

Syllabus for Class XII

Session (2023-24)

ENGLISH

BOOKS:

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

TERM I

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

May:

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

CHEMISTRY

April:

Solutions

Electrochemistry

May:

Electrochemistry(continued)

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

Microbes in Human Welfare

Human Health and Diseases

September:

Human Health and Diseases (continued)

October:

Organisms and Populations

Ecosystem

November:

Biodiversity and Conservation

December:

Revision

BIOTECHNOLOGY

April:

Recombinant DNA Technology

May:

Genomics, Proteomics and Bioinformatics

July:

Genomics, Proteomics and
Bioinformatics(continued)Protein structure and
Engineering

August:

Protein structure and Engineering(continued)
Microbial Cell Culture and its Applications

September:

Microbial Cell Culture and its Applications (continued)

October:

Plant Cell Culture and Applications

November:

Animal Cell Culture and Applications

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:

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

December:

Revision

LEGAL STUDIES

April-May

Judiciary and Topics of Law(Business Laws)&(General Laws)

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
- Era of One-Party Dominance
- Politics of Planned Development

August:

- India's External Relations
- Challenges to and Restoration of the Congress System
- The Crisis of Democratic Order

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

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 - Khelo India Fitness Test

December:

Revision and Pre-Board Exams.

Revision for practical and File Work

January:

Practice for Practical Exams

PAINTING

April:

Rajasthani Painting:

1. Maru Ragni

2. Chaugan Players

3. Krishna On Swing
4. Radha {Bani Thani}
5. Bharat Meets Rama at Chitrakuta

May:

Pahari Schools:

1. Krishna with Gopis
2. Nand Yashoda Krishna Going to Vrindavan

Mughals Painting:

1. Krishna Lifting Mount
2. Govardhana
3. Falcon on a Bird Rest
4. Kabir and Raidas
5. Marriage Procession of Dara Shikoh.

July:

Deccan Schools:

1. Hazrat Nizammudin Auliya and Amir Khusro
2. Hyderabad Chand Bibi Playing Polo

August:

Bengal Schools:

1. Journey's End
2. Shiv and Sati
3. Radhika

September:

Revision of

1. Rajasthani Painting
2. Pahari Schools
3. Mughal Paintings
4. Deccan Schools
5. Bengali Schools

October:

Meghdoot:

1. Ancient Period: Rama Vanquishing the Pride of the Ocean

November:

Meghdoot:

1. Haldi Grinders
2. National Flag & Significance
3. Mother Teresa

December:

Graphics Prints:

1. Children
2. Men Women & Trees
3. Walls and Devi

January/ February: Revision of Meghdoot:

1. Mother and Child
2. Haldi Grinders
3. Mother Teresa
4. Graphic Prints

YOGA

Syllabus 2023-2024

April and May

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

Practical

Unit 1-Self- Management Skills- – IV (Employability Skills)

July:

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

Practical

Unit 2 - Information and Communication Technology Skills – IV (Employability Skills)

Aug:

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

Practical

Unit 2 - Information and Communication Technology Skills – IV (Employability Skills)

Sep:

Revision and Practical

Oct:

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

Unit 2 - Information and Communication Technology Skills – IV (Employability Skills)

Nov:

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

Unit 3 - Entrepreneurial Skills- IV

Dec:

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

Unit 3 - Entrepreneurial Skills- IV

Practical

Jan & Feb:

Revision and Practical

WORK EXPERIENCE

April:

Intro to Word Processor

May:

Word Processor (Continued)

July:

Introduction to Presentations

August:

Introduction to Spreadsheet

September:

Revision & Assessment

October:

Spreadsheet (Continued)

November:

Database Management Systems

December:

Project Work

CLASS 12TH (2022-23) 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

Title	Painter	Sub-School
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:

Title	Painter	Sub-School
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:

Title	Painter
Krishna Lifting Mount Govardhana	Miskin
Falcon on a Bird-Rest	Ustad Mansoor
Kabirand Raidas	Ustad Faquirullah Khan
Marriage Procession of Dara Shukoh	Haji Madni

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
- (V) 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