

Syllabus for Class XI

Session (2022-23)

ENGLISH

BOOKS:

Hornbill (Course Book)

Snapshots (Supplementary Reader)

JULY: Hornbill

1. The Portrait of a Lady (Prose)
2. A Photograph (Poem)

AUGUST: Hornbill

- (1) We're not Afraid to Die if We're Together

Snapshots

- (1) The Summer of the Beautiful White Horse (Prose)

Writing Task

- Poster
- Speech

Grammar –

- (1) Gap Filling (Tenses, Clauses)
- (2) Transformation of Sentences

SEPTEMBER: Hornbill

- (1) Discovering Tut

Snapshots

- (1) The Address (Prose)

Writing task

- (1) Note- Making & Summarizing **Grammar**

OCTOBER: Hornbill

- (1) The Adventure
- (2) Father to Son (Poem)

Snapshots

- (1) Birth (Prose)

Writing task

- (1) Debate
- (2) Note- Making & Summarizing

Grammar

- (1) Gap Filling (Tenses, Clauses)

NOVEMBER: Hornbill

(1) Silk Road

DECEMBER: Hornbill

(1) Childhood (Poem)

Snapshots

(1) Mother's Day (Play)

Writing task

(1) Classified Advertisement

Grammar

(1) Reordering Sentences

JANUARY: Snapshots

(1) The Laburnum Top (Poem)

Snapshots

(1) The Tale of the Melon City

(3) Note Making (Practice)

FEBRUARY: Hornbill

(1) Voice of the Rain (Poem)

PHYSICS**July:**

Physical World & Units and Measurements

Motion in a Straight Line

Motion in Plane

August:**Motion in Plane (contd)**

Laws of Motion

Work, Energy and Power

September: Revision

October:**Gravitation**

Rotational Motion

November:

Mechanics of Solids

Mechanics of Fluids

December:

Thermal Properties of Matter

Thermodynamics & Kinetic Theory of Gases

Oscillations

January:

Oscillations (contd.)

Waves

February: Revision

CHEMISTRY

July:

Some Basic Concepts of Chemistry

Structure of Atom

August:

Classification of Elements and Periodicity in Properties

Chemical Bonding and Molecular

Hydrocarbon

September:

Hydrocarbon(contd.)

October:

Chemical Thermodynamics

Redox Reaction

November:

Organic Chemistry

December:

Equilibrium

January:

Equilibrium(contd.)

Revision

February:

Revision

BIOLOGY

July-

The Living World

Biological Classification

Plant Kingdom

Animal Kingdom

August-

Morphology of Flowering Plants
Anatomy of Flowering Plants
Structural Organisation in Animals
Cell-The Unit of Life

September-

Cell Cycle and Cell Division

October-

Biomolecules
Photosynthesis in Higher Plants

November-

Cellular Respiration
Plant - Growth and Development
Breathing and Exchange of Gases

December-

Body Fluids and Circulation
Excretory Products and their Elimination
Locomotion and Movement
Neural Control and Coordination

January-

Chemical Coordination and Integration
Revision

BIOTECHNOLOGY

July:

Biotechnology: An Overview

August-September:

Biomolecules: Building Blocks

October:

Macromolecules: Structure & Function
Concepts of Genetics

November:

Genes and Genomes: Structure and Function

December:

The Basic Unit of Life

January:

Cell Growth and Development

COMPUTER SCIENCE

July:

Computer System and Organization – Architecture, Types of Software

Boolean Logic, Number System

Computational Thinking and Programming – Flow charts and Algorithm,

Introduction to Python

August:

Datatypes, Comments, Operators and types, Errors, conditional

Statements

September:

Conditional Statements contd. – if, if..else, if..elif, Iteration Statements –

while and for

October:

Strings Traversal Operations, Lists – Definition, traversal and methods

November:

Tuples and Dictionaries

December:

Introduction to Python Modules – math, random and statistics

January:

Society Law and Ethics – Cyber Safety, Appropriate use of Social

Networking Sites, IPR, Privacy Laws, Technology and society

INFORMATIC PRACTICES

July:

Introduction to Computer System – Architecture, Types of Software

Memory and Evolution of software devices

Introduction Python – Basics, Modes, Variables, data types, input and

Debugging, conditional Statement

August:

Iterative Statements – For and while

September:

Lists – Definition, traversal and methods

October:

Dictionaries – Definition, traversal and Methods

November:

Database Concepts and Structured Query Language – RDBMS and basic Concepts

December:

Introduction to MYSQL - DDL and DML Commands

January:

Introduction to Emerging Trends

MATHEMATICS

July

1. Sets
2. Relations & Functions
3. Trigonometric Functions

August

3. Trigonometric Functions TO BE CONTINUED
4. Complex Numbers and Quadratic Equations.
5. Linear Inequalities

September:

6. Limits and Derivatives
- Revision and first terminal examination

October:

7. Binomial Theorem
8. Sequence and Series

November:

9. Permutations and Combination
10. Straight Lines

December:

- 11. Conic Sections
- 12. Introduction to Three-dimensional Geometry
- 13. Statistics

January:

- 14. Probability

ACCOUNTANCY**July:****Part A: Financial Accounting-1**

- Theoretical Framework
- Introduction to Accounting
- Basic Accounting Terms
- Accounting Process
- Recording of Business Transactions:
Voucher and Transactions Source documents,
- Accounting Equation Approach:
Meaning and Analysis, Rules of Debit and Credit.

August:

- Goods and Services Tax (GST):
Characteristics and Objective
- Recording of Transactions: Books of Original Entry
- Journal and Posting to Ledger: Format, Posting from journal Balancing of
accounts and preparation of Trial Balance
- Simple GST calculation:
- Special Purpose books: Cash Book: Simple Cash Book with bank column
and petty cashbook;
- Purchases Book, Sales Book, Purchases Return Book, Sales Return Book
and Journal Proper, Posting from Subsidiary Books.

September:

- REVISION
- MID TERM EXAMINATION

October:

- Bank Reconciliation Statement: Need and preparation
- Depreciation, Provisions and Reserves

November:

- Theory Base of Accounting, Accounting Standards

System of Accounting. Basis of Accounting
Trial balance and Rectification of Errors

December:

Part B: Financial Accounting-II

Financial Statements of Sole Proprietorship:

Preparation of Trading and Profit and Loss account and Balance Sheet of
a sole proprietorship without adjustments

Preparation of Trading and Profit and Loss account and Balance Sheet of
a sole proprietorship with adjustments

PROJECT WORK

January:

REVISION

BUSINESS STUDIES

July:

Part A Foundations of Business

Unit 1: Evolution and Fundamentals of Business

Unit 2: Forms of Business Organisations and Formation of Company

August:

Unit 3: Public, Private and Global Enterprises

Unit 4: Business Services

Unit 5: Emerging Modes of Business

September:

REVISION

MID TERM EXAMINATION

October:

Unit 6: Social Responsibility of Business and Business Ethics

Part B Finance and Trade

Unit 7: Sources of Business Finance

November:

Unit 8: Small Business and Entrepreneurship Development

December:

Unit 9: Internal Trade

Unit 10: International Business

PROJECT WORK

January:

REVISION

ECONOMICS

July:

Introduction-Micro Consumer's Equilibrium and demand

i- Consumer's equilibrium

ii- Demand

iii- Elasticity of demand

Introduction-Statistics

i- What is Economics

ii- Meaning and scope

Collection and Organisation of data

i- collection of data

ii- Organisation of data

August:

Presentation of data

v- Tabular presentation

vi- Diagrammatic presentation

v- Graphic presentation

September:

Statistical tools and interpretation

i- Measures of central tendency - Mean

October:

Producer's Behaviour and supply

iii- Cost

iv- Revenue

v - Producer's Equilibrium

November:

Production function

Forms of market and price determination

i- Features of different markets

Statistical tools and interpretation

ii- Positional Averages and Partition Values

December:

Forms of market and price determination (continued)

- i- Features of different markets
- i-Market equilibrium under Perfect market

Measures of Correlation

January:

Introduction to Index Numbers

Preparation of a Project Report

PSYCHOLOGY

July:

1. What is Psychology?
2. Methods of Enquiry in Psychology (to be contd.)

August:

2. Methods of Enquiry in Psychology
3. Human Development

September:

Revision & Mid Term Exam

October:

4. Sensory, Attentional and Perceptual Processes

November:

5. Learning

December:

6. Human Memory
7. Thinking

January:

8. Motivation and Emotion

February:

Revision and Final Exam

LEGAL STUDIES

April, July

Unit 1: Introduction to Political Institutions

Unit 2: Basic Features of The Constitution of India

August

Unit 3: Jurisprudence, Nature and Sources of Laws

September

Revision

October

Unit 3: Historical Evolution of Indian Legal System

November

Unit 4: Judiciary: Constitutional, Civil And Criminal Courts And Processes

December

Unit 5: Family Justice System

Jan-Feb

(cont.) Family justice system

Case study & Revision

POLITICAL SCIENCE**PART-A: Indian Constitution at Work****July**

Chapter-1 Constitution

Chapter-3 Election and Representation

August

Chapter-4 The Executive

Chapter-5 The Legislature

Chapter-6 The Judiciary

September

Chapter-7 Federalism

Revision

PART-B: Political Theory**October:**

Chapter-1 Political Theory: An Introduction

Chapter-2 Liberty

November:

Chapter-3 Equality

Chapter-4 Justice

Chapter-5 Rights

December

Chapter-6 Citizenship

Chapter-7 Nationalism

January

Chapter-8 Secularism

February:

Revision

HINDUSTANI MUSIC MELODIC INSTRUMENTS- (30% Theory, 70% Practical)

July:

Theory: (Unit – 1.1, 4.1, 4.2) Brief study of the following: Nada, Shruti, Swara, Saptak, Thaata, Jati, Laya, Tala. Knowledge of the Structure of the Instrument opted for.

Practical: Alankars with fingering and strokes. Description of prescribed Talas along with Tala Notation- in Thah, Dugunand Chaugun Prescribed Talas- Teentala.

Theory: Brief study of the following: Margi- Desi, Nibaddha- Anibaddha Gan, Raga, Gat.

Practical: Description of prescribed Talas along with Tala Notation- in Thah, Dugunand Chaugun Ektaal. Introduction of Raga – Bihag and Razakhani Gat .

August:

Theory: Dhrupad , Maseetkhani and Razakhani Gat.

Practical: Description of prescribed Talas along with Tala Notation- in Thah, Dugunand Chaugun Prescribed Tala – Chautaal. Introduction of Raga Bhimpalasi and Razakhani Gat.

September: Revision and Mid- term

October:

Theory: Brief study of Musical Elements of NatyaShastra.

Practical: Description of prescribed Talas along with Tala Notation- in Thah, Dugunand Chaugun Prescribed Talas- Teentaal, Ektaal & Chautala.

Introduction of Raga Bhairavi and Razakhani Gat.

November:

Theory: Life sketch and Contribution of Tansen, V.N. Bhatkhande and V.DPaluskar.

Practical: Raga- Bihag, Bhimpalasi, Bhairavi- Taan and Jhala.

December:

Theory: Critical study of prescribed Ragas along with Recognizing Ragas from phrases of Swaras and elaborating them. Writing in Notation the Compositions of prescribed Ragas

Practical: Raga- Bihag , Bhairavi & Bhimpalasi Taan and Jhala.

January: Theory: Elaboration and Revision of all the Ragas and Taals.

February: Evaluation.

HEALTH AND PHYSICAL EDUCATION

July:

Unit 1 - Changing Trends and Career in Physical Education

Unit 2- Olympism

Practical - Physical Fitness Components

August:

Unit 3 – Yoga

Unit 4 - Physical Education for CWSN

Practical - Yoga Asanas

September:

Unit 5- Physical Fitness, Health and Wellness

Revision

October:

Unit 6 - Test and Measurement

Unit 7- Fundamentals of Anatomy, Physiology in sports

Practical - Record File - Physical Fitness evaluation

November:

Unit 8 - Fundamentals of Kinesiology and biomechanics in Sports

Unit 9 - Psychology and sports

Practical – Fitness Activities

December:

Unit 10 - Training and doping in sports

Practical - Physical Fitness - Games Skills

Jan. & Feb.:

Revision

Practical - exam

PAINTING

APRIL- A. Pre-Historic Rock-Paintings Introduction

1) Period and Location

2) Study and appreciation of following pre-historic paintings:

I. Wizard's Dance, Bhimbethaka

MAY- B. Introduction

1) Period and Location.

2) Extension: In about 1500 miles.

i. Harappa & Mohenjo-Daro (Now in Pakistan)

ii. Ropar, Lothal, Rangpur, Alamgirpur, Kali Bangan, Banawali and Dholavira (in India)

JULY- Study and appreciation of following:

Sculptures and Terra cottas:

i. Dancing girl (Mohenjo-Daro) Bronze, 10.5 x 5 x 2.5 cm. Circa 2500 B.C. (Collection: National Museum, New Delhi).

ii. Male Torso (Harappa) Red lime Stone, 9.2 x 5.8 x 3 CMS. Circa 2500 B.C. (Collection: National Museum, New Delhi)

iii. Mother Goddess (Mohenjo-Daro) terracotta, 22 x 8 x 5 c Circa 2500 B.C. (Collection: National Museum, New Delhi).

AUGUST- Study and appreciation of following Seal:

I. Bull (Mohenjo-Daro) Stone (Steatite), 2.5 x 2.5 x 1.4 cm. Circa 2500 B.C. (Collection: National Museum, New Delhi).
Decoration on earthen wares: Painted earthen-ware (Jar) Mohenjo-Daro (Collection: National Museum, New Delhi).

SEPTEMBER- Buddhist, Jain and Hindu Art (3rd century B.C. to 8th century A.D.)

1. General Introduction to Art during Mauryan, Shunga, Kushana (Gandhara and Mathura styles) and Gupta period:

2. Study and appreciation of following Sculptures:

I. Lion Capital from Sarnath (Mauryan period) Polished sandstone, Circa 3rd Century B.C. (Collection: Sarnath Museum, U.P.)

II. Chauri Bearer from Didar Ganj (Yakshi) (Mauryan period) Polished sandstone Circa 3rd Century B.C. (Collection: Patna Museum, Bihar)

III. Seated Buddha from Katra Mound, Mathura-(Kushan Period Mathura Style) Red-spotted Sand Stone, Circa 3rd Century AD. (Collection: Govt. Museum, Mathura)

IV. Jain Tirathankara (Gupta period) Stone Circa 5th Century A.D. (Collection: State Museum, Lucknow U.P.)

3. Introduction to Ajanta Location Period, no of caves, Chaitya and Vihara, paintings and sculptures, subject matter and technique etc.

OCTOBER- Temple Sculpture, Bronzes and artistic aspects of Indo-Islamic Architecture

(A) Artistic aspects of Indian Temple sculpture (6th Century A.D. to 13th Century A.D.)

1) Introduction to Temple Sculpture (6th Century A.D. to 13th Century A.D.)

2) Study and appreciation of following Temple-Sculptures:

i. Descent of Ganga (Pallava period, Mahabalipuram, Tamil Nadu), granite rock Circa 7 th Century A.D.

ii. Trimuti (Elephanta, Maharashtra) Stone Circa 9th Century A.D.

iii. Lakshmi Narayana (Kandariya Mahadev Temple) (Chandela period, Khajuraho, Madhya Pradesh) Stone Circa 10th Century A.D.

iv. Cymbal Player, Sun Temple (Ganga Dynasty, Konark, Orrisa) Stone Circa 13th Century A.D.

v. Mother and Child (Vimal-Shah Temple, Solanki Dynasty, Dilwara, Mount Abu; Rajasthan) white marble, Circa 13th Century A.D.

NOVEMBER- Bronzes:

1. Introduction to Indian Bronzes.

2. Method of casting (solid and hollow)

3. Study and appreciation of following South Indian Bronze:

i. Nataraj (Chola period Thanjavur Distt.,Tamil Nadu) 12th Century A.D. (Collection : National Museum, New Delhi)

DECEMBER-Artistic aspects of the indo-Islamic architecture:

1. Introduction

2. Study and appreciation of following architecture: i. Qutub Minar, Delhi

ii. Gol Gumbad of Bijapur

YOGA

July:

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

Practical

Unit 1 - Communication Skills – III (Employability Skills)

August:

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

Practical

Sep:

Revision

Oct:

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

Practical

Unit 3 - Information and Communication Technology Skills – III

Nov:

Practical

Unit 3 - Information and Communication Technology Skills – III

Unit 4 - Entrepreneurial Skills- III

Practical

Unit 5 - Green Skills – III

Jan & Feb:

Revision and Practical

WORK EXPERIENCE

July:

Graphics & Layout Techniques

August:

Logo Designing & Typography

September:

Project Work

October:

Vector Designing using Power point

November:

Presentations and Motion Graphics

December:

Professional Office - Word Processor

January:

Professional Office – Word Processor Contd.

February:

Project Work