

Syllabus for Class XI for the year 2011-12

ENGLISH CORE:

1st Term

Literature

Hornbill

1. Portrait of a Lady
2. Voice of the Rain
3. The Ailing Planet

Snapshot

1. The Summer of The Beautiful white Horse
2. The Address

Language

1. Notice
2. Display & classified Advertisement
3. Invitation – Formal, Informal, Acceptance, Regret.
4. Form – filling
5. Poster
6. Process Writing
7. Factual Description
8. Letters – Enquiry, Complaint
9. Report Writing
10. Summary Writing

2nd Term

Literature

1. Landscape of the Soul
2. Ranga's Marriage
3. Einstein in School
4. The Ghat of the Only World
5. Father to Son

Language

1. Letters – Placing Orders, Request, Job Application, To The Edition
2. Article Writing
3. Note Making
4. 1st & 2nd term Syllabus

ELECTIVE ENGLISH

- Books: 1. Woven Words
2. Arms and The Man
3. Old Man and the Sea

1st Term

- Woven Words:
1. The Lament
 2. A Pair of Mustachios
 3. Gory at Twilight
 4. The Luncheon
 5. The Peacock
 6. The World is Too Much with us
 7. Hawk Roosting
 8. Refugee Blues
 9. My Three Passion
 10. What is a Good Book?

1. Arms and The Man (Act I & II)
2. Old Man and the Sea

1. Essay Writing
2. Report Writing
3. Editing
4. Narration

2nd Term

1. Pappachi's Moch
2. The Third and The Final Continent
3. A Wedding in Bronsville
4. One Centimetre
5. Ode to a Nightingale
6. Coming
7. Felling of the Banyan Tree
8. The Argumentative Indian

1. Arms and the Man

2. Old Man and the Sea

1. Speech Writing
2. Article Writing

SOCIOLOGY

1st Term

Book: Introducing Sociology

Sociology and Common Sense Knowledge

Chapter 1: Sociology and Society

Chapter 2: Terms, Concepts and their use in Sociology

Formal and Informal Institutions

Chapter 3: Understanding Social Institutions

Chapter 4: Culture and Socialisation

2nd Term

Book: Understanding Society

Stratification of Society

Chapter 1: Structure, Function and System

Chapter 2: Social Stratification: Nature and Bases

Social Progress

Chapter 3: Social Processes

Chapter 4: Social change

and also 1st term syllabus

PSYCHOLOGY

1st Term

Theory

1. What is Psychology?
2. Sensory, attentional and Perceptual Process
3. Learning
4. Human Memory
5. Methods of Enquiry in Psychology

Practical

1. Assessment of memory Span [Variation of presentation & Material]
2. Learning [Application of factors influencing learning]
3. Perception [Factors influencing illusion]

2nd Term

Theory

1. The Bases of human behaviour
2. Motivation and Emotion
3. Human Development
4. Thinking

Practical

- I. Test administration
 1. Personality
 2. Test of disabilities among children
- II. Project

FASHION STUDIES

Introduction to Fashion:

1. What is Fashion – an overview
2. Different factors that influence fashion
3. Fashion – different terminologies
4. Difference between Style & fashion
5. Comparative Study between Design – Art & Craft
6. Principles of Fashion
7. Different aspects of fashion
8. Job of different professionals in industry.

Elements of Design:

1. What is Design?
2. Elements of design – point, line, shape, color, form, silhouette etc
3. Principles of design – Texture, proximity, Balance etc.
4. Perspective – one point, two point.
5. Basic 3D form.
6. Different aspects of Design.

Introduction to Textiles:

1. Textile & its use.
2. Concept of fibre & yarn.
3. Classification of textile fibre as per their source.
4. Different properties of natural fibre (cotton, silk, wool, linen) & manmade fibre (Rayon, Polyester, nylon, acrylic, spandex, tencel).

5. Relationship between fibre – yarn & thread.
6. Twisting of yarn – 's' twist, 'z' twist.
7. Different qualities of yarn.
8. Weaving – Concept of simple loom & operations.
 - weaving processes
 - classification of weaving with diagram.
9. Knitting – concept of knitting – different terminologies
 - Difference between wamp knitting technique and weft knitting technique.
 - Different fabric variations.
10. Finishing of Fabric – Must do finishes
 - Aesthetic finishes.
11. Fabric dyeing – Different types of dye
 - Dye & pigment
 - Dyeing processes
12. Fabric and its use.

Garment Construction:

1. Stitching machine and its types
2. Lock stitch
3. Different parts in a machine and their function
4. Difference between pressure and feed.
5. Seam – different seam finishing
 - plain seam
 - French seam
 - Flat felled seam
 - Hongkong seam
 - Commersed seam
 - Gather
 - Pleat → knife, box, inverted.
 - Tucks

GEOGRAPHY

SA I

THEORY

India: Physical Environment

Unit I : Introduction

1 . India - Location

Unit II : Physiography

2. Structure and Physiography

3. Drainage System.

Unit III : Climate, Vegetation and Soil

4. Climate

Fundamentals of Physical Geography

Unit I : Geography as a Discipline.

1. Geography as a discipline

Unit II : The Earth

2. The Origin & Evolution of the Earth.
3. Interior of the Earth
4. Distribution of Oceans & Continents.

Unit III : Landforms

5. Minerals & Rocks
6. Geomorphic Processes
7. Landforms & their Evolution.

SA II

India : Physical Environment

Unit III : Climate, Vegetation & Soil

5. Natural Vegetation
6. Soils

Unit IV : Natural Hazards and Disasters:

Causes, Consequences & Management

7. Natural Hazards & Disasters

Fundamentals of Physical Geography

Unit IV : Climate

8. Composition and Structure of the Atmosphere
9. Solar Radiation, Heat Balance and Temperature
10. Atmospheric Circulation & Weather System
11. Water in the Atmosphere.

Unit V : Water (Ocean)

13. Water (Oceans)
14. Movements of Ocean

PRACTICALS

SA I

Chapter1: Introduction to Maps

- 2: Map Scale
- 3: Latitude, Longitude & Time
- 4: Map Projections

SA II

Chapter5: Topographical Maps

- 8: Weather Instruments, Maps & Charts.

POLITICAL SCIENCE

1st Term:

- I. THE SOURCE OF AUTHORITY IN INDIA
 - a) Constitution Why and How
 - b) The Philosophy of The Consitution

- II. THE PILLARS OF DEMOCRACY
 - a) Freedom
 - b) Equality
 - c) Rights in the Indian Constitution

- III. THE MECHANISM OF GOVERNANCE
 - a) Executive
 - b) Legislature

2nd Term

- I. THE GUARDIAN OF RIGHTS AND THE CONSTITUTION
 - a) Judiciary

- II. THE BIRTH OF INDIAN DEMOCRACY
 - a) Problems of Partition
 - b) Integration of Princely States
 - c) Reorganization of States

- III. CHALLENGE OF BUILDING DEMOCRACY
 - a) Era of One party dominance
 - b) Emergence of Opposition Parties

- IV. POLITICS OF PLANNED DEVELOPMENT
 - a) Planning and the Planning Commission of India
 - b) The First and Second Five Year Plans
 - c) Green Revolution

- V. INDIA'S EXTERNAL RELATIONS
 - a) Policy of Non Alignment
 - b) Peace and Conflict with China
 - c) War and Peace with Pakistan
 - d) India's Nuclear Policy.

HISTORY

1st Term

- 1. From the beginning of time
- 2. Writing and city life
- 3. The Three orders
- 4. Changing Cultural Tradition

2nd Term

- 1. The Industrial Revolution

2. Paths to Modernization
3. An empire across three continents
4. Displacing Indigenous People

BENGALI (2ND LANGUAGE)

1st Term

- Prose - Raju Panre, Pondit Mosay, Ispater Meye
- Poetry- Rasta karor ekar noi, Premboichitra, Amar koifiot.
- Grammar- Bakko paribartan, Karok O Bibhakti, Sadhu O Cholit, Baghdhara,
Sudha- Asudha.
- Rapid- Karno-Kunti Sambad

Essay, comprehension, Bhab-Samprasaran.

2nd Term

- Prose- Raju Panre, Amra O Tomra, Pandit Mosay, Ispater Meye
- Poetry- Rasta karor ekar noi, Amar koifiat, Premboichitra
- Grammar- Bakko Paribartan, Karok O Bibhakti, Sadhu O Cholit, Baghdhara,
Sudha - Asudha
- Rapid- Karno- kunti Sambad

Essay, comprehension, Bhab Samprasaran.

HINDI (2ND LANGUAGE)

1st Term

Aroh – Gadya

1. Miyan Nasiruddin
2. Appu ke sath 2 ½ sal
3. Vidae Sambhashan
4. Galta Loha
5. Spiti Mein Barish (Extra Reading)

Poem

1. Ham tho Ek Kari Jana
Santo Dhekh Jag Bourana
2. Mere to Giridhar Gopal
Pag Ghungaru Bandhi Mira Nachi Rey
3. Pathik
4. Ve Ankhe

Vithan – Alo Andhari

Jan Sanchar – Print Madhyam
Sampadakia
Report

Apathith Gadyansh and Kavyansh
Revision – Alankar
Nibandh aur Patra

2nd Term

Aaroh

1. Rajani
2. Jammun ka Ped
3. Bharat Mata
4. Aatma ke Tharap
5. Ghar kee Yaad
6. Champa Kale Kale Akshar Nahi Chinhthi
7. Saye Me Dhup
8. Thea Bhukh Mat Machal (Pathpurti)
9. Thea Mere Juhi Ke Phool Jaise Ishwar(Pathpurti)
10. Aao Milkari Bachai (Pathpurti)

Vithan

1. Bhartiya Gayikao Mein Bejor Lata Mangeshkar
2. Rajasthan Ke Rajat Bunde

Jansanchar

Alekh & Feature writing
Revision of 1st term syllabus literature and grammar
Apathith Gadyansh & Padhyansh
Neeband and Patra

APPLIED ART (COMMERCIAL ART)

1st Term

Practicals

1. Drawing- Still Life and Nature with pencil, monochrome water colour and Multi water colour
2. Sketch- Human figures sketch

Theory

1. Art of Indus Valley
2. Temple Sculpture and South Indian Bronze.

2nd Term

Practicals

1. Study of Lettering of Roman and Gothic
2. Human figures sketch

Theory

1. Buddhist and Jain Art
2. First Term-All

ECONOMICS

1ST Term

Part A: Statistics

1. Introduction- Meaning, scope & importance of Statistics
2. Collection, Organisation & Presentation of Data
 - Collection- Primary & Secondary Data
 - Census & Sample Methods
 - Organisation- Meaning & types of variables – Frequency Distribution
 - Presentation of Data – Tabular & Diagrammatic Presentation of Data
 - i) Geometric forms – Bar Diagrams & Pie Diagrams
 - ii) Frequency Diagrams– Histogram, Polygon, Ogive

Part B: Indian Economic Development

5. Development Policies & Experience (1947-90).
 - Introduction of Indian economy on The eve of independence
 - Common goals of 5 Year Plans
 - Main features, problems & policies of agriculture, industry & foreign trade
6. Economic Reforms since 1991
 - Liberalisation, Globalisation & Privatisation,
 - appraisal of LPG policies.

2nd Term

Part A:

3. Statistical Tools & Interpretation
 - Mean, Median, Mode
 - Measures of Dispersion – Range, Quantile Deviation, Mean- Deviation & Standard Deviation.
4. Developing Projects in Economics
 - Students encouraged to develop Projects which have Primary, Secondary, Data or both, case studies of few organizations encouraged.
 - i) Demographic structure of your neighbourhood
 - ii) Consume Awareness amongst households
 - iii) Changing prices in market
 - iv) Study of a co-operative institution: milk co-operatives

Part B:

7. Current Challenges facing Indian Economy.
 - Poverty- Absolute, Relative, Poverty Alleviation Prog., Critical assessment
 - Rural Development- key issues- credit & marketing, role of co- operatives, agricultural diversification.
 - Human Capital formation
 - Employment- Formal & Informal
 - Inflation- Problems & Policies
 - Meaning & types of infrastructure- Energy & Health
 - Sustainable Economic Development
8. Development experience of India- comparison

with neighbours { India & Pakistan
 { India & China

WEB TECHNOLOGY AND MULTIMEDIA

1st Term

1. Introduction to Computer System
2. Software
3. Memory Hierarchy
4. HTML

2nd Term

1. VB Scripting
2. XML
3. CSS
4. Photoshop

ENTREPRENEURSHIP

1st Term

- | | |
|------------|--|
| Chapter 1: | Entrepreneurship Concept |
| Chapter 2: | Need & importance of Entrepreneurship |
| Chapter 4: | Entrepreneurship functions |
| Chapter 5: | Characteristics of Entrepreneurship |
| Chapter 6: | Entrepreneurship – Growth & Development |
| Chapter 7: | Entrepreneurship pursuits & Human Activities |
| Chapter 3: | Entrepreneurship, Employment & Education |

2nd Term

- | | |
|-------------|------------------------------------|
| Chapter 8: | Entrepreneurship values |
| Chapter 9: | Entrepreneurship Attitudes |
| Chapter 10: | Entrepreneurship Motivation |
| Chapter 11: | Entrepreneurship Competencies |
| Chapter 12: | Barriers to Entrepreneurship |
| Chapter 13: | Help & Support to Entrepreneurship |
| Chapter 14: | Understanding a Market |
| Chapter 15: | Competitive Analysis of the Market |
| Chapter 16: | Patents, Trademarks + Copyrights |

BUSINESS STUDIES

PART A: Foundations of Business

1st Term

1. Nature and Purpose of Business
 - Concept and characteristics of business
 - Business, profession & employment – distinctive features
 - Objectives of business – role of profit in business
 - Industry and commerce
 - Industry – types

(8)

- Commerce: trade & auxiliaries
 - Business Risk – nature & causes
2. Forms of Business Organisations (12)
- Sole Proprietorship
 - Joint Hindu Family Business } meaning features
 - Partnership } merits & limitations
 - Co-operative society } meaning, types, features,
 - Company } merits & limitations
 - Choice of form of business organizations
 - Starting a business – basic factors
3. Private, Public and Global Enterprises (10)
- Private sector & Public sector
 - Departmental undertakings
 - Statutory Corporations
 - Government company
 - Changing role of Public Sector
 - Global Enterprises – meaning & features
 - Joint Ventures –meaning benefits
4. Business Services (8)
- Nature and types of Business Services - Banking, Insurance, Transportation, Warehousing, Communication
 - Banking, e – banking, types of banks, functions
 - Insurance: principles, types
 - Warehousing: types & functions.
5. Emerging Modes of Business (6)
- e – Business meaning, scope and benefits, resources required for successful e – business implementation, Online Transactions, payment mechanism, security & safety of business transactions.
 - Outsourcing – concept, need & scope
6. Social Responsibility of Business & Business Ethics (6)
- Concept of social responsibility
 - Case for social responsibility
 - Responsibility towards different interest groups
 - Business & environmental protection
 - Business ethics: concept & elements

PART B: Corporate Organization, Finance & Trade

2nd Term

7. Formation of a Company (7)
- Promotion
 - Incorporation
 - Commencement of business
8. Sources of business finance (10)
- Nature & significance
 - Owner’s fund & borrowed funds

- Sources – Equity & Preference Shares – Debentures & Bonds – Retained profits – Public Deposits – loan from commercial banks – loans from financial institutions – Trade Credit – GDR – ADR

9. Small Business (7)

- Small scale industry – Tiny sector, cottage & rural industry
- Role of small business in Rural India.
- Problems of small business in India
- Government assistance and special schemes for industries in rural backward & hilly areas.

10. Internal Trade (10)

- Meaning and types of internal trade: wholesale and retail
- Services of wholesaler and retailer
- Types of Retail Trade
 - Itinerant & fixed shops
 - Departmental store, super market, malls, chain store, mail order business, consumer's co-op. store
 - Automatic Vending machine
 - Role of chamber of commerce and industry.

11. International Business (6)

- Nature, importance and complexities involved in International Business
- Ways of entering into International Business
- Export – Import procedures & documentation
- Foreign Trade Promotion's – Organisational support and incentives – nature & importance of EPZ/ SEZ

- International Trade Institutions and Agreements WTO, UNCTAD, WBank, IMF.

12. Project Work – In Both Terms (10)

ACCOUNTANCY

1st Term

PART A: FINANCIAL ACCOUNTING – I

1. Introduction to Accounting:

- Accounting – meaning, objectives, accounting as a source of information, internal & external users of accounting information.
- Qualitative characteristics of accounting information
- Role of accounting
- Basic Terms

2. Theory Base of Accounting:

- Accounting Principles- meaning and nature
- Accounting concepts
- Accounting standards – concept
- Process of accounting upto trial balance

3. Recording of Business Transactions

- Voucher & Transactions
- Recording of Transaction – Journal, special purpose books, Ledger, Posting from journal & Subsidiary Books, Balancing of accounts.

4. Depreciation Provisions and Reserves
 - Depreciation – Meaning, need, factors & methods. i) Straight Line Method & ii) Written Down Method.
 - Provisions & Reserves – Meaning, importance, difference between Provision & Reserve, Types of Reserves
5. Accounting for Bills of Exchange Transactions
 - Bills of exchange & Promissory note: definition, features, parties, specimen & distinction and other terms involved
 - Accounting treatment of trade bills

2nd Term

6. Financial Statements
 - Financial Statements : meaning and users
 - Capital Expenditure & Deferred Revenue Expenditure
 - Preparation of Trading & Profit and Loss Account and Balance Sheet of sole proprietorship with adjustments
7. Accounts from Incomplete Records
 - Incomplete records : meaning, uses and limitations.
 - Ascertainment of profit/ loss by statement of affairs method, conversion method
8. Rectification of Errors
 - Trial Balance, meaning, objectives & preparation
 - Errors – Types, Detection and Rectification of one sided & two sided errors . Use of Suspense Account
9. Computers in Accounting
10. Accounting and Database

MATHEMATICS

1st Term

1. Sets
2. Relations and Functions
3. Sequence and Series
4. Trigonometry – Trigonometric function
 - Compound Angles
 - Transformation formula
 - Multiple Angles
 - Submultiple Angles
5. Principle of Mathematical Induction
6. Limits
7. Differentiation
8. Co ordinate geometry – Straight Lines

2nd Term

1. Permutation and Combination
2. Binomial Theorem
3. Co ordinate geometry –
 - Circles
 - Parabola
 - Ellipse
 - Hyperbola
4. Quadratic Equation
5. Complex Number
6. Linear Inequation

7. Trigonometric Equation
8. Probability
9. 3 Dimensional Geometry

CHEMISTRY

1st Term

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. States of matter: Gases & Liquids
6. Organic Chemistry Some basic Principles

2nd Term

1. Thermodynamics
2. Equilibrium
3. Redox Reactions
4. Hydrocarbons
5. Hydrogen
6. s- block elements
7. p- block elements
8. Environmental Chemistry

PHYSICS

1st Term

1. Physical world & Measurement
2. Kinematics
3. Laws of Motion (except circular motion)
4. Work, Energy, Power
5. Gravitation

2nd Term

1. Circular Motion
2. Motion of system of particles and rigid body
3. Properties of bulk matter
4. Thermodynamics
5. Behavior of perfect gas & kinetic theory of gases
6. Oscillations + including first term

COMPUTER SCIENCE

1st Term

1. Computer Overview
2. Working with Operating System
3. Data Representation
4. Input, Output and Memory Devices
5. General OOP Concepts
6. Getting started with C++

7. Data Handling
8. Operators and Expressions in C++
9. Flow of Control

2nd Term

1. Standard Library and Header file
2. User defined functions
3. Structured Data Type : Array
4. Structures
5. Programming Methodology

BIOTECHNOLOGY

1st Term

1. Genetics - }
 - (i) Mendelian Genetics
 - (ii) DNA, RNA & Protein Synthesis (Central Dogma)
 - (iii) Operon System
 - (iv) Genetic Techniques
2. pH, buffer, Macromolecular Structure and function

2nd Term

1. Biochemical techniques
2. Cell division, Cell cycle, Immune System and the entire chapter
3. Cellular techniques

BIOLOGY

1st Term

1. Structural organization of cell
 2. Cell Cycle
 3. Biomolecules
 4. Five kingdom classification
 5. Plant Kingdom
 6. Animal Kingdom
 7. Digestion
 8. Respiration
 9. Circulation
 10. Excretion
 11. Movement and locomotion
- } Human Physiology

2nd Term

- 1st Term Syllabus +
 12. Nervous co - ordination
 13. Chemical co - ordination
 14. Photosynthesis
 15. Respiration in plants
 16. Transport in plants
 17. Mineral nutrition in plants
 18. Plant growth and development
- } Hormones

19. Morphology of plants
20. Anatomy of plants
21. Morphology of animals
22. Anatomy of animals

GENERAL COMPUTER

1st Term

`C' Programming (Basic concepts up to for loop)

2nd Term

`C' Programming (while loop up to switch case)