

ANNUAL SYLLABUS (2023-24)
CLASS XI

ENGLISH (301)

Hornbill (Reader)

Prose:

1. The Portrait of A Lady
2. We're Not Afraid to Die...if We Can All Be Together
3. Discovering Tut: The Saga Continues
4. The Adventure
5. Silk Road

Poetry:

6. A Photograph
7. The Laburnum Top
8. The Voice of the Rain
9. Childhood
10. Father to Son

Snapshots (Supplementary Reader)

1. The Summer of the Beautiful White Horse
2. The Address
3. Mother's Day
4. Birth
5. The Tale of Melon City

General English/Writing Skills

1. Passages to assess comprehension, Note- making
2. Poster Designing
3. Classified Advertisements
4. Speech writing based on verbal/ visual cues related to some contemporary topic.
5. Debate writing based on verbal/ visual inputs based on contemporary topical issues.

Grammar

1. Tenses
2. Clauses
3. Re-ordering/ Transformation of Sentences

MATHEMATICS (041)

Unit -I: Sets and Functions

Ch – 1 : Sets

Ch – 2 : Relations and Functions

Ch – 3 : Trigonometric Functions

Unit – II : Algebra

Ch – 4 : Complex Numbers

Ch – 5 : Linear Inequalities

Ch – 6 : Permutations and Combinations

Ch – 7 : Binomial Theorem

Ch – 8 : Sequences and Series

Unit – III : Coordinate Geometry

Ch – 9 : Straight Lines

Ch – 10 : Conic Sections

Ch – 11 : Introduction to 3-Dimensional Geometry

Unit – IV : Calculus

Ch – 12 : Limits and Derivatives

Unit – V : Statistics and Probability

Ch – 13 : Statistics

Ch – 14 : Probability

APPLIED MATHEMATICS (241)

Unit / Chapter

Unit 1- Numbers, Quantification and Numerical Analysis

Ch 1. Numbers and Quantification

Ch 2. Numerical Application

Unit 2- Algebra

Ch 3. Sets

Ch 4. Relations

Ch 5. Sequences and Series

Ch 6. Permutations and Combinations

Unit 3- Mathematical Reasoning

Ch 7. Mathematical and Logical Reasoning (only Logical Reasoning)

Unit 4- Calculus

Ch 8. Calculus

Unit 5 - Probability

Ch 9: Probability

Unit 6- Descriptive Statistics

Ch 10. Descriptive Statistics

Unit 7- Financial Mathematics

Ch 11: Basics of Financial Mathematics

Unit 8 – Coordinate Geometry

Ch 12: Coordinate Geometry

PHYSICS

Chapter 1 : Units and Measurements

Chapter 2 : Motion in a Straight Line

Chapter 3 : Motion in a Plane

Chapter 4 : Laws of Motion

Chapter 5 : Work, Energy and Power

Chapter 6 : System of Particles and Rotational Motion

Chapter 7 : Gravitation

Chapter 8 : Mechanical Properties of Solids

Chapter 9 : Mechanical Properties of Fluids

Chapter 10 : Thermal Properties of Matter

Chapter 11 : Thermodynamics

Chapter 12 : Kinetic Theory

Chapter 13 : Oscillations

Chapter 14 : Waves

CHEMISTRY

Unit 1 : Some Basic Concepts of Chemistry

Unit 2 : Structure of Atom

Unit 3 : Classification of Elements and Periodicity in Properties

Unit 4 : Chemical Bonding and Molecular Structure

Unit 5 : Chemical Thermodynamics

Unit 6 : Equilibrium

Unit 7 : Redox Reactions

Unit 8 : Organic Chemistry : Some Basic Principles and Techniques

Unit 9 : Hydrocarbons

BIOLOGY

Unit I: Diversity of Living Organisms

Chapter 1: The Living World

Chapter 2: Biological Classification

Chapter 3: Plant Kingdom

Chapter 4: Animal Kingdom

Unit II: Structural Organisation in Animals and Plants

Chapter 5: Morphology of Flowering Plants

Chapter 6: Anatomy of Flowering Plants

Chapter 7: Structural Organisation in Animals

Unit III: Cell: Structure and Function

Chapter 8: Cell: The Unit of Life

Chapter 9: Biomolecules

Chapter 10: Cell Cycle and Cell division

Unit IV: Plant Physiology

Chapter 11: Photosynthesis in Higher Plants

Chapter 12: Respiration in Plants

Chapter 13: Plant Growth and Development

Unit V: Human Physiology

Chapter 14: Breathing and Exchange Of Gases

Chapter 15: Body Fluids and Circulation

Chapter 16: Excretory Products and their Elimination

Chapter 17: Locomotion and Movement

Chapter 18: Neural Control and Coordination

Chapter 19: Chemical Control and Integration

COMPUTER SCIENCE

Chapter 1: Computer System Overview

1.1 Introduction

1.2 Computer Components and Basic Computer Organization

1.4 Types of Software

Chapter 2: Data Representation

Chapter 4: Introduction to Problem Solving

Chapter 5: Getting Started With Python

Chapter 6: Python Fundamentals

Chapter 7: Data Handling

Chapter 8: Flow of Control

Boolean Logic

(Disclaimer: Chapter No. not mentioned as book is under print)

Chapter 9: String Manipulation

Chapter 10: List Manipulation

Chapter 11: Tuples

Chapter 12: Dictionaries

Chapter 13: Cyber Safety

Chapter 14: Online Access and Computer Security

Chapter 15: Society, Law and Ethics

ECONOMICS

PART A: STATISTICS FOR ECONOMICS

Unit-1 Introduction

Unit-2 Collection, organisation and presentation of data

Unit-3 Statistical tools and interpretation

- Measures Of Central Tendency
- Correlation
- Introduction to Index Numbers

PART B: INTRODUCTORY MICROECONOMICS

Unit-4 Introduction

Unit-5 Consumer's equilibrium and Demand

Unit-6 Producer Behaviour and Supply

Unit-7 Forms of Market and Price Determination under Perfect Competition with simple applications

ACCOUNTANCY

Part A: Financial Accounting-I

Unit 1: Theoretical Framework

Ch-1 Introduction to Accounting

Ch-2 Basic Accounting Terms

Ch-3 Theory base of Accounting, Accounting standards and Indian accounting standards

Ch-4 Bases of Accounting

Ch-5 Accounting Equation

Ch-6 Accounting Procedures

Unit 2: Accounting Process

Ch-7 Origin of Transactions, Source documents and preparation of voucher

Ch-8 Journal

Ch-9 Ledger

Ch-10 Special Purpose Books I-Cash Book

Ch-11 Special Purpose Books II-Other Books

Ch-12 Accounting of Goods and Services Tax

Ch-13 Bank Reconciliation Statement

Ch-14 Trial Balance

Ch-15 Depreciation

Ch-16 Provisions and reserves

Ch-17 Rectification of Errors

Part B: Financial Accounting-II

Unit 3: Financial Statements of Sole Proprietorship

Ch-18 Financial Statements of Sole Proprietorship

Ch-19 Adjustments in preparation of Financial Statements

Ch -20 Single Entry System

Part C: Project Work

BUSINESS STUDIES

Part A Foundations of Business

Chapter 1 : Evolution and Fundamentals Of Business

Chapter 2 : Forms of Business Organisations

Chapter 3 : Public, Private and Global Enterprises

Chapter 4 : Business Services

Chapter 5 : Emerging Modes of Business

Chapter 6 : Social Responsibility of Business and Business Ethics

Part B : Finance and Trade

Chapter 7 : Sources of Business Finance

Chapter 8 : Small Business

Chapter 9 : Internal Trade

Chapter 10 : International Business

INFORMATICS PRACTICES

Chapter 1 Computer System

Chapter 2 Emerging Trends

Chapter 3 Brief Overview of Python

Chapter 4 Working with Lists and Dictionaries

Chapter 7 Database Concepts

Chapter 8 Introduction to Structured Query Language (SQL)

GEOGRAPHY

Fundamentals of Physical Geography

Unit I-Geography As a Discipline

Chapter1 Geography As a Discipline

Unit - II The Earth

Chapter 2 The Origin and Evolution of the Earth

Chapter 3 Interior of the Earth

Chapter 4 Distribution of oceans and continents

Unit - III Landforms

Chapter 5 Geomorphic Processes

Chapter 6 Landform and their Evolution

Unit - IV Climate

Chapter 7 Composition and Structure of Atmosphere

Chapter 8 Solar Radiation, Heat balance and Temperature

Chapter 9 Atmospheric Circulations and Weather Systems

Chapter 10 Water in the Atmosphere

Chapter 11 World Climate and Climate Change (To be tested through internal assessments in the form of project and presentation)

Unit - V Water (Oceans)

Chapter 12 Water (Oceans)

Chapter 13 Movements of Ocean Water

Unit - VI Life on the Earth

Chapter 14 Biodiversity and Conservation (To be tested through internal assessments in the form of project and presentation)

India Physical Environment

Unit - I Introduction

Chapter 1 India-Location

Unit - II Physiography

Chapter 2 Structure and Physiography

Chapter 3 Drainage System

Unit - IV Natural Hazards and Disasters: Causes Consequences and Management

Chapter 6 Natural Hazards and Disasters (To be tested through internal assessment in the form of Projects and presentation)

Unit - III Climate Vegetation and Soil

Chapter 4 Climate

Chapter 5 Natural Vegetation

PSYCHOLOGY

CHAPTER 1- What is psychology?

CHAPTER 2- Methods of Enquiry in psychology

CHAPTER 4- Human Development

CHAPTER 5- Sensory, Attentional and Perceptual Processes

CHAPTER 6- Learning

CHAPTER 7- Human Memory

CHAPTER 8- Thinking

CHAPTER 9- Motivation and Emotions

POLITICAL SCIENCE

PART A- INDIAN CONSTITUTION AT WORK

Chapter 1 Constitution: Why and How?

Chapter 2 Rights in the Indian Constitution

Chapter 3 Election and Representation

Chapter 4 Executive

Chapter 5 Legislature

Chapter 6 Judiciary

Chapter 7 Federalism

Chapter 8 Local Governments

Chapter 9 Constitution as a Living Document

Chapter 10 The Philosophy of the Constitution

PART B-POLITICAL THEORY

- Chapter 1 Political Theory: An Introduction
- Chapter 2 Freedom
- Chapter 3 Equality
- Chapter 4 Social Justice
- Chapter 5 Rights
- Chapter 6 Citizenship
- Chapter 7 Nationalism
- Chapter 8 Secularism

PHYSICAL EDUCATION

- Unit 1: Changing Trends and Career in Physical Education
- Unit 2: Olympic Value Education
- Unit 3: Yoga
- Unit 4: Physical Education and Sports for CWSN
- Unit 5: Physical Fitness, Wellness and lifestyle
- Unit 6: Test, Measurement and Evaluation
- Unit 7: Fundamentals of Anatomy and Physiology in Sports
- Unit 8: Fundamentals of Kinesiology and Biomechanics in Sports
- Unit 9: Psychology and Sports
- Unit 10: Training and Doping in Sports

PAINTING

UNIT 1

Pre-historic Rock Paintings and Art of Indus Valley (2500 B.C. to 1500 B.C.)

UNIT 2

Buddhist, Jain and Hindu Art

UNIT 3

Temple Sculpture, Bronzes and Artistic Aspects of Indo-Islamic Architecture

Typography and Computer Applications

PART A - EMPLOYABILITY SKILLS

1. Communication Skills - III
2. Self-Management Skills - III
3. Information and Communication Technology Skills - III
4. Entrepreneurial Skills - III
5. Green Skills – III

PART B - SUBJECT SPECIFIC SKILLS

1. Unit 1: Typography
2. Unit 2: Keyboard Operations
3. Unit 3: Computer Hardware
4. Unit 4: Windows Operating System

5. Unit 5: Introduction To Office

6. Unit 6: MS Word