



Term 1 Syllabus
Class – XII
Session 2021-22

Sl.No.	Subject	Syllabus
1.	Chemistry	Unit 1 Solid state Unit 2 Solutions Unit 7 p - block elements Unit 10 Haloalkanes and Haloarenes Unit 11 Alcohols, phenols & ethers Unit 14 Biomolecules
2.	Biology	Chapter 2 Sexual Reproduction in Flowering Plants Chapter 3 Human Reproduction Chapter 4 Reproductive Health Chapter 5 Principles of Inheritance and Variation (upto Linkage and Recombination) Chapter 6 Molecular Basis of Inheritance
3.	Physics	UNIT I: Electrostatics : Chapter 1 : Electric Charges and Fields Chapter 2: Electrostatic Potential and Capacitance Unit II: Current Electricity : Chapter 3: Current Electricity Unit III: Magnetic Effects of Current and Magnetism : Chapter 4: Moving Charges and Magnetism Chapter 5: Magnetism and Matter Unit IV: Electromagnetic Induction and Alternating Currents : Chapter 6: Electromagnetic Induction Chapter 7: Alternating Current
4.	Maths	<ul style="list-style-type: none"> • Relations and Functions • Inverse Trigonometric Functions • Matrices • Determinants • Continuity And Differentiability: Up to Second Order Derivatives • Application of Derivatives: Increasing Decreasing Functions, Tangent Normal, Maxima Minima • Linear Programming

Sl.No.	Subject	Syllabus
5.	Applied Maths	<ul style="list-style-type: none"> • Number Quantification And Numerical Application [Modulo Arithmetic, Congruence Modulo, Alligation Mixture, Numerical Problem, Boat Stream Pipe Cistern, Races and Games, Partnership, Numerical Inequalities] • Matrices • Determinants (including Inverse, Cramer's rule, Leontiff model) • Higher Order Derivative • Application Of Derivatives [Marginal Cost Marginal Revenue Increasing Decreasing Function Maxima Minima] • Probability Distribution
6.	Physical Education	<p>Unit I Planning in Sports</p> <ul style="list-style-type: none"> • Meaning & Objectives Of Planning • Various Committees & its Responsibilities (pre; during & post) • Tournament – Knock-Out, League Or Round Robin & Combination • Procedure To Draw Fixtures – Knock-Out (Bye & Seeding) & League (Staircase & Cyclic) <p>Unit II Sports & Nutrition</p> <ul style="list-style-type: none"> • Balanced Diet & Nutrition: Macro & Micro Nutrients • Nutritive & Non-Nutritive Components Of Diet • Eating For Weight Control – A Healthy Weight, The Pitfalls of Dieting, Food Intolerance & Food Myths <p>Unit V Children & Women in Sports</p> <p>Motor development & factors affecting it Exercise Guidelines at different stages of growth & Development Common Postural Deformities - Knock Knee; Flat Foot; Round Shoulders; Lordosis, Kyphosis, Bow Legs and Scoliosis and their corrective measures. Sports participation of women in India.</p> <p>Unit VI Test & Measurement in Sports</p> <p>Motor Fitness Test – 50 M Standing Start, 600 M Run/Walk, Sit & Reach, Partial Curl Up, Push Ups (Boys), Modified Push Ups (Girls), Standing Broad Jump, Agility – 4x10 M Shuttle Run o Measurement of Cardio Vascular Fitness – Harvard Step Test/Rockport Test - Computation of Fitness Index: Duration of the Exercise in Seconds x 100 5.5 x Pulse count of 1-1.5 Min after Exercise</p> <p>Unit VIII Biomechanics & Sports</p>

		<ul style="list-style-type: none"> • Meaning and Importance of Biomechanics in Sports • Types of movements (Flexion, Extension, Abduction & Adduction) • Newton's Law of Motion & its application in sports
7.	Bio Technology	1. UNIT 5- Chapter I-Recombinant DNA Technology Chapter II- Protein Structure & Engineering Chapter III- Genomics, Proteomics & Bioinformatics
8.	Business Studies	Chapter 1: Nature and Significance of Management Chapter 2: Principles of Management Chapter 3: Business Environment Chapter 4: Planning Chapter 5: Organizing Chapter 11: Marketing Management
9.	History	Theme 1 – Bricks, Beads and Bones Theme 2 – Kings, Farmers and Towns Theme 3 –Kinship, Caste and Class Theme 4 –Thinkers, Beliefs and Buildings Theme 6 – Bhakti –Sufi Traditions Theme 7 – An Imperial Capital: Vijayanagara
10.	Sociology	Chapter 2 The Demographic Structure of Indian Society Chapter 3 Social Institutions : Continuity & Change Chapter 5 Patterns of Social Inequality & Change Chapter 6 The Challenges of Cultural Diversity
11.	IP	1. Data Handling using Python Pandas-I 2. Data Visualization 3. Societal Impact
12.	Economics	Macro Economics: 1. Money and Banking 2. Government Budget 3. Balance of Payment Indian Economic Development 1. Condition of India on the eve of independence 2. Indian Economy (1951-1990) 3. Policy of liberalisation, privatisation and Globalisation 4. Poverty 5. Rural Development (rural credit facilities and agricultural marketing system)

Sl.No.	Subject	Syllabus
13.	Computer Science	Unit I: Computational Thinking and Programming – 2 <ul style="list-style-type: none"> • Revision of Python topics covered in Class XI. • Functions: • Introduction to files • Text file • Binary file • CSV file
14.	Entrepreneurship	UNIT 1: Entrepreneurial Opportunity UNIT 2: Enterprise Planning UNIT 5: Business Arithmetic
15.	English Core	<p>Section A</p> <p>Reading Comprehension:(Two Passages)</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 :</p> <p>Short Writing Tasks</p> <ul style="list-style-type: none"> • Notice Writing • Classified Advertisements <p><u>Long Writing Tasks(One)</u></p> <ul style="list-style-type: none"> • Letter to an Editor (giving suggestions or opinion on issues of public interest) • Article Writing <p>Section C</p> <p>Literature : Literary-prose/poetry extracts(seen- texts) to assess comprehension and appreciation, analysis, inference, extrapolation</p> <p>Questions Based on Texts to assess comprehension and appreciation, analysis, inference, extrapolation</p> <p><u>Book- Flamingo (Prose)</u></p> <ul style="list-style-type: none"> • The Last Lesson • Lost Spring • Deep Water <p><u>Book-Flamingo (Poetry)</u></p>

		<ul style="list-style-type: none"> • My Mother at Sixty-Six • An Elementary School Classroom in a Slum • Keeping Quiet <p><u>Book-Vistas (Prose)</u></p> <ul style="list-style-type: none"> • The Third Level • The Enemy
16.	Bengali	<ol style="list-style-type: none"> 1. Comprehension(Sandhi, Antonym and Sadhu-chalit) 2. Grammar-Proverb and idiom-meaning 3. Prose <ol style="list-style-type: none"> i) Ke banchay ke banche ii) Nana ronger din 4. Poetry <ol style="list-style-type: none"> i) Krandanrata janair pashe ii) Porte jane emon ek mojurer prashno 5. Supplementary Reader- Amar bangla <ol style="list-style-type: none"> i) Garopaharer niche ii) Chhatir bodole hati 6. Internal Assessment <ol style="list-style-type: none"> i) Speaking skill ii) Listening skill
17.	Cost Accounting	<p>Employability Skills</p> <p>Unit 1 Communication Skills-IV Unit 2 Self-Management Skills –IV Unit 3 ICT Skills –IV</p> <p>Subject Specific Skills</p> <p>Unit 1 Single Or Output Costing Unit 2 Direct Materials Unit 3 Contract Costing</p>
18.	Accountancy	<p>Part-A</p> <ol style="list-style-type: none"> 1) Accounting for partnership firm <ol style="list-style-type: none"> a) Fundamentals b) Changes in P.S Ratio c) Admission of Partner (excluding cap.adj.&B.S) 2) Company Accounts <ol style="list-style-type: none"> a) Accounting for shares <p>Part-B(Analysis of Financial Statement)</p> <ol style="list-style-type: none"> 1) Financial Statement of Companies <ol style="list-style-type: none"> a) Statement of P/L and B.Sheet (as per co.act2013) b) Financial Statement Analysis (objective Importance & Limitations) c) Accounting Ratios <p>Project work- 10 marks</p>

19.	Geography	<p>Part A: Fundamentals of Human Geography</p> <p>Unit I: Human Geography: Nature and Scope</p> <p>Unit II: People Population - distribution, density and growth Population change - spatial patterns and structure; determinants of population change Human development - concept; selected indicators, international Comparisons</p> <p>Unit III: Human Activities Primary activities - concept and changing trends; gathering, pastoral, mining, subsistence agriculture, modern agriculture; people engaged in agricultural and allied activities - some examples from selected countries</p> <p>Part B: India: People and Economy</p> <p>Unit I: People Population: distribution, density and growth Migration: International and national-Types causes and Consequences</p> <p>Unit II: Human Settlements Rural settlements - types and distribution Urban settlements -types, distribution and functional classification</p> <p>Unit III: Resources and Development Water resources - availability and utilization-irrigation, domestic, industrial and other uses; scarcity of water and conservation methods-rain water harvesting and watershed management</p> <p>Map Work on identification of features based on 1-5 units on the outline Political map of World.</p> <p>Part C: Practical Work</p> <p>Unit 1: Processing of Data and Thematic Mapping Processing of Data and Thematic Mapping Type and Sources of data: Primary, Secondary and other sources Tabulating and processing of data; calculation of averages, measures of central tendency</p>
20.	Political Science	<ol style="list-style-type: none"> 1) The Cold War Era 2) The End of Bipolarity 3) Challenges of Nation Building 4) India's Foreign Policy 5) Politics of Planned Development

6) United Nations and Principal Organs.		
21.	Hindi	<p>अपठित गद्यांश</p> <ul style="list-style-type: none"> ● अपठित पद्यांश ● अभिव्यक्ति और माध्यम <p>आरोह भक्तिन , काले मेघा पानी दे , बाजार दर्शन</p> <ul style="list-style-type: none"> ■ काव्य दिन जल्दी जल्दी ढलता है , कविता के बहाने , कैमरे में बंद अपाहिज , सहर्ष स्वीकारा है, रु ■ वितान सिल्वर वेडिंग, जूझ,
22.	FMM	<p>1. Chapter 1: Analysis of various investment tools (Selected topics)</p> <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 Ratio Analysis</p> <p>4. Employability Skills 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 Article 2.2 Special Types of Customers Article 2.3 Retail and Wholesale Banking Article 2.4 Deposit Accounts Add on topics: NRI Banking DICGC Interest Calculations</p> <p>3. Unit 3: Employment of Bank Funds Add on topics: Various Term Loans LAS Account</p> <p>4. Employability Skills Unit 1: Communication Skills</p>