

## TERMWISE SYLLABUS (2023-24)

### CLASS – XII

#### ENGLISH TERM I

##### **Reader- Flamingo**

- 1) The Last Lesson
- 2) Lost Spring
- 3) Deep Water
- 4) The Rattrap
- 5) Poets and Pancakes
- 6) The Interview
- 7) My Mother at Sixty-Six (Poem)
- 8) Keeping Quiet (Poem)
- 9) A Thing of Beauty (Poem)
- 10) Aunt Jennifer's Tigers (Poem)

##### **Supplementary Reader- Vistas**

- 1) The Third Level
- 2) The Tiger King
- 3) Journey to the end of the Earth
- 4) The Enemy

##### **General English-Writing Skills**

- 1) Passages to assess comprehension
- 2) Notices, Invitation Writing (Formal/ Informal Invitations and Replies)
- 3) Letter to the Editor (giving suggestions or opinion on issues of public interest)
- 4) Application for a job with bio data or resume
- 5) Article Writing/ Report Writing, descriptive and analytical in nature, based on verbal inputs

#### TERM II

##### **Reader- Flamingo**

- 1) Indigo
- 2) Going Places
- 3) A Roadside Stand (Poem)

##### **Supplementary Reader- Vistas**

- 1) On the Face of It
- 2) Memories of Childhood
  - The Cutting of my Long Hair
  - We Too are Human Beings

### **General English- Writing Skills**

- 1) Passages to assess comprehension
- 2) Notices, Invitation Writing (Formal/ Informal Invitations and Replies)
- 3) Letter to the Editor (giving suggestions or opinion on issues of public interest)
- 4) Application for a job with bio data or resume
- 5) Article Writing/ Report Writing, descriptive and analytical in nature, based on verbal inputs

## **MATHEMATICS**

### **TERM I**

Chapter 1: Relations and Functions

Chapter 2: Inverse Trigonometric Functions

Chapter 3: Matrices

Chapter 4: Determinants

Chapter 5: Continuity and Differentiability

Chapter 6: Applications of Derivatives

Chapter 7: Integrals

Chapter 8: Application of Integrals

Chapter 9: Differential Equations

Chapter 12: Linear Programming Problems

### **TERM II**

Chapter 10: Vectors

Chapter 11: Three Dimensional Geometry

Chapter 13: Probability

## **APPLIED MATHEMATICS**

### **TERM I**

#### **Unit/Chapter**

Ch 1: Numbers, Quantification and Numerical Applications

Ch 2: Algebra

Ch 3a : Differentiation and it's applications

Ch 3b : Integration and its applications

Ch 6 : Index Number and Time based data

Ch 7 : Financial Mathematics

Ch 8 : Linear Programming Problems

### **TERM II**

Ch 3c : Differential Equations and Modelling

Ch 4 : Probability Distributions

Ch 5 : Inferential Statistics

## **PHYSICS**

### **TERM I**

Chapter 1 : Electric Charges and Fields

Chapter 2 : Electrostatic Potential and Capacitance

Chapter 3 : Current Electricity

Chapter 4 : Moving Charges and Magnetism

Chapter 5 : Magnetism and Matter

Chapter 6 : Electromagnetic Induction

Chapter 7: Alternating Current

Chapter 14: Semiconductor Electronics: Materials, Devices and Simple Circuits

### **TERM II**

Chapter 8 : Electromagnetic Waves

Chapter 9: Ray Optics

Chapter 10 : Wave Optics

Chapter 11 : Dual Nature of Matter and Radiation

Chapter 12: Atoms

Chapter 13 : Nuclei

## **CHEMISTRY**

## **TERM I**

Unit 1 : Solutions

Unit 2 : Electrochemistry

Unit 4 : d- and f- Block Elements

Unit 6 : Haloalkanes and Haloarenes

Unit 7 : Alcohols , Phenols and Ethers

Unit 8 : Aldehydes , Ketones and Carboxylic Acids

Unit 9 : Amines

## **TERM II**

Unit 3 : Chemical Kinetics

Unit 5 : Coordination Compounds

Unit 10 : Biomolecules

## **BIOLOGY**

### **TERM I**

#### **Unit VI: Reproduction**

Chapter 2: Sexual Reproduction in Flowering Plants

Chapter 3: Human Reproduction

Chapter 4: Reproductive Health

#### **Unit VII: Genetics and Evolution**

Chapter 5: Principles of Inheritance and Variation

Chapter 6: Molecular Basis of Inheritance

Chapter 7: Evolution

#### **Unit VIII: Biology and Human Welfare**

Chapter 8: Human Health and Disease

Chapter 10: Microbes in Human Welfare

#### **Unit IX: Biotechnology and its Applications**

Chapter 11: Biotechnology: Principles and Processes

Chapter 12: Biotechnology and its Applications

## **TERM II**

### **Unit X: Ecology and Environment**

Chapter 13: Organisms and Populations

Chapter 14: Ecosystem

Chapter 15: Biodiversity and its Conservation

## **COMPUTER SCIENCE**

### **TERM I**

Chapter 1: Python Revision Tour

Chapter 2: Python Revision Tour –II

Chapter 3: Working with Functions

Chapter 5: File Handling

Chapter 9: Data Structure –II : Stack

Chapter 10: Computer Networks -I

Chapter 11: Computer Networks -II

### **TERM II**

Chapter 12 : Relational Databases

Chapter 13: Simple Queries in SQL

Chapter 14: Table Creation and Data Manipulation Commands

Chapter 15: Grouping Records, Join in SQL

Chapter 16: Interface Python with Mysql

## **ECONOMICS**

### **TERM I**

#### **PART A: Introductory Macroeconomics**

Unit 1: National Income and Related Aggregates

Unit 2: Money and Banking

Unit 3: Determination of Income and Employment

Unit 4: Government Budget and the Economy

## **PART B: Indian Economic Development**

Unit 6: Development Experience (1947-90) and Economic Reforms since 1991

Unit 7: Current Challenges facing Indian Economy

- Human Capital Formation
- Rural Development
- Employment

## **TERM II**

### **PART A: Introductory Macroeconomics**

Unit 5: Balance of Payments

### **PART B: Indian Economic Development**

Unit 7: Current Challenges facing Indian Economy

- Sustainable Economic Development

Unit 8: Development Experience of India

## **ACCOUNTANCY**

### **TERM I**

#### **Part A: Accounting for Partnership firms and Companies**

##### **Unit 1-Accounting for Partnership Firms**

Ch-1 Accounting for Partnership Firms-Fundamentals

Ch-2 Goodwill:Nature and Valuation

Ch-3 Change in Profit Sharing Ratio among the Existing Partners

Ch-4 Admission of a Partner

Ch-5 Retirement of a Partner

Ch-6 Death of a Partner

Ch-7 Dissolution of a Partnership Firm

#### **Part B: Financial Statement Analysis**

##### **Unit 3:Analysis of Financial Statements**

Ch-1 Financial Statements of a Company

Ch-2 Financial Statement Analysis

Ch- Tools for Financial Statement Analysis

## **TERM II**

### **Part A: Accounting for Partnership firms and Companies**

#### **Unit 2: Accounting for Companies**

Ch-8 Accounting for Share Capital

Ch-9 Accounting for Debentures

### **Part B: Financial Statement Analysis**

#### **Unit 3: Analysis of Financial Statements**

Ch-3 Accounting Ratios

#### **Unit 4: Cash Flow Statement**

Ch-4 Cash Flow Statement

## **BUSINESS STUDIES**

### **TERM I**

#### Part A: Principles and Functions of Management

Ch-1 Nature and significance of management

Ch-2 Principles of management

Ch-3 Business environment

Ch-4 Planning

Ch-5 Organising

Ch-6 Staffing

Ch-7 Directing

Ch-8 Controlling

#### Part B: Business finance and marketing

Ch-9 Financial Management

### **TERM II**

Ch-10 Financial markets

Ch-11 Marketing

Ch-12 Consumer Protection

## **INFORMATICS PRACTICES**

## **TERM I**

Chapter 2 Data Handling using Pandas – I

Chapter 4 Plotting Data using Matplotlib

Chapter 5 Internet and Web

Chapter 6 Societal Impacts

## **TERM II**

Chapter 1 Querying and SQL Functions

Chapter 7 Project Based Learning

## **GEOGRAPHY**

### **TERM I**

#### **Fundamentals of Human Geography**

Unit I

Chapter 1 Human Geography

Unit II

Chapter 2 The World Population Density Distribution and Growth

Chapter 3 Human Development

Unit III

Chapter 4 Primary Activities

Chapter 5 Secondary Activities

Chapter 6 Tertiary and Quaternary Activities

Chapter 7 Transport, Communication and Trade

#### **India People and Economy**

Unit I

Chapter 1 Population Distribution Density Growth and Composition

Unit II

Chapter 2 Human Settlements

Unit III

Chapter 3 Land Resources and Agriculture



Chapter 4 Water Resources

Chapter 5 Mineral And Energy Resources

## **TERM II**

### **Fundamentals of Human Geography**

Unit III

Chapter 8 International Trade

### **India People and Economy**

Unit III

Chapter 6 Planning and Sustainable Development in Indian Context

Unit IV

Chapter 7 Transport and Communication

Chapter 8 International Trade

Unit V

Chapter 9 Geographical Perspective on selected issues

## **POLITICAL SCIENCE**

### **TERM I**

#### **PART A: Contemporary World Politics**

Chapter 1: The End of Bipolarity

Chapter 2: Contemporary Centres of Power

Chapter 3: Contemporary South Asia

Chapter 4: International Organisations

Chapter 5: Security in the Contemporary World

#### **Part B: Politics in India Since Independence**

Chapter 1: Challenges of Nation Building

Chapter 2: Era of One-Party Dominance

Chapter 3: Politics of Planned Development

Chapter 4: India's External Relations

Chapter 5: Challenges to and Restoration of the Congress

Chapter 6: The Crisis of Democratic Order

## **TERM II**

### **PART A: Contemporary World Politics**

Chapter 6: Environment and Natural Resources

Chapter 7: Globalisation

### **Part B: Politics in India Since Independence**

Chapter 7: Regional Aspirations

Chapter 8: Recent Developments in Indian Politics

## **PHYSICAL EDUCATION**

### **TERM I**

UNIT 1: Management of sporting events

UNIT 2: Children and women in sports

UNIT 3: Yoga as preventive measure for lifestyle disease

UNIT 4: Physical education and sports for children with special needs

UNIT 5: Sports and nutrition

UNIT 6: Test and measurement in sports

UNIT 7: Physiology and injuries in sports

### **TERM II**

UNIT 8: Biomechanics and sports

UNIT 9: Psychology and sports

UNIT 10: Training in sports

## **PSYCHOLOGY**

### **TERM I**

CHAPTER 1- Variations in Psychological Attributes

CHAPTER 2- Self and Personality

CHAPTER 3- Meeting Life Challenges

CHAPTER 4- Psychological Disorders

## **TERM II**

CHAPTER 5- Therapeutic Approaches

CHAPTER 6- Attitude and Social Cognition

CHAPTER 7- Social Influence and Group Processes

## **PAINTING**

### **TERM I**

Unit-1 The Rajasthani and Pahari Schools of Miniature Painting

(a) The Rajasthani School

(b) The Pahari School

Unit 2 The Mughal and Deccan Schools of Miniature Painting (16th Century AD to 19th Century A.D.)

(a) The Mughal School

(b) The Deccan School

### **TERM II**

Unit-3-

(a) The Bengal School of Painting and the Modern trends in Indian Art

Unit-3 (b) The Modern Trends in Indian Art

Appreciation of the following contemporary (Modern) Indian Art

Paintings:

(i) Rama Vanquishing the Pride of the Ocean – Raja Ravi Varma

(ii) Mother and child – Jamini Roy

(iii) Haldi Grinders - Amrita Sher Gill

(iv) Mother Teresa - M.F.Husain

(ii) Graphic - prints:

(i) Children – Somnath Hore

(ii) Devi – Jyoti Bhatt

(iii) Of Walls - Anupam Sud

(iv) Man, Woman and Tree - K. Laxma Goud

(iii) Sculptures:

(i) Triumph of Labour - D. P. Roychowdhury

- (ii) Santhal Family - RamkinkarVaij
- (iii) Cries Un - heard – Amar Nath Sehgal
- (iv) Ganesha - P.V. Janaki Ram.

