

BAL BHARATI PUBLIC SCHOOL, ROHINI

ACADEMIC SESSION (2023-24)

TERMWISE SYLLABUS

CLASS-XI

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Note : This document must be read alongwith Senior School Curriculum issued by CBSE for Class XII (2023-24). For any discrepancy/clarification , kindly refer your query to the respective subject teacher.

SUBJECT – ENGLISH CORE

SUBJECT CODE: – 301

Syllabus to be covered in Term I (April 2023- August 2023)

HORNBILL

The Portrait of a lady

A Photograph (Poem)

SNAPSHOTS

The Summer of the Beautiful White Horse

GRAMMAR

Determiners & Tenses

WRITING SKILLS

Poster Making

Speech Writing

Note Making & Summary Writing

Syllabus to be covered in Term II (September 2023- November 2023)

HORNBILL

We're not afraid to die ..if we are together

Discovering Tut: The Saga continues

The Laburnum Top (Poem)

The Voice of the rain (Poem)

Childhood (Poem)

SNAPSHOTS

The Address

Mother's Day

GRAMMAR

Reordering n Transformation of sentences

WRITING SKILLS

Debate

Syllabus to be covered in Term III (December 2023 – February 2024)

HORNBILL

The Adventure

The Ailing Planet
Silk Road
Father to Son (Poem)

SNAPSHOTS

Birth
The Tale of Melon City
The Ghat of the only World

GRAMMAR

Integrated Grammar Practice

WRITING SKILLS

Classified Advertisements

Note: For details of the pattern of Question paper, kindly refer to the CBSE Curriculum 2023-24 for English Core (301), Class XI

SUBJECT: MATHEMATICS

SUBJECT CODE: 041

Syllabus to be covered in Term I (April 2023- August 2023)

1. Chapter 1 – Sets
2. Chapter 2 – Relations and functions
3. Chapter 3 – Trigonometric functions
4. Chapter 4 – Complex Numbers and Quadratic Equations
5. Chapter 5 – Linear Inequalities

Syllabus to be covered in Term II (September 2023- November 2023)

1. Chapter 6 – Permutations and Combinations
2. Chapter 9 – Straight lines
3. Chapter 10 – Conic Sections
4. Chapter 11 – Introduction to Three Dimensional Geometry
5. Chapter 12 – Limits and Derivatives

Syllabus to be covered in Term III (December 2023 – February 2024)

1. Chapter 7 – Binomial Theorem
2. Chapter 8 – Sequence and series
3. Chapter 13 – Statistics
4. Chapter 14 – Probability

SUBJECT- PHYSICS

SUBJECT CODE: - 042

Syllabus to be covered in Term I (April 2023- August 2023)

Unit 1.Physical World and Measurement

Unit 2.Kinematics

Unit 3.Laws of Motion

Syllabus to be covered in Term II (September 2023- November 2023)

Unit 4.Work, Energy and Power

Unit 5.Motion of System of Particles and Rigid Body

Unit 6.Gravitation

Unit 7.Properties of Bulk Matter

Syllabus to be covered in Term III (December 2023 – February 2024)

Unit 8. Thermodynamics

Unit 9.Behaviour of Perfect Gases and Kinetic Theory of Gases

Unit 10.Oscillations and Waves

Note : For details of chapters and topics under these Units, kindly refer CBSE curriculum 2023-24 for Class XI Physics (code 042).

SUBJECT -CHEMISTRY

SUBJECT CODE- 043

Syllabus to be covered in Term I (April 2023- August 2023)

Ch1: Some Basic Concepts of Chemistry

Ch2: Structure Of atom

Ch3: Classification of elements and Periodicity in properties

Syllabus to be covered in Term II (September 2023- November 2023)

Ch4: Chemical Bonding and Molecular structure

Ch5: Chemical Thermodynamics

Ch6: Equilibrium

Syllabus to be covered in Term III (December 2023 – February 2024)

Ch7: Redox reactions

Ch8: Organic Chemistry: Some basic principles and techniques

Ch9: Hydrocarbons

SUBJECT - BIOLOGY

SUBJECT CODE : 044

Syllabus to be covered in Term I (April 2023- August 2023)

Unit-III Cell: Structure and Function

Chapter-8: Cell-The Unit of Life

Chapter-9: Biomolecules

Chapter-10: Cell Cycle and Cell Division

Unit-V Human Physiology

Chapter-17: Breathing and Exchange of Gases

Chapter-18: Body Fluids and Circulation

Chapter-19: Excretory Products and Their Elimination

Chapter-20: Locomotion and Movement

.Chapter-21: Neural Control and Coordination

Chapter-22: Chemical Coordination and Integration

Syllabus to be covered in Term II (September 2023- November 2023)

Unit-II Structural Organization in Animals and Plants

Chapter-5: Morphology of Flowering Plants

Chapter-6: Anatomy of Flowering Plants

Chapter-7: Structural Organization in Animals

Unit-IV Plant Physiology

Chapter-13: Photosynthesis in Higher Plants

Chapter-14: Respiration in Plants

Chapter-15: Plant - Growth and Development

Syllabus to be covered in Term III (December 2023 – February 2024)

Unit-I Diversity of Living Organisms

Chapter-1: The Living World

Chapter-2: Biological Classification

Chapter-3: Plant Kingdom

Chapter-4: Animal Kingdom

Complete syllabus covered during Term I ,II and III will be included in Annual Exams.

PRACTICALS

As per CBSE curriculum

SUBJECT: COMPUTER SCIENCE

SUBJECT CODE: - (083)

Syllabus to be covered in Term I (April 2023- August 2023)

Unit I: Computer Systems and Organization

Unit II: Computational Thinking and Programming – I

Familiarization with the basics of Python programming:

Knowledge of data types

Operators

Expressions

Syllabus to be covered in Term II (September 2023- November 2023)

Flow of control

Strings:

Lists

Tuples

Syllabus to be covered in Term III (December 2023 – February 2024)

Dictionary

Introduction to python modules

Unit III: Society, Law and Ethics

SUBJECT: ACCOUNTANCY

SUBJECT CODE: 055

Syllabus to be covered in Term I (April 2023- August 2023)

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: Rules of Debit and Credit

Ch 7: Origin of Transactions- Source Documents and Preparation of Vouchers

Ch 8: Journal

Ch 9: Ledger

Syllabus to be covered in Term II (September 2023- November 2023)

Ch 10: Special Purpose Book I: Cash Book

Ch 11: Special Purpose Book II: Other Books

Ch 12: Accounting for Goods and Services Tax

Ch 13: Bank Reconciliation Statement

Ch 14: Trial Balance

Ch 15: Depreciation

Ch 16: Provisions and Reserves

Syllabus to be covered in Term III (December 2023 – February 2024)

Ch 17: Rectification of Errors

Ch 18: Financial Statements of Sole Proprietorship

Ch 19: Adjustments in Preparation of Financial Statements

Ch 20: Accounting from Incomplete Records- Single Entry System

SUBJECT: ECONOMICS

SUBJECT CODE: 030

Syllabus to be covered in Term I (April 2023- August 2023)

STATISTICS:

Unit 1: Introduction

Chapter 1: Economics – An Introduction

Chapter 2: Scope & Importance of Statistics

Unit 2: Collection, Organisation & Presentation of data

Chapter 3: Collection of data

Chapter 4: Organisation of data

Chapter 5: Tabular Presentation of data

MICRO ECONOMICS:

Unit 4: Introduction

Unit 5: Consumer's Equilibrium & Demand

- Ordinal Approach to Consumer Equilibrium
- Cardinal Approach to Consumer Equilibrium
- Demand
- Elasticity of Demand

Unit 6: Producer behaviour & Supply

- Supply
- Elasticity of supply

Syllabus to be covered in Term II (September 2023- November 2023)

MICRO ECONOMICS:

Unit 6: Producer behaviour & Supply (Continued)

- Production function
- Cost

- Revenue
- Producer's Equilibrium

STATISTICS:

Unit 2: Collection, Organisation & Presentation of data (Continued)

Chapter 6: Diagrammatic Presentation

Chapter 7: Graphic Presentation

Unit 3: Statistical Tools & Interpretation

Chapter 8 & 9: Measures of Central Tendency – Mean, Mode & Median

Syllabus to be covered in Term III (December 2023 – February 2024)

STATISTICS:

Unit 3: Statistical Tools & Interpretation (Contd.)

Chapter 11: Measures of Correlation

Chapter 12: Index Numbers

MICRO ECONOMICS:

Unit 7: Forms of Market & Price Determination

- * Perfect Competition & its features
- * Price determination
- * Simple Applications

SUBJECT: BUSINESS STUDIES

SUB CODE: 054

Syllabus to be covered in Term I (April 2023- August 2023)

Chapter 1 Business, trade and commerce

Chapter 2 Forms of business organisations

Chapter 7 Formation of a company

Chapter 3 Private, public and global enterprises

Chapter 4 Business services

Syllabus to be covered in Term II (September 2023- November 2023)

Chapter 5 Emerging modes of business

Chapter 6 Social responsibility of business and business ethics

Chapter 8 Sources of business finance

Chapter 9 Msme and business entrepreneurship

Syllabus to be covered in Term III (December 2023 – February 2024)

Chapter 10 Internal trade

chapter 11 International business

SUBJECT: POLITICAL SCIENCE

SUBJECT CODE: 028

Syllabus to be covered in Term I (April 2023- August 2023)

INDIAN CONSTITUTION AT WORK

1. Constitution why and how
2. Rights in the construction
3. Election and representation
4. Executive

POLITICAL THEORY

1. Political theory: an introduction
2. Freedom
3. Equality
4. Social justice

Syllabus to be covered in Term II (September 2023- November 2023)

INDIAN CONSTITUTION AT WORK

1. Legislature
2. Judiciary
3. Federalism

POLITICAL THEORY

1. Rights
2. Citizenship

Syllabus to be covered in Term III (December 2023 – February 2024)

INDIAN CONSTITUTION AT WORK

1. Local governments
2. Constitution as a living document

3. Philosophy of the Indian constitution

POLITICAL THEORY

1. Nationalism
2. Secularism

SUBJECT: HISTORY

SUBJECT CODE: 027

Syllabus to be covered in Term I (April 2023- August 2023)

1. Writing & city life
2. Empire across three continents
3. Nomadic empires

Syllabus to be covered in Term II (September 2023- November 2023)

4. The three orders
5. Changing cultural traditions

Syllabus to be covered in Term III (December 2023 – February 2024)

6. Displacing indigeneous people
7. Paths to modernisation

SUBJECT- PSYCHOLOGY

SUBJECT CODE- 037

Syllabus to be covered in Term I (April 2023- August 2023)

Chapter 1- What is psychology?

Chapter 2- Methods of enquiry in psychology

Syllabus to be covered in Term II (September 2023- November 2023)

Chapter 4- Human Development

Chapter 5- Sensory, attentional and perceptual processes

Chapter 6- Learning

Syllabus to be covered in Term III (December 2023 – February 2024)

Chapter 7- Human memory

Chapter 8- Thinking

Chapter 9- Motivation and Emotion

For further details regarding design of question paper and chapter-wise weightage, refer to cbse official website.

SUBJECT- INFORMATICS PRACTICES

SUBJECT CODE- 065

Syllabus to be covered in Term I (April 2023- August 2023)

Unit 3: Database concepts and the Structured Query Language

Database Concepts: Introduction to database concepts and its need, Database Management System.

Relational data model: Concept of domain, tuple, relation, candidate key, primary key, alternate key

Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL, creating a database using MySQL, Data Types

Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER

Data Query: SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL

Data Manipulation: INSERT, DELETE, UPDATE

Unit 4: Introduction to the Emerging Trends

Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.

Syllabus to be covered in Term II (September 2023- November 2023)

Unit 2: Introduction to Python

Basics of Python programming, Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of

operators, precedence of operators, data types, mutable and immutable data types, statements, expressions, evaluation and comments, input and output statements, data type conversion, debugging.

Control Statements: if-else, if-elif-else, while loop, for loop

Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions – len(),list(),append(),insert(), count(),index(),remove(), pop(), reverse(), sort(), min(),max(),sum()

Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions – dict(), len(), keys(), values(), items(), update(), del(), clear()

Syllabus to be covered in Term III (December 2023 – February 2024)

Unit 1: Introduction to Computer System

Introduction to computer and computing: evolution of computing devices, components of a computer system and their interconnections, Input/output devices.

Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns.

Software: purpose and types – system and application software, generic and specific purpose software.

SUBJECT: PHYSICAL EDUCATION

SUBJECT CODE- 048

Syllabus to be covered in Term I (April 2023- August 2023)

Unit 1. Changing Trends & Career in Physical Education

Unit 2. Olympic Value Education

Unit 3. Yoga

Syllabus to be covered in Term II (September 2023- November 2023)

Unit 4. Physical Education & Sports for CWSN (Children with Special Needs - Divyang)

Unit 5. Physical Fitness, and Wellness

Unit 6. Test, Measurement & Evaluation

Unit 7. Fundamentals of Anatomy, Physiology in Sports

Syllabus to be covered in Term III (December 2023 – February 2024)

Unit 8. Fundamentals of Kinesiology and Biomechanics in Sports

Unit 9. Psychology & Sports

Note:As per the CBSE curriculum 2023-24 for Physical Education (code 048)

Physical Education Department bbpsrh 2023-24

SUBJECT-PAINTING

SUBJECT CODE-049

Syllabus to be covered in Term I (April 2023- August 2023)

- Principle of Art & Design element of Art
- Unit- I

Pre-historic Rock Paintings & Art of Indus Valley

Syllabus to be covered in Term II (September 2023- November 2023)

Unit- II

- Buddhist, Jain & Hindu Art.

Syllabus to be covered in Term III (December 2023 – February 2024)

Unit-III

- Temple Sculptures, Bronzes & Indo- Islamic Architecture