

SYLLABUS

SESSION 2026-2027

CLASS XII

ENGLISH CORE(301)

APRIL

Flamingo - The Last Lesson, Lost Spring
Poetry - My Mother at Sixty - six
Vistas - The Third Level
Writing - Notice, Letter to the Editor

MAY

Flamingo - Deep Water
Poetry - Keeping Quiet
Vistas - The Tiger King
Writing- Invitation and Reply

JULY

Flamingo - The Rattrap
Poetry - Aunt Jennifer's Tigers
Vistas - The Enemy, Memories of Childhood (Part 1)
Writing - Job Application

AUGUST

Flamingo - The Interview(Part-I,II), Indigo
Poetry - Thing of Beauty
Vistas - Memories of Childhood (Part 2), Journey to the End of the Earth
Writing– Article

SEPTEMBER

Revision / Mid Term Examination

OCTOBER

Flamingo - Poets and Pancakes, Going Places
Poetry - A Roadside Stand
Vistas - On the Face of it
Writing - Report

NOVEMBER - JANUARY

Revision of the syllabus and Practical

PHYSICS(042)

APRIL

Unit 1: Electrostatics
Chapter 1: Electric Charges and Fields
Chapter 2: Electrostatic Potential and Capacitance

MAY

Unit 2: Current Electricity
Chapter 3: Current Electricity

Practicals:

1. To determine resistivity of two wires by plotting a graph for potential difference versus current.
2. To find resistance of a given wire / standard resistor using metre bridge.

JULY

Unit 3: Magnetic Effects of Current and Magnetism

Chapter 4: Moving Charges and Magnetism

Chapter 5: Magnetism and Matter

Unit 4: Electromagnetic Induction and Alternating Currents

Chapter 6: Electromagnetic Induction

Chapter 7: Alternating Current

Practicals:

1. To find the value of v for different values of u in case of a concave mirror and to find the focal length.
2. To find the focal length of a convex mirror, using a convex lens.

AUGUST

Unit 5: Electromagnetic Waves

Chapter 8: Electromagnetic Waves

Unit 6: Optics

Chapter 9: Ray Optics and Optical Instruments

Chapter 10: Wave Optics

Practicals:

1. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$.
2. To find the focal length of a concave lens, using a convex lens.
3. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.

SEPTEMBER

Revision / Mid Term Examination

OCTOBER

Unit 7: Dual Nature of Radiation and Matter

Chapter 11: Dual Nature of Radiation and Matter

Unit 8: Atoms and Nuclei

Chapter 12: Atoms

Chapter 13: Nuclei

Unit 9: Electronic Devices

Chapter 14: Semi conductor Electronics: Materials, Devices and Simple Circuits

Practicals:

1. To verify the laws of combination (series) of resistances using a metre bridge.
2. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.

NOVEMBER–JANUARY

1. Discussion of case based and competency based problems
2. Mock Tests
3. Revision for Pre Boards and Practical Examinations

CHEMISTRY(043)

APRIL

Unit6: Haloalkanes and Haloarenes

Unit7: Alcohols, Phenols, Ethers (HALF)

Practicals:

1. Preparation of Standard Solution of Oxalic Acid
2. Titration of KMnO_4 vs Oxalic Acid
3. Salt Analysis

MAY

Unit7: Alcohols, Phenols, Ethers (HALF)

Unit8: Aldehydes, ketones and carboxylic Acids

Practicals:

1. Preparation of Standard Solution of Mohr's Salt
2. Titration of KMnO_4 Vs Mohr's Salt
3. Salt Analysis

JULY

Unit9: Amines

Unit1: Solutions

Practical:

1. Salt Analysis

AUGUST

Unit 2: Electrochemistry

Unit 3: Chemical kinetics

Practicals:

1. Detection of Functional Groups
2. Detection of Carbohydrates, Fats, Proteins in Given Food Samples.
3. Chromatography

Preparation of Inorganic Compounds (Alum)

SEPTEMBER

Revision / Mid Term Examination

OCTOBER

Unit 4: d- and f Block elements

Unit 5: Coordination Compounds

Unit 10: Biomolecules

Sample Papers For Chapters of Book1 And Book2

Revision For Preboard 1 And Preboard 2

Practical: Revision of All Practicals

NOVEMBER- JANUARY

Preboards and Practical Exam

BIOLOGY(044)

APRIL

Chapter 1: Sexual Reproduction in Flowering Plants

Chapter 2: Human Reproduction

Chapter 3: Reproductive Health

Practicals:

1. Prepare a temporary mount to observe pollen germination.
2. Pollen germination on stigma through a permanent slide or scanning electron micrograph.

3. Identification of stages of gamete development, i.e., T.S. of testis and a T.S. of ovary through permanent slides (from grasshopper/mice).
4. T.S. of blastula through permanent slides(Mammalian).

MAY

Chapter 4: Principles of Inheritance and Variation

Chapter 5: Molecular Basis of Inheritance

Practicals:

1. Flowers adapted to pollination by different agencies (wind, insects, birds).
2. Meiosis in onion bud cell or grasshopper testis through permanent slides.
3. Mendelian inheritance using seeds of different colour/sizes of any plant.
4. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness.

JULY

Chapter 6: Evolution

Chapter 7: Human Health and Disease

Chapter 8: Microbes in Human Welfare

Practicals:

1. Common disease causing organisms like *Ascaris*, *Entamoeba*, *Plasmodium*, any fungus causing ringworm through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause.
2. Models specimen showing symbiotic association in root nodules of leguminous plants, *Cuscuta* on host, lichens.
3. Flash cards models showing examples of homologous and analogous organs.
4. Prepare a temporary mount of onion root tip to study mitosis.
5. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.

AUGUST

Chapter 9: Biotechnology - Principles & Processes

Chapter 10: Biotechnology and its Applications

Practicals:

1. Controlled pollination-emasculatation,tagging and bagging.

SEPTEMBER

Revision / Mid Term Examination

OCTOBER

Chapter11: Organisms and Populations

Chapter12: Ecosystem

Chapter13: Biodiversity and Conservation

Practicals:

1. Study the plant population density by quadrat method.
2. Study the plant population frequency by quadrat method.

NOVEMBER-JANUARY

Full Syllabus Revision and Pre Board

Pre Boards and Practical Exam

MATHEMATICS(041)

APRIL

Chapter 3: Matrices

Chapter 4: Determinants

Chapter 1: Relations and Functions

Practicals:

Activity 1: To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m) : l \perp m\}$ is symmetric but neither reflexive nor transitive.

Activity 2: To demonstrate a function which is one-one but is onto.

MAY

Chapter 2: Inverse Trigonometric Functions

Chapter 5: Continuity and Differentiability

Practicals:

Activity 3: To sketch the graph a^x and $\log a_x$, $a > 0$, $a \neq 1$ and to examine that they are mirror images of each other.

Activity 4: To find analytically the limit of the function $f(x)$ at $x=c$ and also to check the continuity of the function at that point.

JULY

Chapter 6: Applications of Derivatives

Chapter 7: Integrals

Chapter 8: Applications of the Integrals

Practicals:

Activity 5: To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner.

Activity 6: To understand the concepts of decreasing and increasing functions.

AUGUST

Chapter 9: Differential Equations

Chapter 10: Vectors

Practicals:

Activity 7: To understand the concept of absolute maximum and minimum values of a function in a given closed interval through its graph.

Activity 8: To verify that amongst all the rectangles of the same perimeter, the squares have the maximum area.

SEPTEMBER

Revision / Mid Term Examination

OCTOBER

Chapter 11: Three-dimensional Geometry

Chapter 12: Linear Programming

Chapter 13: Probability

Practicals:

Activity 9: To verify that angles in a semi-circle is a right angle, using vector method.

Activity 10: To explain the computation of conditional probability of a given event A , when event B has already occurred, through an example of throwing a pair of dice.

NOVEMBER – JANUARY

Pre board 1 & Pre board 2

Revision of the Syllabus and Practical

ACCOUNTANCY(055)

APRIL

PART - A: Accounting for Partnership Firms

Unit1: Introduction To Partnership: Fundamentals

Unit2: Methods of Goodwill Valuation

MAY

Unit3: Change in Existing Profit Sharing Ratio (PSR)

Unit4: Admission of A Partner

#Projectwork

JULY

Unit 5 & 6: Retirement and Death of A Partner

Unit7: Dissolution of A Partnership Firm

AUGUST

Part B: Analysis of Financial Statements

Unit1 & 2: Financial Statements: Analysis & Tools

PART A: Accounting for Companies

Unit7: Accounting for Share Capital

Unit 8: Accounting for Debentures

SEPTEMBER

Revision / Mid Term Examination

OCTOBER

Part B: Analysis of Financial Statements

Unit3: Accounting Ratios

Unit4: Cash Flow Statement

NOVEMBER - JANUARY

Completion of project work and Revision

Pre Boards

BUSINESS STUDIES(054)

APRIL

Part A: Principles and Functions of Management

Unit1: Nature and Significance of Management

Unit2: Principles of Management

MAY

Unit3: Business Environment

Unit4: Planning

Project Work as per CBSE Guidelines.

JULY

Unit5: Organising

Unit6: Staffing

Unit7: Directing

AUGUST

Unit8: Controlling

Part B: Business Finance and Marketing

Unit9: Financial Management

Unit 10: Financial Markets

SEPTEMBER

Revision / Mid Term Examination

OCTOBER

Unit11: Marketing Management

Unit12: Consumer Protection

NOVEMBER DECEMBER AND JANUARY

Completion of project work and Revision

Pre Boards

ECONOMICS(030)

APRIL

Macro Economics

Unit 2: Money and Banking

Unit 4: Government Budget and the Economy

Indian Economy

Unit6: Indian Economy on the eve of Independence

MAY

Macro Economics

Unit 1: National Income and Related Aggregates

Indian Economy

Unit 6: Development Experience(1947-90)

#Projectwork

JULY

Macro Economics

Unit 5: Balance of Payments

Indian Economy

Unit 6:DevelopmentExperience (1947 90)andEconomicReformssince1991

AUGUST

Macro Economics

Unit 5: Balance of Payments Foreign Exchange Rate

Indian Economy

Unit 7: HumanCapitalFormation

Ruraldevelopment

Employment

SEPTEMBER

Revision / Mid Term Examination

OCTOBER

Macro Economics

Unit 3: Determination of Income and Employment

Indian Economy

Unit 7: Sustainable Economic Development.

Unit 8: Development Experience of India – A Comparison with Neighbours

NOVEMBER - JANUARY

Completion of project work and Revision

Pre Boards

PSYCHOLOGY(039)

APRIL

Unit I Variations in Psychological Attributes

Practical 1- Maudsley Personality Inventory (MPI)

MAY

Unit II Self and Personality

Unit III Meeting Life Challenges

Practical 2- Self Concept Questionnaire (SCQ)

JULY

Unit IV Psychological Disorders

Practical 3- Sinha Comprehensive Anxiety Test (SCAT)

Development of case profile

AUGUST

Unit V Therapeutic Approaches

Unit VI Attitude and Social Cognition

Practical 5- Raven's Standard Progressive Matrices

Practical 4- Adjustment Inventory for School Students

SEPTEMBER

Revision / Mid Term Examination

OCTOBER

Unit VII Social Influence and Group Processes

Practicals:

A. Development of case profile: Using appropriate methods like interview, observation & psychological tests.

B. Test administration: Students are required to administer and interpret five psychological tests related to various psychological attributes like intelligence, aptitude, attitude, personality, etc.

C. In the Practical examination, the student will be required to administer and interpret two psychological tests.

NOVEMBER - JANUARY

Completion of project work and Revision

COMPUTER SCIENCE(083)

APRIL

Chapter-1PythonRevisionTour
Chapter-2PythonRevisionTour-II
Chapter -3 Functions
Chapter-10RelationalDatabases

Practical

List , Tuple , Dictionary, Functions

MAY

Chapter-11:SimpleQueriesinSQL
Chapter-12:Table Creation and Data Manipulation Commands
Chapter 13: Grouping Records, Joins in SQL
Chapter 14: Interface Python with My SQL

Practical

MY SQL Queries, MySQL Connectivity

JULY

Chapter -6 File Handling

Practical

Text File Handling, Binary File Handling, CSV File Handling

AUGUST

Chapter 4 Using Functions Defined in Modules
Chapter -5 Exception Handling
Chapter -7 Data Structures

Practical

1. Importing Modules (Random Module, Math Module, Statistics Module)
2. General Built in Python Exceptions, Handling Multiple Errors
3. Linear List Arrays, Stack

SEPTEMBER

Revision / Mid Term Examination

OCTOBER

Chapter -8 Computer Network-1
Chapter -9 Computer Network-2

Practical

Recap all the lab activities

NOVEMBER DECEMBER AND JANUARY

Completion of project work and Revision
Pre Boards and Practical Exam

ARTIFICIAL INTELLIGENCE(843)

APRIL

Unit 1: Python Programming - II (Part B)
Unit 2: Data Science Methodology: An Analytic Approach to Capstone Project (Part B)

Activity/Practicals:

Import and Export Data between CSV Files and DataFrames.

MAY

Unit 2: Data Science Methodology: An Analytic Approach To Capstone Project(PART B) Cont...

Unit 1: Communication Skills-IV (PART A)

Unit 5: Green Skills (PART A)

Activity/Practicals:

Implement Linear Regression algorithm on Python IDE.

JULY

Unit3: Making Machines See (PART B)

Unit 5: Introduction To Big Data And Data Analytics (PART B)

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

Activity/Practicals:

Binary Art - Recreating Images with 0s and 1s

Creating a Website Containing an ML Model

AUGUST

Unit7: Generative AI (PART B)

Unit8: Data Storytelling (PART B)

Unit4: Entrepreneurial Skills-IV (PART A)

Activity/Practicals:

Working with OpenCV to load, display and resize images

SEPTEMBER

Revision / Mid Term Examination

OCTOBER

Unit4: Alwith Orange Data Mining Tool (Part B)

Unit 6: Understanding Neural Networks (Part B)

Unit 3: ICT Skills-IV

Activity/Practicals:

1. Load and visualize the Iris dataset using Scatter Plot and other widgets.
2. Use classification widgets
3. Evaluating the Classification Model with Orange
4. Computer Vision with Orange
5. Natural Language Processing with Orange

NOVEMBER - JANUARY

Preboard Examinations and Practicals

PHYSICAL EDUCATION(048)

APRIL

Unit 1:Management of Sporting Events

Unit2: Children & Women in Sports

MAY

Unit4: Physical Education and Sports for CWSN (Children with Special Needs - Divyang)

Unit5: Sports & Nutrition

JULY

Unit8: Biomechanics and Sports

Unit10: Training in Sports

AUGUST

Unit3: Yoga as Preventive measure for Lifestyle Disease

Unit6: Test & Measurement in Sports

SEPTEMBER

Revision / Mid Term Examination

OCTOBER

Unit7: Physiology & Injuries in Sport

Unit9: Psychology and Sports

DECEMBER AND JANUARY

Revision of complete syllabus

PAINTING(049)

APRIL

Unit 1: The Miniature Painting Tradition (16th Century A.D. to 19th Century A.D.)

Rajasthani School:

Pahari School:

Practical

Unit 1: Nature and Object Study

MAY

Mughal School:

Deccani School

Practical

Unit 1: Nature and Object Study

JULY

Unit 2: The Bengal School and Cultural Nationalism

Practical

Unit 2: Painting Composition

AUGUST

Modern Trends in Indian Art:

Practical

Unit 2: Painting Composition

SEPTEMBER

Revision/Mid Term Examination

OCTOBER

The Living Art Traditions of India:

Practical

Portfolio Assessment

Revision of complete syllabus

NOVEMBER - JANUARY

Revision of complete syllabus

Submit (all art work) portfolio

Pre Boards and Practical