

CLASS XI
SYLLABUS (2026-2027)

ENGLISH CORE(301)

APRIL

Hornbill: The Portrait of A Lady

Poem: A Photograph

Snapshots: The Summer of the Beautiful White Horse

Reading: Unseen Comprehension

MAY

Snapshots: The Summer of the Beautiful White Horse (cont.)

Writing: Advertisement

Grammar: Tenses

JULY

Hornbill: We're Not Afraid to Die If We Can Be Together

Poem: The Voice of the Rain

Grammar: Transformation of sentences

Writing: Poster Designing

Reading: Note Making

AUGUST

Hornbill: Discovering Tut: The Saga Continues, The Adventure

Snapshots: The Address

Writing: Speech

Poem: The Laburnum Top

SEPTEMBER

Revision/Mid Term Examination

OCTOBER

Poem: Father to Son

Snapshots: Mother's Day, Birth

Grammar: Clauses

Writing: Debate

Reading: Unseen Comprehension

NOVEMBER

Hornbill: Childhood (Poem)

Grammar: Reordering of Sentences, Transformation of Sentences (cont.)

Writing: Debate Writing

Reading: Note-making

DECEMBER

Hornbill: The Silk Road

Snapshots: The Tale of Melon City

Grammar: Integrated Grammar, Reordering of Sentences

JANUARY AND FEBRUARY

Grammar: Integrated Grammar, Reordering of Sentences

Reading: Note-making

REVISION & COMPLETION OF PRACTICAL & PROJECT WORK

PHYSICS(042)

APRIL

Chapter 1: Units and Measurement

Chapter 2: Motion in a Straight Line

MAY

Chapter 3: Motion in a Plane

Practical 1: To measure the diameter of small spherical/cylindrical body and to measure internal diameter and depth of given beaker/calorimeter using Vernier Callipers and hence to find its volume.

JULY

Chapter 4: Laws of Motion

Chapter 5: Work, Energy and Power

Practical 2: To measure the diameter of given wire and the thickness of given sheet using a screw gauge.

Practical 3: To determine the volume of an irregular lamina using Screw gauge.

AUGUST

Chapter 6: System of Particles and Rotational Motion

Chapter 7: Gravitation

Practical 4: To determine the radius of curvature of a given spherical surface by a Spherometer.

Practical 5: To determine the mass of two different objects using a beam balance.

SEPTEMBER

Revision/Mid Term Examination

OCTOBER

Chapter 8: Mechanical Properties of Solids

Chapter 9: Mechanical Properties of Fluids

Chapter 10: Thermal Properties of Matter

Practical 6: Using a simple pendulum, plot its $L-T^2$ graph and use it to find the effective length of the second's pendulum.

NOVEMBER

Chapter 11: Thermodynamics

Chapter 12: Kinetic Theory

Practical 7: To study the variation of the time period of a simple pendulum of a given length by taking bobs of the same size but different masses and interpreting the result.

DECEMBER

Chapter 13: Oscillations

Chapter 14: Waves

Practical 8: To find the force constant of a helical spring by plotting a graph between load and extension.

Practical 9: To study the relationship between the temperature of a hot body and time by plotting a cooling curve.

JANUARY AND FEBRUARY

REVISION & COMPLETION OF PRACTICAL & PROJECT WORK

CHEMISTRY (043)

APRIL

Unit 1: Some basic concepts of chemistry

Unit 2: Atomic structure

Practical 1:- Bending of Glass Rod

Practical 2:- Preparation of standard solution of Oxalic acid solution.

MAY

Unit 2: Atomic structure

Unit 3: Periodic classification

Unit 4: Chemical Bonding and Molecular Structure

Practical3:-Titration of NaOHvs Oxalic acid.

Practical4:-Preparation of standard solution of Sodium Carbonate.

Practical5:- Titration of Na_2CO_3 vsHCl.

JULY

Unit5: Chemical thermodynamics

Unit6: Equilibrium

Practical 6:- Salt Analysis (To find out one acidic and one basic radicals in given salt).

Practical 7:- Salt Analysis (To find out one acidic and one basic radicals in given salt).

Practical 8:- Salt Analysis (To find out one acidic and one basic radicals in given salt).

SEPTEMBER

Revision/Mid Term Examination

OCTOBER-

Unit7: Redox Reactions

Unit8: Organic Chemistry – Some Basic Principles and Techniques

Practical 9:- Salt Analysis (To find out one acidic and one basic radicals in given salt).

Practical 10:- Salt Analysis (To find out one acidic and one basic radicals in given salt).

Practical 11:- Salt Analysis (To find out one acidic and one basic radicals in given salt).

NOVEMBER

Unit9: Hydrocarbons

Practical 12:- Crystallisation of CuSO_4 salt solution.

DECEMBER

Unit9: Hydrocarbons

JANUARY-FEBRUARY

REVISION & COMPLETION OF PRACTICALS & PROJECT WORK

BIOLOGY(044)

APRIL

Chapter 1: The Living World

Chapter 2: Biological Classification

MAY

Chapter 3: Plant Kingdom

Chapter 4: Animal Kingdom

Practicals:

1. Parts of a compound microscope.

2. Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.

3. Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.

JULY

Chapter 5: Morphology of Flowering Plants

Chapter 6: Anatomy of Flowering Plants

Chapter 7: Structural Organisation in Animals

Chapter 8: Cell: The Unit of Life

Practicals:

1. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).

AUGUST

Chapter 9: Biomolecules

Chapter 14: Breathing and Exchange of Gases

Chapter 15: Body Fluids and Circulation

Practicals:

1. Preparation and study of T.S. of dicot and monocot roots and stems (primary).
2. Types of inflorescence (cymose and racemose).

SEPTEMBER

Revision/Mid Term Examination

OCTOBER

Chapter 10: Cell Cycle and Cell Division

Chapter 11: Photosynthesis in Higher Plants

Chapter 16: Excretory Products and their Elimination

Practicals:

1. Mitosis in onion root tip cells and animal's cells (grasshopper) from permanent slides.
2. Test for presence of urea in urine.
3. Test for presence of sugar in urine.

4. Test for presence of albumin in urine.
5. Test for presence of bile salts in urine.

NOVEMBER

Chapter 12: Respiration in Plants

Chapter 17: Locomotion and Movement

Chapter 18: Neural Control and Coordination

Practicals:

1. Human skeleton and different types of joints with the help of virtual images/models only.
2. Study of osmosis by potato osmometer.
3. Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb).
4. Study of distribution of stomata on the upper and lower surfaces of leaves.
5. Comparative study of the rates of transpiration in the upper and lower surfaces of leaves.

DECEMBER

Chapter 13: Plant Growth and Development

Chapter 19: Chemical Coordination and Integration

Practicals:

1. Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials.
2. Separation of plant pigments through paper chromatography.
3. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.

JANUARY-FEBRUARY

REVISION & COMPLETION OF PRACTICAL & PROJECT WORK

MATHEMATICS(041)

APRIL

Chapter 1: Sets

Chapter 2: Relations & Functions

ACTIVITY 1: To find the number of subsets of given sets verify that if a set has number of elements, then the total number of subsets is 2^n .

ACTIVITY 2: Differentiate between Relations and Functions.

MAY

Chapter 3: Trigonometric Functions

ACTIVITY 3: To verify the relation between the degree measure and the radian the measure of an angle.

JULY

Chapter 4: Complex Numbers and Quadratic Equation

ACTIVITY 4: To identify a relation and a function

AUGUST

Chapter 5: Linear Inequalities Linear inequalities.

Chapter 6: Permutations and Combinations

ACTIVITY 5: To plot the graphs of $\sin x$, $\sin 2x$, $2\sin x$ and $\sin 2x$, using same coordinate axes.

SEPTEMBER

Revision/Mid Term Examination

OCTOBER

Chapter 7: Binomial Theorem

Chapter 8: Sequence and Series Sequence and Series.

Chapter 9: Straight Lines

ACTIVITY 6: To demonstrate that the Arithmetic mean of two different positive number is always greater than the Geometric mean.

Chapter 10: Conic Sections

Chapter 11: Introduction to Three-dimensional Geometry

ACTIVITY 7: To construct a parabola

ACTIVITY 8: To find the values of sine and cosine function $\sin$ Second, third and fourth quadrants using their given values in first quadrant.

DECEMBER

Chapter 12: Limits and Derivatives.

ACTIVITY 9: To find analytically $\lim_{x \rightarrow c} \frac{x^2 - c^2}{x - c}$

JANUARY

Chapter 13: Statistics

Chapter 14: Probability

ACTIVITY 10: To write the sample space, when a coin is tossed once, two times, three times, four times.

JANUARY-FEBRUARY

REVISION & COMPLETION OF PRACTICAL & PROJECT WORK

ACCOUNTANCY (055)

APRIL

1. Introduction of Accounting

2. Basic Accounting Terms

MAY

*Fundamentals of Journal Entries

3. Theory Base of Accounting, Accounting Standards and Indian Accounting Standards (Ind-AS)

JULY

- 4. Bases of Accounting
- 5. Accounting Equation
- 6. Accounting Procedures- Rules of Debit and credit
- 7. Origin of Transactions- Source Documents and Preparation of Vouchers

AUGUST

- 8. Journal
- 9. Ledger
- 10. Special Purpose Books – Cash Book & Other Books

SEPTEMBER

Revision/Mid Term Examination

OCTOBER

- 11. Accounting of Goods & Services Tax (GST)
- 12. Bank Reconciliation Statement
- 13. Trial Balance

NOVEMBER

- 14. Depreciation
- 15. Provisions and Reserves
- 16. Rectification of Errors

DECEMBER

- 17. Financial Statements of Sole Proprietorship
- 18. Adjustments in Preparation of Financial Statements

JANUARY

- 19. Accounts from Incomplete Records- Single Entry System

JANUARY-FEBRUARY

REVISION & COMPLETION OF PRACTICAL & PROJECT WORK

BUSINESS STUDIES (054)

APRIL

Unit 1: Evolution and Fundamentals of Business

MAY

Unit 2: Forms of Business organizations

JULY

Unit 3: Public, Private and Global Enterprises

Unit 4: Business Services

AUGUST

Unit 5: Emerging Modes of Business

SEPTEMBER

Revision/Mid-Term Examination

OCTOBER

Unit 6: Social Responsibility of Business and Business Ethics

Unit 7: Sources of Business Finance

NOVEMBER

Unit 8: Small Business and Enterprises

DECEMBER

Unit 9: Internal Trade

JANUARY

Unit 10: International Trade

JANUARY-FEBRUARY

REVISION & COMPLETION OF PRACTICAL & PROJECT WORK

ECONOMICS (030)

APRIL

Demand & Elasticity of Demand

Introduction

MAY

Collection of Data

JULY

Introduction

Consumer Equilibrium

AUGUST

Organization of Data

Measure of Central Tendency

Mean

SEPTEMBER

Revision/Mid Term examination

OCTOBER

Production Function

Cost

Mode & Median

NOVEMBER

Revenue
Producer Equilibrium
Supply

DECEMBER

Main forms of Market
Price Determination

JANUARY

Correlation
Index Number

JANUARY-FEBRUARY

REVISION & COMPLETION OF PRACTICAL & PROJECT WORK

PSYCHOLOGY (037)

APRIL

Unit I Understanding Psychology

MAY

Unit II Methods of Enquiry in Psychology
Project Work

JULY

Unit III Human Development

AUGUST

Unit IV Sensory, Attentional and Perceptual Processes

SEPTEMBER

Revision / Mid Term Examination

OCTOBER

Unit V- Learning
Experiment 1- To assess how people organize words in their memory.

NOVEMBER

Unit VI Human Memory
Experiment 2- To assess how the attention span of the participant.

DECEMBER

Unit VII Thinking

JANUARY

Unit VIII Motivation and Emotion

JANUARY-FEBRUARY

REVISION & COMPLETION OF PRACTICAL & PROJECT WORK

COMPUTER SCIENCE(083)

APRIL

Ch-2 Data Representation

Ch-3 Boolean Logic

Ch- 5 Getting Started With Python

Practical: Installing Python, Basic Input and output operations on Python Idle

MAY

Ch-6 Python Fundamentals

Ch-7 Data Handling

Ch-8 Introduction to Python Modules

Practical: Print Command, Data Types , In built function s , Input / Output

JULY

Ch-9 Flow of Control

Ch-10Strings Manipulation

Ch-11 Lists Manipulation

Practical :Conditional Statements ,Loops , Various operations on List and String

AUGUST

Ch-12 Tuples

Ch-1 Computer System Organization

Practical: Operations on Tuple

SEPTEMBER

Revision/Mid Term Examination

OCTOBER

Ch-13 Dictionary

Practical: Operations on Dictionary

NOVEMBER

Chapter -14Cyber Safety

Chapter-15 Society Law and ethics

Practical: Operations on List, Tuple, Dictionary

DECEMBER

Ch-4 Introduction to Problem Solving

JANUARY-FEBRUARY

REVISION & COMPLETION OF PRACTICAL & PROJECT WORK

ARTIFICIAL INTELLIGENCE(843)

APRIL

Unit 1 - Introduction: Artificial Intelligence for everyone (Part B)

Practical: Python Programming (Basic Input / Output)

MAY

Unit 1: Communication Skills-III (PART A)

Practical: Python Programming (Data types, Numpy Modules)

JULY

Unit 2 – Unlocking your Future in AI

Unit 3 – Python Programming

Practical: Python Programming (Statistical Modules ,Numpy)

AUGUST

Unit 1 : Communication Skills-III (PART A)

Unit 2 : Self-Management Skills-III (PART A)

Practical: Python Programming (Numpy Modules , statistical Modules)

SEPTEMBER

Revision/ Mid Term Examination

OCTOBER

Unit 4 – Introduction to Capstone Project

Unit 5 – Data Literacy – Data Collection to Data Analysis

Practical: Python Programming (Pandas)

NOVEMBER

Unit 3 : ICT Skills-III (Part A)

Unit 5 : Green Skills-III (Part A)

Practical: Python Programming (Pandas , CSV Files)

DECEMBER

Unit 6 – Machine Learning Algorithms

Unit 7 – Leveraging Linguistics and Computer Science

Practical: Python Programming (Revision on all topics)

JANUARY-FEBRUARY

Unit 8 – AI Ethics and Values(PART B)

Unit 4 : Entrepreneurial Skills-III (PART A)

REVISION & COMPLETION OF PRACTICAL & PROJECT WORK

PHYSICAL EDUCATION(048)

APRIL

Unit-I Changing Trends & Career in Physical Education

MAY

Unit II Olympic value Education

JULY

Unit III Yoga

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

AUGUST

Unit V Physical Fitness, Health, and Wellness

SEPTEMBER

Revision/ Mid Term Examination

OCTOBER

Unit VI Test, Measurement & Evaluation

NOVEMBER

Unit VII Fundamentals of Anatomy, Physiology in Sports

DECEMBER

Unit-VIII Fundamentals of Kinesiology and Biomechanics in Sports

Unit-IX Psychology & Sports

JANUARY - FEBRUARY

Unit-X Training and Doping in Sports

REVISION & COMPLETION OF PRACTICAL & PROJECT WORK

PAINTING(049)

APRIL

Unit 1-Pre-Historic Rock-Paintings

Period and Location

Study and Appreciation of structures in Bronze and Terra cottas

MAY

Study and appreciation of seal

Practical- Nature and object study

JULY

Buddhist, Jain and Hindu Art

Study and appreciation of following Sculptures.

AUGUST

Introduction to Ajanta Location

Practical-Painting Composition (Imagination based)

SEPTEMBER

Revision/Mid Term Examination

OCTOBER-NOVEMBER

Unit 2- Temple Sculpture, Bronzes and artistic aspects of Indo- Islamic Architecture

Artistic aspects of Indian Temple sculpture Period: 6th Century CE to 13th Century CE

DECEMBER-JANUARY

Bronzes

Artistic aspects of the Indo-Islamic architecture

Practical-Portfolio Assessment

FEBRUARY

REVISION & COMPLETION OF PRACTICAL & PROJECT WORK