DON BOSCO SCHOOL OODLABARI

CLASS : XI

SYLLABUS

ACADEMIC SESSION

2026-27

DON BOSCO SCHOOL, OODLABARI

Syllabus - Class: XI

Academic Session 2026 - 27

SUBJECT: VALUE EDUCATION

COURSE OBJECTIVES

1. Develop self-awareness and self-reflection: Identify personal strengths, weaknesses, and values.
2. Apply moral principles in daily life: Make informed decisions based on ethical values.
3. Cultivate empathy and compassion: Understand and respect diverse perspectives and cultures.
4. Enhance interpersonal skills: Improve communication, conflict resolution, and relationships.
5. Foster critical thinking and problem-solving: Analyse issues and make informed decisions.
6. Promote emotional intelligence and well-being: Manage emotions, stress, and build resilience.
7. Understand social responsibilities: Recognize duties and responsibilities as a citizen.

LEARNING OUTCOMES

1. Develop self-awareness and self-reflection Understand personal values, strengths, and weaknesses.
2. Understand and apply moral principles: Learn to make informed decisions based on ethical values.
3. Cultivate empathy and compassion: Develop understanding and respect for diverse perspectives and cultures.
4. Improve relationships and communication: Enhance interpersonal skills and conflict resolution techniques.
5. Develop responsible citizenship: Understand rights, duties, and social responsibilities.
6. Promote emotional intelligence and well-being: Manage emotions, stress, and build resilience.

TERM – 1

Half Yearly Examination: (50 Marks)

Chapter 1 Building a Growth Mindset (April)
Chapter 2 The Power of Positive Thinking (May)
Chapter 3 Mental Health and Well-Being (May)
Chapter 4 Managing your anger (May)
Chapter 5 Positive Communication Skills (June)
Chapter 6 Sexual Health and consent (June)
Chapter 7 Managing Independence (July)
Chapter 8 Career Planning and Future Goals (July)
Chapter 9 Leadership and Teamwork (August)

TERM – 2

Final Examination: (50 Marks)

Chapter 10. Respect, Sensitivity, and Inclusion in Diversity (September)
Chapter 11. Social Media and Mental Health (October)
Chapter 12. Cyberbullying and Online Etiquette (October)
Chapter 13. Dealing with Peer Comparison (November)
Chapter 14. Body Shaming and Body Positivity (November)
Chapter 15. Volunteering and Community Service (December)
Chapter 16. Self-Respect and Dignity (December)
Chapter 17. Balancing Personal and Academic Life (January)

CATECHISM

COURSE OBJECTIVES

Students understand the core teachings of Jesus, Learn Moral and spiritual values related and reflect Biblical teachings to personal faith formation and ethical decision making

LEARNING OUTCOMES

Analyze significant events:
Apply Biblical principles by demonstrating understanding of humility, Forgiveness, service and faithfulness in real life situations.
Show personal reflection on spiritual growth and moral responsibility.

TERM – 1

Half Yearly Examination: (50 Marks)

Le 101 The parable of the rich man and Lazarus
Le 102 The parable of the Pharisee and the tax collector
Le 103 the Lord's Prayer
Le 104 Jesus' glorious entry into Jerusalem
Le 105: Jesus washes the feet of his disciples
Le 106; The last supper
Le 107 Jesus' agony in the garden
Le 108 The kiss of Judas
Le 109 Peter denies Jesus
Le 110 Jesus before Caiaphas

TERM – 2

Final Examination: (50 Marks)

1. Add Chapter/Lesson…
2. Le 111 Jesus before Pilate
3. Le 112 Jesus is crowned with thorns
4. Le 113 The way of the cross
5. Le 114 The death of Jesus on the Cross
6. Le 115 The resurrection of Jesus

7. Le 116 Jesus appears to Mary Magdalene
8. Le 117 Jesus appears to his apostles
9. Le 118 The Ascension of Jesus

10. Le 119 The descent of the Holy Spirit
11. Le 130 Religious Freedom

SUBJECT: ENGLISH LANGUAGE

COURSE OBJECTIVES

1. Language Proficiency: To enhance students' proficiency in English, focusing on reading, writing, speaking, and listening skills.
2. Critical Thinking: To develop critical thinking and analytical skills through working on composition, comprehension and writing exercises.
3. Effective Communication: To foster effective communication skills, enabling students to express their ideas clearly and coherently in both spoken and written forms.
4. Grammar and Composition: To strengthen understanding of grammar and composition, enhancing students' ability to construct well-structured sentences and paragraphs.

LEARNING OUTCOMES:

1. Demonstrate Language Skills: Exhibit improved language skills in reading, writing, speaking, and listening, with a focus on clarity and coherence.
2. Analyse Texts: Analyse and interpret a variety of texts, identifying themes and the author's purpose.
3. Engage in Discussions: Participate in discussions confidently, articulating personal opinions and supporting arguments with relevant examples.
4. Write Effectively: Produce well-organized essays, letters, reports, and creative pieces that reflect a strong command of language and structure.
5. Apply Grammar Rules: Apply grammar rules accurately in both written and spoken English, demonstrating an understanding of syntax, punctuation, and style.

TERM – 1

Continuous Assessment-1: (10 Marks)
Grammar: Transformation of sentences, prepositions and tenses.

C. A. 2 (10 marks)
Proposal writing

Unit Test – 1: (30 Marks)

1. Directed writing - a) newspaper report: an accident, natural calamity, official functions, and events.
   b) Book review
2. Functional Grammar

Half Yearly Examination: (80 Marks

1. Composition - Narrative, Descriptive, Reflective, Discursive, Argumentative, Story writing.
2. Proposal writing
3. Directed writing - Speech writing, Article writing
4. Functional Grammar
5. Comprehension

Internal Assessment: Project / Practical Work (20 Marks)

1. What are the gender roles ascribed by society to men and women. Do you see a disparity in the treatment of men and women in your society?
2. Design a poster to create awareness about Gender Equality.

TERM – 2

Continuous Assessment-3: (10 Marks)

1. Proposal writing

Continuous Assessment -4: (10 Marks)

1. Summary writing

Unit Test – 2: (30 Marks)

1. Comprehension
2. Functional Grammar

Final Examination: (80 Marks

1. Composition
2. Directed writing - Blogs, S. O. P., Personal Profile
3. Proposal writing
4. Functional Grammar
5. Comprehension

Internal Assessment: Project / Practical Work (20 Marks)

1. "We fight for our rights but forget our duties." Bring out the implications of this statement giving your own views.
   Design an invitation card for your parents' 25th Anniversary.

SUBJECT: ENGLISH LITERATURE

COURSE OBJECTIVES

1. To develop critical appreciation of prose, poetry, and drama prescribed in the ISC syllabus.
2. To understand literary devices such as imagery, symbolism, irony, metaphor, and characterization.
3. To enhance interpretative and analytical skills through close reading of texts.
4. To improve written and oral expression through structured answers, essays, and discussions.

LEARNING OUTCOMES

1. Analyse themes, characters, and literary techniques in prescribed texts.
2. Interpret poems, short stories, and plays critically with textual references.

3. Write well-structured analytical and critical answers as per ISC examination pattern.
4. Express independent opinions confidently in discussions, debates, and written assignments.

TERM – 1

Continuous Assessment-1: (10 Marks)

Ch.1. Lawley Road- R.K.Narayan (Perspectives) March

Continuous Assessment -2: (10 Marks)
Ch.2. Father Returning Home- DilipChitre (Reflections) April

Unit Test – 1: (30 Marks) 23.06.26
Ch.1. Lawley Road- R.K.Narayan (Perspectives)
Ch.2. Father Returning Home- Dilip Chitre (Reflections)

Half Yearly Examination: (80 Marks 03.09.26)
Perspectives
Ch.- 3.Most Beautiful- Ruskin Bond
Ch. 4 Dream Children: Reverie- Charles Lamb
Reflections
Ch. 3. Sadness Comes- Donna Ashworth
Ch.4. A Prayer for My Daughter- William Butler Yeats
Pygmalion: Act 1
Internal Assessment: Project / Practical Work (20 Marks)

TERM – 2

Continuous Assessment-3: (10 Marks)

Ch-5. Ratan Tata (A life – Settling in at Cornell) Perspectives (November)

Continuous Assessment -4: (10 Marks)

Ch.5. Bora Ring – Judith Wright (Reflections) (November)

Unit Test – 2: (30 Marks) 0ctober

Ch.5. Bora Ring – Judith Wright (Reflections)
Ch-5. Ratan Tata (A life – Settling in at Cornell) Perspectives

Final Examination: (80 Marks) 10.02.27

- Pygmalion Act 1 and 2
  Reflections
- Bora Ring - Judith Wright

- A Prayer for My Daughter- William Butler Yeats
  Perspectives
- Dream Children- Charles Lamb
- Ratan Tata- Thomas Mathew

Internal Assessment: Project / Practical Work (20 Marks)

SUBJECT: HISTORY

COURSE OBJECTIVES

- Encourage critical thinking and analytical skills through interpretation of historical sources.
- Develop chronological understanding and the ability to connect historical events across regions.
- Promote appreciation for India's cultural heritage and global historical developments.
- Develop an understanding of historical processes and the evolution of an Independent India

LEARNING OUTCOMES

- To develop the ability to express views and arguments clearly using correct terminology of the subject.
- To familiarize candidates with various types of historical evidence and to provide some awareness of the problems involved in evaluating different kinds of source materials.
- To provide accurate knowledge of significant events and personalities of the period under study, in sequence and in context.

TERM – 1

Continuous Assessment-1: (10 Marks)
1. Emergence of colonial economy. (April)

Continuous Assessment -2: (10 Marks)
1. Social Movements (May)

Unit Test – 1: (30 Marks)
1. Protest Movement against the colonial rule (June)
2. Growth of Nationalism (July)

Half Yearly Examination: (80 Marks)
1. Emergence of colonial economy. (April)
2. Social Movements (May)
3. Protest Movement against the colonial rule (June)
4. Growth of Nationalism (July)

5. Gandhian Nationalism (1916-1922) (July)
6. Gandhian Nationalism (1927-1934) (August)

Internal Assessment: Project / Practical Work (20 Marks)

1. Book review/ film review/ posters/ newspapers (Related to Indian National Movement)
2. A Case study of respective cultures – History and present.

TERM – 2

Continuous Assessment-3: (10 Marks)
1. World War I: Causes, events leading to it; Peace settlements (August)

Continuous Assessment -4: (10 Marks)
1. The Great Depression (September)

Unit Test – 2: (30 Marks)
1. Rise of Communism under Stalin in Russia (1917 -1939) (October)
2. Rise of Fascism under Mussolini in Italy (1919-39) (October)

Final Examination: (80 Marks)
1. World War I: Causes, events leading to it; Peace settlements (August)
2. The Great Depression (September)
3. Rise of Communism under Stalin in Russia (1917 -1939) (October)
4. Rise of Fascism under Mussolini in Italy (1919-39) (October)
5. Rise of Nazism under Hitler in Germany (1933-39) (November)
6. Rise of Militarism in Japan (1919-37) (November)

Internal Assessment: Project / Practical Work (20 Marks)
1. Suppose you are a local journalist in Amritsar and you have witnessed the Jallianwallah Bagh Massacre. Draft a report with photos for the national daily newspaper highlighting the reasons and events that led to the massacre. Also highlight how it affected the National Movement.
2. Suppose you are a local journalist in Gorakhpur and you have witnessed the Chauri Chaura Incident. Draft a report with photos for the national daily newspaper highlighting the reasons and events that led to this event. Also highlight how it affected the National Movement.

SUBJECT: GEOGRAPHY

COURSE OBJECTIVES

1. To understand the origin, evolution, and internal structure of the Earth.
2. To enable students to acquire factual knowledge and develop a clear understanding of geographical terms, concepts, principles and processes at both national and global levels.
3. To understand the structure and composition of the atmosphere

4. To develop practical geographical skills, including map-drawing, interpretation of diagrams, thematic maps and data handling.
5. To understand the relationship between humans and the environment and how natural processes influence human activities.

LEARNING OUTCOMES

After completing the course, students will be able to:
1. Students can explain and draw the layers of the Earth and describe continental drift and plate tectonics.
2. Students can explain temperature distribution, pressure belts, winds, and types of rainfall with diagrams.
3. Interpret and analyse maps and geographical data accurately using scales, symbols, and contour patterns.
4. Identify and classify landforms, soils, and climatic regions with proper geographical terminology.
5. Apply geographical concepts to real-life situations, including environmental issues and resource management.

TERM – 1

Continuous Assessment-1: (10 Marks)
Chap2-Formation of the Earth

Continuous Assessment -2: (10 Marks)
Chap4-Rocks

Unit Test – 1: (30 Marks)
Chap3- Interior of the Earth
Chap5-Endogenous processes and associated landforms.

Half Yearly Examination: (80 Marks)
Chap2-Formation of the Earth
Chap3-Interior of the Earth
Chap4-Rocks
Chap5-Endogenous processes and associated landforms
Chap6-Drifting of continents and plate tectonics
Chap9-Exogenous processes and associated landforms
Map work- world map

Internal Assessment: Project / Practical Work (20 Marks) any one
1. Statistical diagrams- line graphs (simple and multiple), composite bars, pie diagrams, flow and star diagrams.
2. Aerial photographs- Introduction, definition, difference between map and an Aerial photograph; uses of Aerial photographs, advantages of Aerial photography.

TERM – 2

Continuous Assessment-3: (10 Marks)

Chap15- Marine processes and associated landforms

Continuous Assessment -4: (10 Marks)

Chap18- Insolation and Temperature

Unit Test – 2: (30 Marks)

Chap15- Marine processes and associated landforms
Chap17- Composition and structure of the Atmosphere

Final Examination: (80 Marks)

Chap15- Marine processes and associated landforms
Chap17- Composition and structure of the Atmosphere
Chap18- Insolation and Temperature
Chap19- Atmospheric pressure and wind
Chap23- Temperature, Salinity and Density of ocean water
Chapter 24-Ocean Water Movements
Chap32 Climate Change
Map work- India's map

Internal Assessment: Project / Practical Work (20 Marks) - any one

1. Island area study (India or world):
   – Trace the area's map, show physical features, towns/ports; include origins, soil/vegetation, and human activities in your report.
2. Natural hazards:
   – Study a local flood, drought, erosion, landslide etc.; report on damage, causes, effects, chances of recurrence, and precautionary measures.

SUBJECT: POLITICAL SCIENCE

COURSE OBJECTIVES

- To develop an understanding of the nature, scope, and significance of Political Science.
- To introduce students to fundamental political concepts such as State, Sovereignty, Liberty, Equality, Justice, Rights and Citizenship.
- To encourage critical thinking and analytical skills in understanding political processes.
- To develop skills of interpretation, evaluation, and application of political concepts to contemporary issues.

LEARNING OUTCOMES

- Develop critical thinking and democratic values through discussion of contemporary political issues.
- Students will be aware about the various political theories and learn them to apply in real life situations.

- Develops a basic understanding about the global world politics and the functioning of various institutions and agencies in the world.
- They analyse the importance of the neighbours of India and relations with our country.

TERM – 1

Continuous Assessment-1: (10 Marks)

1. Introduction to Political Science and State (April)

Continuous Assessment -2: (10 Marks)

1. The Origin of the State (May)

Unit Test – 1: (30 Marks)

1. The Origin of the State (May)
2. Political Ideologies (May)
3. Sovereignty (May)

Half Yearly Examination: (80 Marks)

1. The Origin of the State (May)
2. Political Ideologies (May)
3. Sovereignty (May)
4. Disintegration of Soviet Union (June-July)
5. Unipolar World (August)

Internal Assessment: Project / Practical Work (20 Marks) **(Any one)**

1. Analyse the role of Media as a pillar of democracy in the present world highlighting the recent cases in the past two years.
2. You are appointed as a Chief Election Commissioner by the Election Commission for conducting the elections at Local Self Government. Suggest the systematic procedures by which you can ensure a free and fair election.
3. Equality V/S Equity, which stands most acceptable in today's world? Analyse with practical evidence from your surroundings.

TERM – 2

Continuous Assessment-3: (10 Marks)

1. Regional Cooperation (September)

Continuous Assessment -4: (10 Marks)

1. South Asia (September)

Unit Test – 2: (30 Marks)

1. Regional Cooperation (September)
2. South Asia (September)
3. Law (October)

Final Examination: (80 Marks)

1. Regional Cooperation (September)
2. South Asia (September)
3. Law (October)
4. Liberty (November)
5. Equality (November)
6. Justice (December)

Internal Assessment: Project / Practical Work (20 Marks) **(Any one)**

1. Conduct a film review/ book review from any relevant books or films related to Fundamental Rights.
2. If you are made a candidate for the Local Panchayat election. Plan out your election agenda and the various methods of campaigning in order to secure victory in the election.
3. You are the member of UN Security Council; you are asked to provide suggestive measures to resolve the dispute between Russia and Ukraine. Plan out strategies that will bring an end to the long-drawn war.

SUBJECT: MATHEMATICS (SCIENCE)

COURSE OBJECTIVES

1. Students will understand and apply fundamental concepts of algebra, Trigonometry, calculus and Probability.
2. Students will develop the ability to think logically, solve complex problem systematically.
3. Students will learn to express mathematical ideas clearly using proper notation, graph and diagrams.
4. Students will develop speed, accuracy and confidence in solving numerical problem.

LEARNING OUTCOMES

1. Students will be able to solve problems involving sets, relation and functions.
2. Students will be able to prove trigonometric identities, solve trigonometrical equations.
3. Students will be able to represent straight lines and conic sections graphically.
4. Student will be able to calculate measures of central tendency and solve basic probability problems

TERM – 1

Continuous Assessment-1: (10 Marks)

Chapter1- Sets (March)
Chapter 12-Permutation and Combination (March)
Chapter3- Angles and Arc Lengths (March)

Continuous Assessment -2: (10 Marks)

Chapter 4- Trigonometrical Functions (April)
Chapter 18- Limits (April)
Chapter 9- Complex Numbers (April)

Unit Test – 1: (30 Marks)

CA1 + CA2
Chapter 10 – Quadratic Equation (April)
Chapter 6- Trigonometrical Equations (May)
Chapter5 – Compound and multiple Angles (May)

Half Yearly Examination: (80 Marks)

UT1
Chapter 8-Mathematical Induction (June)
Chapter 13-Binomial theorem (June)
Chapter7 – Properties of Triangle (June)
Chapter 27- Mathematical reasoning (May)
Chapter 26- Points and their coordinates in3-Dimensions (May)

Internal Assessment: Project / Practical Work (20 Marks)

1. Project on Binomial Theorem
2. Project on Complex Number

TERM – 2

Continuous Assessment-3: (10 Marks)

Chapter 14- Sequence and Series (Aug)
Chapter 19- Differentiation (Aug)
Chapter 16- Circle (Aug)

Continuous Assessment -4: (10 Marks)

Chapter 23- Parabola (Sep)
Chapter 24- Ellipse (sep)
Chapter 25 – Hyperbola (Sep)

Unit Test – 2: (30 Marks)

CA3 + CA4
Chapter 18- Limits (Sep)

Final Examination: (80 Marks)

Half Yearly + UT2
Chapter 16- The Straight Line (Dec)
Chapter 20- Measures of Central Tendency (Dec)
Chapter 2- Relations and Functions (Dec)
Chapter 22- Probability (Jan)

Internal Assessment: Project / Practical Work (20 Marks)

1. Project on Complex Number
2. Project on Sequence and Series

SUBJECT: APPLIED MATHEMATICS (COMMERCE)

COURSE OBJECTIVES

1.To enable problem solving abilities through logical reasoning, interpretation of data.
2.To enable students to apply mathematical concepts in real life situations such as finance, business.
3.To familiarize students with topics like matrices, Financial mathematics relevant to higher studies in commerce, economics and management.
4.To develop accuracy, clarity and efficiency in calculations, use of formulas and graphical.

LEARNING OUTCOMES

1.Students will be able to apply concepts such as sets, linear inequatities to solve real life and business related problems.
2.Students will be able to calculate simple annuities and solve practical financial problems.
3.stuents will be able to organize, represent and interpret statistical data.
4. Students will be able to analyse problems logically, construct mathematical models.

TERM – 1

Continuous Assessment-1: (10 Marks)

Chapter 6- Logarithms (March)
Chapter 28- Annuities (April)
Chapter 29- taxation (April)

Continuous Assessment -2: (10 Marks)

Chapter 1- Sets (May)
Chapter3 – Angles and Arc lengths (May)
Chapter5 – compound and multiple angles (June)

Unit Test – 1: (30 Marks)

CA1 + CA2
Chapter 10- Permutations and Combinations (June)
Chapter 15- Straight line (July)
Chapter 16- parabola (August)

Half Yearly Examination: (80 Marks)

UT1
Chapter 26- Mathematical Reasoning (July)
Chapter 19 – Measures of Central Tendency (July)

Internal Assessment: Project / Practical Work (20 Marks)

1. Project on Parabola
2. Project on Permutations and Combination

TERM – 2

Continuous Assessment-3: (10 Marks)
Chapter 11- Binomial Therem (Sep)
Chapter 20- Statistics (Sep)

Continuous Assessment -4: (10 Marks)
1. Chapter 17- Limits (Sep)
2. Chapter 18- Differentiation (oct)

Unit Test – 2: (30 Marks)
CA3 + CA4
Chapter 21- Measures of Dispersion (Oct)
Chapter 22- Moments, Skewness and Kurtosis (Nov)
Chapter23- Correlation Analysis (Nov)

Final Examination: (80 Marks)
Half yearly + UT2
Chapter 24- Linear Regression (Dec)
Chapter 12- Sequence and Series (Jan)
Chapter 30- Bills (Jan)

Internal Assessment: Project / Practical Work (20 Marks)
1. Project on Taxation
2. Project on Bills

SUBJECT: PHYSICS

COURSE OBJECTIVES

1. To build a strong understanding of fundamental physical laws and concepts.
2. To develop problem solving and analytical skills through numerical and practical work.
3. To relate physics concepts to real-life applications and everyday phenomena.

LEARNING OUTCOMES

1. Students can explain key concepts and solve numerical problems accurately.
2. Students will be able to perform the experiments, record observations and draw valid calculations.
3. Students can apply physics principles logically to practical and real-world situations.

TERM – 1

Continuous Assessment-1: (10 Marks)
* Mechanical properties of solid

Continuous Assessment -2: (10 Marks)
* Motion in a plane
* Motion in a straight line
* Newton's Laws of motion

Unit Test – 1: (30 Marks)
* Motion in a plane
* Newton's Laws of motion
* Friction (static and dynamic)

Half Yearly Examination: (70 Marks)
*Motion in a plane
* Newton's Laws of motion
* Gravitation
*Simple harmonic motion
* Friction (static and Dynamic friction)
* Circular motion
* Work, power and energy

Internal Assessment: Project / Practical Work (30 Marks)

1. To determine the least count of the given vernier calipers and to measure the length and diameter of a cylindrical rod by that vernier calipers
2. To determine the pitch and least count of the given screw gauge and measure the mean radius of the given wire, taking three sets of reading in perpendicular directions.
3. To determine the time period of a simple pendulum and hence to calculate the acceleration due to gravity using graph T^2vs L

TERM – 2

Continuous Assessment-3: (10 Marks)
* Mechanical properties of fluids

Continuous Assessment -4: (10 Marks)
* Rotational motion (moment of inertia, parallel axes theorem and perpendicular axes theorem, conservation of angular momentum, Torque, rolling without slipping)

Unit Test – 2: (30 Marks)
* Circular motion
* Rotational motion (moment of inertia, parallel axes theorem and perpendicular axes theorem, conservation of angular momentum, Torque, rolling without slipping)

Final Examination: (70 Marks)
* Mechanical properties of fluids
* Thermodynamics
* Surface tension
* Simple harmonic Motion
* Rotational Motion
* Gravitation
* Doppler effect of sound
* Standing waves in strings and organ pipes

* Fundamental mode and harmonics Beats
* Kinetic theory of gases.

Internal Assessment: Project / Practical Work (30 Marks)

1. Determination of Young's Modulus
2. Study of Variation of g with Height (Graphical Activity).
3. Determination of Specific Heat Capacity of a Liquid
4. Verification of Newton's Law of Cooling

SUBJECT: CHEMISTRY

COURSE OBJECTIVES

- Build a strong foundation in fundamental concepts of chemistry.
- Develop quantitative problem-solving skills using mole concept and stoichiometry.
- Understand atomic structure, periodicity, and chemical bonding.
- Explore states of matter, thermodynamics, and equilibrium.
- Introduce redox reactions, hydrocarbons, and environmental chemistry.
- Strengthen laboratory techniques and analytical skills.

Learning Outcomes

- Apply laws of chemical combination and mole concept to numerical problems.
- Explain atomic models, quantum mechanics, and electronic configurations.
- Interpret periodic trends and chemical bonding theories.
- Describe properties of gases, liquids, and solids using kinetic theory.
- Apply thermodynamic principles to chemical processes.
- Understand redox reactions and their applications.
- Identify and classify hydrocarbons and basic organic compounds.
- Demonstrate safe and accurate laboratory practices.

TERM – 1

Continuous Assessment-1 (10 Marks)

1. Atomic Structure (March- April)

Continuous Assessment-2 (10 Marks)

2. Chemical Bonding (April)

Unit Test – 1 (30 Marks)

1. Chemical Bonding
2. Atomic Structure

Half-Yearly Examination (80 Marks)

1. Chemical Bonding
2. Atomic Structure
3. Some basic concepts of chemistry (April-May)
4. Periodic classification of elements (July)

Internal Assessment: Project / Practical Work (20 Marks)

1. Acid Base titration
2. Identification of Acid radicals
3. Glass tube bending and shaping

TERM – 2

Continuous Assessment-3 (10 Marks)

1. Redox Reaction (August)

Continuous Assessment-4 (10 Marks)

2. Equilibrium (Sept)

Unit Test – 2 (30 Marks)

1. Redox (Sept)
2. Thermodynamics (Oct)

Final Examination (80 Marks)

1. Redox
2. Thermodynamics
3. Equilibrium
4. Organic Chemistry (November-Dec)
5. Hydrocarbons (January-Feb)

Internal Assessment: Project / Practical Work (20 Marks)

1. Group Analysis

SUBJECT: BIOLOGY

COURSE OBJECTIVES

- To develop an understanding of the diversity, classification, and organisation of living organisms.
- To study the structural and functional aspects of cells, plants, animals, and the human body.
- To explain major physiological processes in plants and humans.
- To cultivate scientific skills such as observation, analysis, diagrammatic interpretation, and application of biological concepts to everyday life.

LEARNING OUTCOMES

By the end of the course, students will be able to:

- Classify living organisms and explain their distinguishing characteristics.
- Describe the structure of plant and animal systems and relate structure to function.
- Explain cell structure, functions of organelles, and the process of cell division.
- Interpret key physiological processes in plants, including transport, photosynthesis, respiration, and growth.

- Describe the functions of major human organ systems and understand basic health concepts.
- Apply biological knowledge to real-life situations and demonstrate environmental awareness.

TERM – 1

Continuous Assessment-1: (10 Marks)
Unit 1: Diversity of living organisms (April)

Continuous Assessment -2: (10 Marks)
Unit 2: Anatomy of Flowering plant (May)

Unit Test – 1: (30 Marks)
Unit 1: Diversity of living organisms
Unit 2: Morphology of Flowering plants (May)

Half Yearly Examination: (70 Marks)
Unit 1: Diversity of living organisms
Unit 2: Structural Organisation in Animals and Plants (May-June)
Unit 3: Cell: Structure and Function (Cell: the unit of life, Biomolecules) (July)

Internal Assessment: Project / Practical Work (30 Marks)
Project: (10 marks)
Diabetes or Endocrine disorder
Practical: (20 marks)

- Spotting: Stages of meiosis, Identification of mammalian blood cells, Bacteria, Spirogyra, Amoeba and Yeast
- Demonstration of plasmolysis (using Rhoeo leaf / onion bulb).
- Demonstration of osmosis in living plant cells (potato osmoscope).
- T.S of monocot and dicot stem.
- T.S. of monocot and dicot root.
- To study the effect of thawing, heat and alcohol on permeability of beet root cells.
- Morphology and modification of roots, stems and leaves.

TERM – 2

Continuous Assessment-3: (10 Marks)
Unit 3: Cell: Structure and Function (Biomolecules, Cell Cycle and Cell Division) (Sept)

Continuous Assessment -4: (10 Marks)
Unit 4: Plant Physiology (Plant Growth and Development) (Oct)

Unit Test – 2: (30 Marks)
Unit 3: Cell: Structure and Function (Sept)

Unit 4: Plant Physiology (Photosynthesis and respiration in plants) (Nov)

Final Examination: (70 Marks)
Unit 1: Diversity of living organisms
Unit 2: Structural Organisation in Animals and Plants
Unit 3: Cell: Structure and Function
Unit 4: Plant Physiology
Unit 5: Human Physiology (Dec)

Internal Assessment: Project / Practical Work (30 Marks)
Project (10 marks)
Yeast fermentation and production of alcohol or any other commercial industry dependant on plants and/or animals or their products.
Practical (20 marks)

- Spotting: Fern, Pinus, Mushroom, Sponge, Hydra, Tapeworm, Leech, Silkworm, Rohufish, Miss, Liverworts
- Food tests: test for starch, glucose, sucrose, proteins and fats.
- Separation of plant pigments from leaves by chromatography.
- Preparation of temporary slides of Mucor /Rhizopus
- Preparation of temporary slides of - Onion peel (to study the plant cell)

SUBJECT: COMPUTER SCIENCE

COURSE OBJECTIVES

• To develop understanding of number systems and encoding techniques.
• To introduce propositional logic and logic gates.
• To build strong programming skills using Java.
• To apply arrays, strings, methods and constructors in problem solving.
• To introduce recursion, file handling and algorithm development.

LEARNING OUTCOMES

Students will be able to:
Convert numbers between different number systems.
• Apply propositional logic and logic gates in problem solving.
• Write structured Java programs using OOP concepts.

• Implement arrays, strings and user-defined methods.
• Use recursion and file handling techniques.
• Develop algorithms to solve computational problems.

TERM – 1

Continuous Assessment-1: (10 Marks)

Chapter 1: Numbers (Numbers in different bases and their arithmetical operations)(April)
Chapter : Introduction to python(April)

Continuous Assessment -2: (10 Marks)

1. Chapter 3: Propositional Logic, Hardware Implementation, Arithmetical Operations (May)

Unit Test – 1: (30 Marks)

Chapter 1 : Numbers (April)
Chapter 2: Encoding (May)
Chapter 3: Propositional Logic, Hardware Implementation, Arithmetical Operations (May)
Chapter 7. Conditional and Looping Statements (May)
Chapter 8. Character Handling and String Manipulation (May)
Chapter 9. Arrays: Single and Double Dimensional (June)

Half Yearly Examination: (70 Marks)

Chapter 1 : Numbers (April)
Chapter 2 :Encoding (May)
Chapter 3: Propositional Logic, Hardware Implementation, Arithmetical Operations (May)
Chapter 4. Introduction to Java Language (April)
Chapter 5. Concept of Data Type (July)
Chapter 6. Operators and Expressions (July)
Chapter 7. Conditional and Looping Statements (May)
Chapter 8. Character Handling and String Manipulation (May)
Chapter 9. Arrays: Single and Double Dimensional (June)
Chapter 10. Methods and Constructors (July)
Chapter : Introduction to python (April)

Internal Assessment: Project / Practical Work (30 Marks)
Any 20 Programs based on Arrays, Strings and Python
Algorithm implementation project
Practical file submission

TERM – 2

Continuous Assessment-3: (10 Marks)

Chapter 1: Boolean Algebra (class 12 book) (October)
Chapter 2: Computer Hardware (class 12 book) (October –November)

Continuous Assessment -4: (10 Marks)

Chapter 12 : Recursion (class 11 book)(November)

Unit Test – 2: (30 Marks)

Chapter 12 : Recursion (class 11 book) (November)
Chapter 13 : Data Structure (Class 12 book)(December)

Final Examination: (70 Marks)

Full book (class 11)
Chapter 11: Recursion (class 12 book)
Chapter 12: Inheritance, Interfaces and Polymorphism (class 12 book)
Chapter 13: Data Structure (class 12 book)
Chapter 14: Computational Complexity and Big O Notation (class 12 book) (January)

Internal Assessment: Project / Practical Work (30 Marks)
Any 20 Programs based on Arrays, Strings and Python
Algorithm implementation project
Practical file submission

SUBJECT: ACCOUNTS

COURSE OBJECTIVES

1. To develop understanding of basic accounting principles and concepts such as GAAP, double entry system, and accounting standards.
2. To enable recording of business transactions systematically in Journals and ledgers.
3. To prepare financial statements like Trading Account, Profit & Loss Account and Balance sheet.
4. To develop analytical skills for interpretation of financial statements and decision-making.

LEARNING OUTCOMES

By the end of the course, students will be able to:
1. Apply accounting principles while recording financial transactions.
2. Prepare and analyze ledger accounts accurately.
3. Prepare GST set-off entries and Bank Reconciliation statements.
4. Interpret accounting for fixed assets by preparing provision for depreciation account.

TERM – 1

Continuous Assessment-1: (10 Marks)

1. Introduction to Accounting (by April)
2. Basic Accounting Terms (by April)

Continuous Assessment -2: (10 Marks)

1. Accounting Principles (by April)
2. Accounting Equation (by May)

Unit Test – 1: (30 Marks)

1. Accounting Principles
2. Journal (by May)
3. Ledger (by May)

Half Yearly Examination: (80 Marks)

1. Journal
2. Ledger
3. Cash Book (by June)
4. Sub-Division of Journal (by June)
5. Petty Cash Book (by July)
6. Accounting of Goods and Services Tax (GST) (by July)
7. Bank Reconciliation Statement (by July)

Internal Assessment: Project / Practical Work (20 Marks)

1. Preparation of Journal/Sub-division of Journal, Ledger, Trial Balance and Financial Statements of a trading organization on the basis of a case study.
2. Take any five accounting concepts and give any two practical examples of each to Bring out clearly the understanding of the concept.

TERM – 2

Continuous Assessment-3: (10 Marks)

1. Depreciation (by August)

Continuous Assessment -4: (10 Marks)

1. Bills of Exchange (by August)

Unit Test – 2: (30 Marks)

1. **Depreciation**
2. **Bills of Exchange**

Final Examination: (80 Marks)

1. Journal
2. Accounting for GST
3. Cash Book

4. Sub-division of Journal
5. Bank Reconciliation statement
6. Depreciation
7. Bills of Exchange
8. Final Accounts (Without Adjustments) (by September)
9. Final Accounts – With adjustments (by October)

Internal Assessment: Project / Practical Work (20 Marks)

1. Prepare a BRS and amended Cash Book from the information given in your Cash Book and Bank Statement with at least fifteen transactions.
2. Develop a case study by creating an imaginary Trial Balance and develop any five-Six adjustments and then prepare the trading, Profit & Loss account and balance Sheet out of it, along with Journal entries for those adjustments.

SUBJECT: BST

COURSE OBJECTIVES

1. To develop an understanding of the meaning, purpose, and classification of business activities in the economy.
2. To enable students to identify and compare different forms of business organisations and their suitability.
3. To help students understand modern and evolving modes of business and their impact on trade and society.
4. To develop knowledge of domestic trade, its functions, and its importance in the distribution of goods and services.
5. To create awareness about business risks, their causes, effects, and methods of protection through insurance.

LEARNING OUTCOMES

1. Students will be able to understand the meaning, objectives, and classification of business activities.
2. Students will be able to identify and compare different forms of business organisations.
3. Students will be able to understand modern and evolving modes of business and the role of technology.
4. Students will be able to explain the meaning and functions of domestic trade and distribution.
5. Students will be able to identify business risks and understand the importance of insurance in protecting businesses.

TERM – 1

Continuous Assessment-1: (10 Marks)

Unit 1 Business purpose and classification

Continuous Assessment -2: (10 Marks)

Unit 2 Forms of Business organization

Unit Test – 1: (30 Marks)
Unit 1 Business purpose and classification
Unit 2 Forms and types of Business organisation

Half Yearly Examination: (80 Marks)
UT 1 + unit 3 Contemporary and evolving modes of business (e-business & e-commerce)

Internal Assessment: Project / Practical Work (20 Marks) **(Select any one topic)**

1. Select a daily-use consumer product. Trace its origin right from the primary industry through the secondary and tertiary industries. Draw a flow chart to include all the business activities in its path from the producer to the consumer.

2. Assume you are starting a partnership firm with your friend/friends. Develop a business plan covering the following aspects:

− Formation of this partnership firm – rules and steps that would be followed including the partnership deed

− Choice of types of partners involved and your justification for the same.

3. A System for Tracking Food Origins: Develop a block chain-based system to trace the journey of food products from farm to consumer, recording details like origin, processing, and transportation. This can help
ensure food safety and authenticity. For example, tracking the origin and processing of organic vegetables.

TERM – 2

Continuous Assessment-3: (10 Marks)
Unit 3 Contemporary and evolving modes of business (e-banking)

Continuous Assessment -4: (10 Marks)
unit 4 Domestic Trade (Wholesale Trade)

Unit Test – 2: (30 Marks)
unit 3 Contemporary and evolving modes of business (e-business, e-commerce& e-banking)
unit 4 Domestic Trade

Final Examination: (80 Marks)
U.T.2 + Unit 5 Business Risks and Insurance

Internal Assessment: Project / Practical Work (20 Marks) **(Select any one topic)**

1. Visit a company that is involved in e-business (which offers online services) or a consultancy, which helps in developing websites for such companies.
Study different aspects they keep in mind while preparing business plans for e-business. Include information regarding the payment mechanisms, security and safety of business transactions. The risks involved in ebusiness should also be covered. Also include the steps they follow while implementing the plan and starting the business.

2. Select a global enterprise, study its expansion strategy, focusing on its entry into emerging markets, adaptation to local regulations, and the role of technology in driving international growth and customer engagement.

3. Document and analyse the Corporate Social Responsibility activities of a pharmaceutical company and a five star hotel.
Comment on the changing role assumed by Corporates towards business ethics and social responsibility in the last two decades.

SUBJECT: PHYSICAL EDUCATION

COURSE OBJECTIVES

The course aims to help students understand the meaning, importance, and scope of Physical Education while developing physical fitness, health awareness, and positive lifestyle habits. It encourages mental, emotional, and social development through participation in sports and games, provides basic knowledge of rules and skills of various activities, and promotes values such as teamwork, discipline, leadership, and sportsmanship, while motivating students to stay active and maintain lifelong fitness.

LEARNING OUTCOMES

Students will understand the importance of physical education, health and fitness, learn basic sports skills and rules, develop teamwork and discipline, and participate actively in physical activities for lifelong wellbeing

TERM – 1

Continuous Assessment-1: (10 Marks)
Understanding of the term physical education its aim and objectives (April)

Continuous Assessment -2: (10 Marks)
Need for physical education and how it is important (April-May)

Unit Test – 1: (30 Marks)
Ch 1 Concept of Physical Education

Half Yearly Examination: (70 marks)
Ch 2 Individual Aspects and group dynamics (June-July)
Ch 3 Effect of Physical Exercise on human body systems (July -august)
Games: section b (any one)

Internal assessment: Project / Practical work (30 marks)

Project work and practical (ground)
Physical efficiency test

Term – 2

Continuous Assessment-3: (10 marks)
Balance diet and role of balance diet in performance (September)

Continuous Assessment -4: (10 marks)
Nutrition basics dietry goals and basic of nutritious diet (September- October)

Unit Test – 2: (30 marks)
Ch 4 Nutrition, weight control and exercise

Final Examination: (70 marks)
Ch 5 physical fitness and wellness (November-December)
Ch 6 games and sports a global perspective (December- January)

Games: section b (team games)
Entire book

Internal Assessment: project / practical work (30 marks)
File work of any two games
Physical efficiency test
Viva-voice (on two games)

SUBJECT: ECONOMICS

COURSE OBJECTIVES

1. To enable students to understand the basic economic concepts.
2. Build analytical and logical thinking to analyze economic problems logically.
3. Understand the use of Statistics in Economics.
4. Interpret data through diagrams and graphs.
5. Relate theory to real-life situations and help students connect economic theories with real-world issues like inflation, unemployment, poverty, and economic growth.

LEARNING OUTCOMES

1. After studying Economics, the students will be able to understand Basic Economic Concepts such as scarcity, choice, opportunity cost, utility, demand, supply, and market.
2. Understand the importance of statistics in economics they will be able to calculate and interpret:
   # Measures of Central Tendency (Mean, Median, Mode)
   # Measures of Dispersion (Range, Mean Deviation, Standard Deviation)
3. Explain the central problems of an economy and different economic systems used to solve them.
4. Develop analytical and logical thinking using diagrams, schedules, and simple numerical examples.

TERM – 1

Continuous Assessment-1: (10 Marks)
Chapter1- Definition of Economics. (April)

Continuous Assessment -2: (10 Marks)
Chapter 4- Types of Economics
(May)

Unit Test – 1: (30 Marks)
Chapter 2- Basic Concepts of Economics
Chapter 3- Basic problem of an Economy (April - May)

Half Yearly Examination: (80 Marks)
Chapter 5- Solution to the basic economic problems under different economic systems
Chapter 6- Economic growth and development
Chapter 7- Parameters of development
Chapter 1- Definition of economics
Chapter 2- Basic concepts of Economics
Chapter 4 - Types of Economics
Statistics:
Chapter 18- Measures of Central value
Chapter 19- Measures of dispersion
(June- August)

Internal Assessment: Project / Practical Work (20 Marks)
India has evolved from a primarily agrarian economy to a rapidly globalising one with a mixed economic framework.
With reference to this statement, conduct a comparative study of the three major types of economies—Capitalist, Socialist, and Mixed economies.
Analyse India's economic structure and justify why it is classified as a mixed economy, using current examples from sectors such as healthcare, education, infrastructure, or digital services.

TERM – 2

Continuous Assessment-3: (10 Marks)
Chapter 11- Structural changes in the Indian economy after liberalization
(September)

Continuous Assessment -4: (10 Marks)
Statistics: Chapter 21- Index number (October)

Unit Test – 2: (30 Marks)
Chapter 12- The problem of poverty in India
Chapter 13- Profile of Indian agriculture / rural development
(September - October)

Final Examination: (80 Marks)
Chapter 14- Human capital formation in India
Chapter 15- Unemployment problem in India: problem and policies
Chapter 2- Basic Concept of Economics
Chapter 4- Types of Economics
Chapter 11- Structural changes in I Indian economy after liberalisation.
Chapter 12- The problem of poverty in India
Statistics:
Chapter 20- Correlation
Chapter 21- Index number
Chapter 18- Measures of Central Value
Chapter 19- Measures of Dispersion

(October -December)
Internal Assessment: Project / Practical Work (20 Marks)

Poverty in India is not merely a lack of income but a multidimensional challenge.-
With reference to this statement, conduct a field-based and data-driven study to:

a. Examine the nature and causes of poverty in India using real-life examples from your local area.
b. Analyse the effectiveness of major poverty alleviation programmes implemented by the Government of India in addressing these causes.
c. Evaluate whether these programmes have improved the quality of life of the poor beyond income levels (education, health, employment, nutrition).

SUBJECT: SUPW

COURSE OBJECTIVES

- Make students independent and capable of doing useful work on their own.
- Help students learn how to handle real-life situations practically.

- Help students respect manual work and understand the value of manual work in the digital era.

LEARNING OUTCOMES

- Practice cleanliness and environmental care (e.g., waste management, green energy).
- Create useful products that meet personal or community needs.
- Work effectively in a team and cooperate with others.

TERM – 1

Project / Assignments (100 Marks)

1. Handicraft preparation with help of waste materials.
2. Compost making (organic manure).
3. Pillow Embroidery.

TERM – 2

Project / Assignments (100 Marks)

1. Eggshell Mosaic Hanging.
2. Candle making/ Soap Making
3. Woolen Scarf

ACADEMIC STRUCTURE

TERM 1						TERM 2						
CA-1	CA-2	UT-1	HY	P	TOTAL	CA-3	CA-4	UT-2	FINAL	P	TOTAL	GRAND TOTAL
10	10	30	80	20	150	10	10	30	80	20	150	300