

# Syllabus for Class XII

## Session (2022-23)

### ENGLISH

#### BOOKS:

- 1) **FLAMINGO** - Course Book
- 2) **VISTAS** - Supplementary Reader

#### April:

##### **FLAMINGO –**

- (i) The Last Lesson
- (ii) My Mother at Sixty Six (Poem)

##### **VISTAS**

- (i) The Third Level

##### **WRITING SKILLS**

- (i) Notice

#### May:

##### **FLAMINGO**

- (i) The Lost Spring

#### July:

##### **FLAMINGO**

- (i) Deep Water
- (ii) Keeping Quiet (Poem)

##### **VISTAS**

- (i) Tiger King
- (ii) Journey to the end of the Earth

##### **WRITING SKILLS**

- (i) Notice
- (ii) Invitation and replies to invitation

#### August

##### **FLAMINGO**

- (i) The Rat Trap
- (ii) Aunt Jennifer's Tigers (Poem)
- (iii) Poets and Pancakes

## **VISTAS**

- (i) The Enemy
- (ii) On the face of it (Drama)

## **WRITING SKILLS**

- (i) Articles: Descriptive/ Argumentative

## **September**

### **FLAMINGO**

- (i) Indigo
- (ii) A Roadside stand (Poem)

## **WRITING SKILLS**

- (i) Letter to the Editor

## **October: FLAMINGO**

- (i) Going Places
- (ii) The Interview

## **VISTAS**

- (i) Memories of Childhood

## **WRITING SKILLS**

- (i) Magazine/Newspaper Report- Factual- narrative/ Reporting events/accidents
- (ii) Letter of Job Application with Biodata

## **November:**

- (ii) A Thing of Beauty (Poem)

## **December:**

Revision and Pre-Board Examination

## **PHYSICS**

### **April:**

Chapter 1: Electrostatics  
Chapter 2: Electrostatic Potential and Capacitance

### **June:**

Chapter 2: Electrostatic Potential and Capacitance(cont.)  
Chapter 3: Current Electricity

### **July:**

Chapter 4: Magnetic effects of current  
Chapter 5: Magnetic Properties of Materials  
Chapter 6: Electromagnetic Induction

**August:**

Chapter 7: Alternating Current

Chapter 8: Electromagnetic waves

Chapter 9: Ray optics

**September:** Chapter 9: Ray optics (contd.)

**October:**

Chapter 10: Wave optics

Chapter 11: Dual Nature of matter and radiation

Chapter 12: Atoms

**November:** Chapter 13: Nuclei

Chapter 14: Solids & semiconductor devices

**December:**

Revision

**CHEMISTRY****April:**

Solid State

Solutions

**May:**

Solutions(contd.)

Electrochemistry

Chemical Kinetics

**July:**

Haloalkanes and Haloarenes

Alcohols, Phenols and Ethers

**August:**

Aldehydes, Ketones and Carboxylic Acids

Amines

**September:** d- and f block elements

Coordination Compounds

**October:**

Biomolecules

**November:**

Revision

**December:**

Revision

**BIOLOGY**

**April:**

Sexual Reproduction in Flowering Plants

Human Reproduction

**May:**

Reproductive Health

Principles of Inheritance and Variation

**July:**

Molecular Basis of Inheritance

Evolution

Biotechnology - Principles and Processes

**August:**

Biotechnology and its Application

Human Health and Diseases

Microbes in Human Welfare

**September:**

Microbes in Human Welfare (continued)

**October:**

Organisms and Populations

**November:**

Ecosystem

Biodiversity and Conservation

**December:**

Revision

## COMPUTER SCIENCE

### **April:**

Database Management – RDBMS, Keys, DDL and DML, Aggregate Functions and Joins

### **May:**

Interface of Python with MYSQL database

### **July:**

Computational Thinking and Programming – Revision of python done in class XI, Functions

### **August:**

File Handling – Text and Binary File operations

### **September:**

CSV File and its operations, Using Python Libraries

### **October:**

Data Structures – Lists, Push and Pop using List and Project

### **November:**

Computer Networks – Evolution, Transmission Media, Network Devices, Topologies, Protocols, Networking security, Web Services

### **December:**

Revision

## INFORMATIC PRACTICES

### **April:**

Revision of Python done in class XI,

### **May:**

Data Handling using Pandas – Data structures in Pandas – Series and Data Frame

### **July:**

Importing and Exporting Data between CSV Files and Data Frames

### **August:**

Data Visualization – matplotlib – line plot, bar graph and histogram and PROJECT

**September:**

Introduction to Computer Networks – Devices, Topologies, Web site,  
Browser

**October:**

Database Query using SQL – Functions (String, Math, Date and Aggregate),  
Group by, Having and Order by

**November:**

Societal Impacts – Digital Footprints, IPR, Cyber Crime, India IT Act, E  
waste

**December:**

Revision

**MATHEMATICS****April:**

Matrices  
Determinants

**May:**

Relations and functions  
Inverse Trigonometric functions  
Linear programming  
Continuity and differentiability

**July:**

Continuity and differentiability TO BE CONTINUED  
Application of Derivatives

**August:**

Indefinite Integrals  
Definite Integrals

**September:**

Applications of Integrals

**October:**

Differential equations  
Vector Algebra

**November:**

Three dimensional geometry

Probability

**December:**

Probability TO BE COMPLETED

REVISION

## ACCOUNTANCY

**Part A: Accounting for Partnership Firms and Companies****April-- May:**

Accounting for Partnership Firms –Fundamentals

Valuation of goodwill using different methods

Reconstitution of Partnership: Admission of a partner

**July:**

Reconstitution of Partnership: Retirement and death of a partner

Change in the Profit Sharing Ratio among the existing partners

Dissolution of a partnership firm

**August:****Part B****Financial Statement Analysis**

Financial statements of a Company Analysis of Financial Statements:

Tools for Financial Statement Analysis:

Accounting Ratios: Meaning, Objectives, classification and computation

Cash Flow Statement --- Meaning, objectives and preparation

**September:** REVISION AND FIRST TERM EXAMINATION**October:**

Accounting for Share Capital: Accounting treatment of share capital transactions regarding issue of shares

Accounting treatment of forfeiture and reissue of shares.

Disclosure of share capital in the Balance Sheet of a company.

**November:**

Accounting for Debentures: accounting treatment of different categories of transactions related to the issue of debentures.

Issue of debentures with terms of redemption; debentures as collateral

security concept, interest on debentures

Redemption of Debentures: Meaning

PROJECT WORK

**December:**

REVISION

## **BUSINESS STUDIES**

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

**April - May:**

Unit 1: Nature and Significance of Management

Unit 2: Principles of Management

Unit 3: Business Environment

**PROJECT WORK**

**July:**

Unit 4: Planning

Unit 5: Organising

Unit 6: Staffing

**August:**

Unit 7: Directing

Unit 8: Controlling

Unit 12: Consumer Protection

**September:**

REVISION AND FIRST TERM EXAMINATION

**October:**

**Part B**

**Business Finance and Marketing**

Unit 9: Financial Management

Unit 10: Financial Markets

**November:**

Unit 11: Marketing Management

**PROJECT WORK COMPLETION**

**December:**

REVISION



## **ECONOMICS**

### **April & May:**

1. Development policies and experience (1947-1990)
2. Indian Economy 1950-1990
3. Economic Reforms since 1991
4. Money and Banking

### **July:**

Current Challenges Facing the Indian Economy

- i- Human capital formation
- ii- Rural Development

Government Budget and the Economy

### **August:**

National Income and Related Aggregates

What is Macro economics

Basic concepts Aggregates related to national income and measurement of national income.

### **September:**

Current Challenges Facing the Indian Economy

(iii) Employment

(iv) Environment and sustainable development

### **October:**

Determination of income and employment

- i- Consumption function
- ii- Saving and investment function
- iii- Aggregate demand and supply
- iv- Short run equilibrium
- v- Investment Multiplier
- vi- Problem of excess demand and deficient demand

### **November:**

Development experience of India

Balance of Payments

### **December:**

Completion of Project Work

## **PSYCHOLOGY**

### **April-May:**

1. Variations in Psychological Attributes
2. Self and Personality (to be contd.)

**July:**

2. Self and Personality
3. Meeting Life Challenges

**August:**

4. Psychological Disorders

**September:** Revision and First Term Exam

**October:**

5. Therapeutic Approaches.
6. Attitude and Social Cognition (to be contd.)

**November:**

7. Attitude and Social Cognition
8. Social Influence and Group Processes

**December:**

Revision

## **LEGAL STUDIES**

**April-May**

Judiciary and Topics of Law

**July:**

Arbitration, Tribunal and Adjudication and Alternate Dispute Resolution

**August:**

Human Rights in India

**September:**

Revision

- Legal Profession in India

**October:**

- Legal Services

**November:**

- International Context

**December:**

Revision

**POLITICAL SCIENCE**

**Book I - Contemporary world politics**

**April:**

- The End of Bipolarity
- New Centres of Power

**May:**

- Contemporary South Asia
- United Nations and Its Organization
- Security in Contemporary World

**July:**

- Environment and Natural Resources
- Globalization

**Book II - Politics in India Since Independence**

**July:**

- Challenges of Nation – Building
- Planned Development

**August:**

- India's Foreign Policy
- Parties and Party Systems in India
- Democratic Resurgence

**September:**

Revision

**October:**

- Regional Aspirations

**November:**

- Indian Politics: Trends and Developments

**December:**

Revision

## HINDUSTANI MUSIC MELODIC INSTRUMENTS

### 70% PRACTICAL & 30% THEORY

#### April & May:

**THEORY:** Brief study of the following: Gram, Murchhana, Varna, Alankar, Alaap, Tana, Gamak, Meend, Kan, Khatka, Murki, krintan, Zamzama, Ghaseet, Sut.

**PRACTICAL:** Description of Prescribed Talas along with Tala Notation with Thah, Dugun, Tigun and Chaugun of Taal Jhaptala & Roopak. Introduction of Raga- Bhairav , Razakhani Gat, Taan and Jhala.

#### July:

**THEORY:** Study of the following: Classification of Ragas- Ancient, Medieval and Modern. Detail study of the following: 1. Sangeet Ratnakar. Life sketch and Contribution of AlauddinKhan.

**PRACTICAL:** Description of Prescribed Talas along with Tala Notation with Thah, Dugun, Tigun and Chaugun of Taal Tilwada. Introduction of Raga- Bageshree- Razakhani Gat, Taan and Jhala.

#### August:

**THEORY:** Historical development of Time Theory of Ragas. Life sketch and Contribution of Inayat Khan, Mushtaq Ali Khan.

**PRACTICAL:** Description of Prescribed Talas along with Tala Notation with Thah, Dugun, Tigun and Chaugun in all three taals. Introduction of Raga Malkauns, Razakhani Gat, Taan and Jhala.

September: REVISION AND MID TERM

#### October:

**THEORY:** Critical study of prescribed Ragas along with recognizing Ragas from phrases of Swaras and elaborating them. Study of various parts and tuning of the Instrument opted for.

**PRACTICAL:** Introduction of raga Bhairav, Bageshree & Malkauns- Razakhani Gat, Taan and Jhala.

**November:** Revision, Maseetkhani Gat, Tode and rhythmic elaboration of individual student's choice Raga.

December: PRE BOARD AND REVISION

January: PREPARATION FOR EXTERNAL PRACTICAL

## HEALTH AND PHYSICAL EDUCATION

#### April:

Unit 1 - Management of Sporting Events

Practical – Game Skills

**May:**

Unit 2 - Children and women in sports  
Practical – Yoga Asanas

**July:**

Unit 3 - Yoga as Preventive Measure for Lifestyle Disease  
Unit 4 - Physical Education and Sports for CWSN  
Practical- Yoga Asanas for lifestyle Diseases

**August:**

Unit-5 Sports & Nutrition  
Unit-6 Test and measurement in sports  
Practical – Khelo India Fitness Test

**September:**

Revision

**October:**

Unit 7 - Physiology and Injuries in sports  
Unit 8 - Biomechanics and sports  
Practical - Volleyball/kho kho/ Athletics/Basketball

**November:**

Unit 9 - Psychology and sports  
Unit 10 - Training in sports  
Practical - Volleyball / Kho kho/ Yoga Asanas

**December:**

Revision and Pre-Board Exams.  
Revision for practical and File Work

**January:**

Practice for Practical Exams

**PAINTING**

**APRIL-** (a) The Rajasthani School:

1. Origin and Development
2. Sub-Schools-Mewar, Bundi, Jodhpur, Bikaner, Kishangarh and Jaipur
3. Main features of the Rajasthani School
4. Appreciation of the following Rajasthani paintings

<b>Title</b>	<b>Painter</b>	<b>Sub-School</b>
Maru-Ragini	Sahibdin	Mewar
Chaugan Players	Dana	Jodhpur
Krishna on swing	Nuruddin	Bikaner
Radha (Bani- Thani	Nihal Chand	Kishangarh
Bharat Meets Rama at Chitrakuta	Guman	Jaipur

**MAY-** The Pahari School:

1. Origin and development
2. Sub-Schools-Basohli, Guler, Kangra, Chamba and Garhwal
3. Main features of the Pahari School
4. Appreciation of the following Pahari paintings:

<b>Title</b>	<b>Painter</b>	<b>Sub-School</b>
Krishna with Gopis Nand, Yashoda	Manaku	Basohli
Krishna with Kinsmen Going to Vrindavana	Nainsukh	Kangra

**JULY-** The Mughal and Deccan Schools of Miniature Painting (16th Century AD to 19th Century

A.D.) (a) The Mughal School

1. Origin and development
2. Main features of the Mughal School
3. Appreciation of the following Mughal Paintings:

<b>Title</b>	<b>Painter</b>
Krishna Lifting Mount Govardhana	Miskin
Falcon on a Bird-Rest	Ustad Mansoor
Kabirand Raidas	Ustad Faquirullah Khan

**AUGUST-** The Deccan School-

1. Origin and development
2. Main features of the Deccan School
3. Appreciation on the Deccan paintings

**SEPTEMBER-** The Bengal School of Painting and the Modern trends in Indian Art (About the beginning to mid of the 20th Century)

(i) National Flag of India and the Symbolic significance of its forms and the colours.

(ii) Introduction to the Bengal School of Painting-

(1) Origin and development of the Bengal School of Painting

(2) Main features of the Bengal School of Painting

(iii) Appreciation of the following paintings of the Bengal school:

- (i) Journey's End – Abanindranath Tagore
- (ii) Shiv and Sati- Nandla Bose
- (iii) Radhika - M.A.R.Chughtai
- (iv) Meghdoot - Ram Gopal Vijaivargiya Contribution of Indian artists in the struggle for National Freedom Movement.

**OCTOBER-** The Modern Trends in Indian Art Appreciation of the following contemporary (Modern) Indian Art

- (i) Paintings: 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

**NOVEMBER-** 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 – Ramkinkar Vaij

(iii) Cries Un - heard – Amar Nath Sehgal

(iv) Ganesha - P.V. Janaki Ram

## **DECEMBER- REVISION**

## **YOGA**

### **April and May**

Unit 1 – Introduction to Yoga and Yogic Practices - II (Subject Specific Skills)

Practical

Unit 1 - Communication Skills – IV (Employability Skills)

### **July:**

Unit 2 – Introduction to Yoga Texts – II (Subject Specific Skills),

Practical

Unit 2-Self- Management Skills- – IV (Employability Skills)

### **Aug:**

Unit 2 – Introduction to Yoga Texts - II (Subject Specific Skills),

Practical

Unit 3 - Information and Communication Technology Skills – IV (Employability Skills)

### **Sep:**

Revision

### **Oct:**

Unit 3 – Yoga for Health Promotion – II (Subject Specific Skills) Practical

Unit 3 - Information and Communication Technology Skills – IV

### **Nov:**

Practical

Unit 3 - Information and Communication Technology Skills – IV

Unit 4 - Entrepreneurial Skills- IV

### **Dec:**

Practical

Unit 5 - Green Skills – IV



**Jan & Feb:**

Revision and Practical

**WORK EXPERIENCE**

**April:**

Intro to Word Processor

**May:**

Word Processor (Continued)

**July:**

Introduction to PowerPoint

**August:**

Introduction to Spreadsheet

**September:**

Revision & Assessment

**October:**

Spreadsheet (Continued)

**November:**

RDBMS

**December:**

Project Work