p>Unit III: Landforms Rocks: major types of rocks and their characteristics</p> <p>Part B: India - Physical Environment</p> <p>Unit I: Introduction Location, space relations, India's place in the world</p> <p>Unit II: Physiography Drainage systems: Concept of river basins, watershed; the Himalayan and the Peninsular rivers</p> <p>Map work on identification / interpolation of features based on the units on the outline Physical/Political map of the world/ India</p> <p>Part C: Practical Work</p> <p>Chapter 1: Introduction to Maps Chapter2: Map Scale Chapter3: Latitudes, Longitudes and Time</p> |
| 20. | Political Science | <p>1) Constitution 2) Election and Representation 3) Local Government 4) Political Theory 5) Rights 6) Development</p> |
| 21. | Hindi | <p>अपठित गद्यांश , अपठित पद्यांश , शब्द कोश</p> <p>● आरोह- गद्य नमक का दारोगा , मियां नसीरुद्दीन, गलता लोहा काव्य मीराबाई , कबीर दास, वे आंखें , ● वितान लता मंगेशकर</p> |
| 22. | FMM | <p>1. Chapter 1: Analysis of various investment tools (Selected topics)</p> |

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| | | <ul style="list-style-type: none"> • Provident Funds • PPF • Mutual Funds <p>2. Chapter 2: Primary and Secondary Market</p> <p>Add on topics:</p> <ol style="list-style-type: none"> 1. Participants in a Primary Issue 2. Details of Book Building issue 3. Overseas Issues 4. SBTS 5. ISIN 6. Price -Time Priority 7. Clearing & Settlement 8. Arbitration in Details <p>3. Chapter 3: Financial Statement Analysis</p> <p>Ratio Analysis</p> <p>4. Employability Skills</p> <p>Unit 5: Green Skills</p> |
| 23. | Banking | <p>1. Unit 1: Article 1.3 Reserve Bank of India</p> <p>2. Unit 2: Article 2.1 Relationship between Banker & Customer</p> <p>Article 2.2 Special Types of Customers</p> <p>Article 2.3 Retail and Wholesale Banking</p> <p>Article 2.4 Deposit Accounts</p> <p>Add on topics NRI Banking</p> <p>DICGC</p> <p>Interest Calculations</p> |

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| | | <p>3. Unit 3: Employment of Bank Funds</p> <p> Add on topics Various Term Loans</p> <p> LAS Account</p> <p>4. Employability Skills</p> <p> Unit 1: Communication Skills</p> |
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