

INDEX

S.No.	Contents	Page No.
1.	Preface	2
2.	General Guidelines for the Students	3
3.	Schedule of distribution of units in the syllabus	4
4.	Syllabus in details :	
	• English Core	5
	• Mathematics (041)	8
	• Physics	10
	• Chemistry	12
	• Biology	16
	• Computer Science	19
	• Informatics Practices	20
	• Business Studies	20
	• Accountancy	23
	• Economics	26
	• Geography	28
	• Political Science	31
	• Psychology	31
	• Mass Media Studies	35
	• Fine Arts (Paintng)	37
	• Hindustani Music Vocal	38
	• Physical Education	38
	• Financial Markets Management	39
	• Home Science	41
	• Marketing	42

PREFACE

The syllabus for Class XI has been compiled in accordance with the curriculum set by CBSE and the guidelines provided by the CBSE from time to time.

The course aims to provide certain objectives which have been enlisted in the syllabus booklet.

The chapterwise allocation of marks has been provided for the students, list of help books / textbooks and other literature related to the specific subject has also been provided.

Students are advised to read their "NCERT" text books, first and along with it refer to those added materials.

We hope that our work proves to be helpful to the students and to the faculty members.

GENERAL GUIDELINES FOR THE STUDENTS

1. Students should be present in the class at the start of the period and reach in time for all other activities and functions.
2. Attendance on the last day of school before vacation and first day of the school after vacations is absolutely essential.
3. Students are required to behave politely at all times and should not use indecent languages or, indulge in fights and quarrels with other children in the school. Any behaviour likely to cause hurt to others in the matter of language, religion or community is strictly prohibited.
4. Children should refrain themselves from the following activities :
Spitting in or near the school building, disfiguring or otherwise damaging the school property, smoking any form of gambling use of drugs, intoxicants, rowdiness and rude behaviour, use of violence in any form and casteism and communalism.
5. No students should scratch or damage the school property or write or draw on the walls or cause damage in any way to any item belonging to the school or to others in the school. Any damage done will render the students liable for recovery of damages.
6. In the absence of the teacher from the classroom students are required to observe silence and obey the monitor of the class.
7. Every student should have his/her own textbook, stationery and other material required for studies. Articles should not be exchanged, nor should money borrowed or lent.
8. A student who uses unfair means in the examination will render himself/herself liable to such punishment as is considered necessary by the Principal/Co-ordinator.
9. The general behaviour of students should be good not only within in the school but also outside. Any reported objectionable conduct within or outside the school will make the student liable for disciplinary action.
10. Student found possessing or, reading any books or magazine of indecent nature are liable for disciplinary action.
11. Every student should take care of his/her personal belongings. School authorities will not be responsible for loss of such belongings.
12. It is the duty of all students to keep their classrooms and other places in and around the school clean and in order. All waste paper and other discardable materials should be thrown in the dustbin.
13. No student is allowed to write on the black board unless asked to do so by the teacher.
14. Before leaving the class room at the end of the day they should arrange the desks and chairs in proper order, put off the lights and fans, close the windows, throw the waste and unwanted materials into the dustbin and then leave the class room.
15. A student should come to the school in proper uniform which should be properly washed & ironed.
16. A student should greet/wish everybody with a pleasant smile.
17. Violation of the rules and regulations of the school and the code of conduct will render the concerned student liable to punishment including removal from the rolls of the school.
18. Problem Solving Assessment (PSA) will be conducted by CBSE in January and it is mandatory for every student to appear for the PSA. In case a student is unable to qualify the PSA in class XI, then he/she will be required to appear for the same in the next year.
19. School would also be conducting the following assessments in accordance with the guidelines issued by the board.
a) ASL : Assessment in speaking & listening skills in English.
b) OTBA : Open text based assessment in the annual exam in economics, biology & geography. The text for OTBA will be provided by CBSE.
20. Grades will also be given in the following areas of learning - Work Experience, Physical Education & General Studies.

UNIT WISE DISTRIBUTION OF THE SYLLABUS (2025-2026)**CLASS-XI**

Unit	Dates		No. of Days
	From	To	
Unit 1	07.04.2025	17.04.2025	08
Unit 2	21.04.2025	03.05.2025	11
Unit 3	05.05.2025	16.05.2025	09
Unit 4	19.05.2025	30.05.2025	10 (Block Teaching)
Summer Vacation	31.05.2025	21.06.2025	
Unit 5	23.06.2025	05.07.2025	11
Unit 6	07.07.2025	18.07.2025	10
Unit 7	21.07.2025	02.08.2025	11
Unit 8	04.08.2025	22.08.2025	14
Unit 9 & Rev.	25.08.2025	12.09.2025	15
Half Yearly Exams	15.09.2025	29.09.2025	
Unit 10	03.10.2025	17.10.2025	11
Unit 11	24.10.2025	07.11.2025	11
Unit 12	10.11.2025	21.11.2025	11
Unit 13	24.11.2025	05.12.2025	11
Unit 14	08.12.2025	26.12.2025	14
Winter Break	29.12.2025	03.01.2026	
Unit 15 & Rev.	05.01.2026	31.01.2026	20
Annual Exam	02.02.2026 onwards (Tentative)		

ASSESSMENT SCHEDULE :

Assessment	Dates	
	From	To
Extra Classes	19.05.2025	30.05.2025
Periodic Assessment-1	05.07.2025	11.07.2025
Periodic Assessment-2	11.08.2025	19.08.2025
Half Yearly Exams	15.09.2025	29.09.2025
Periodic Assessment-3	03.11.2025	11.11.2025
Periodic Assessment-4	08.12.2025	15.12.2025
Annual Exams	02.02.2026 onwards (Tentative)	

ENGLISH (CORE)

Prescribed Books :

1. HORNBILL (NCERT)
2. SNAPSHOT (NCERT)

The general objectives at this stage are to :

- ❖ listen and comprehend live as well as record in writing oral presentations on a variety of topics
- ❖ develop greater confidence and proficiency in the use of language skills necessary for social and academic purpose to participate in group discussions, interviews by making short oral presentation on given topics
- ❖ perceive the overall meaning and organisation of the text (i.e., correlation of the vital portions of the text)
- ❖ identify the central/main point and supporting details, etc., to build communicative competence in various lexicons of English
- ❖ promote advanced language skills with an aim to develop the skills of reasoning, drawing inferences, etc. through meaningful activities
- ❖ translate texts from mother tongue(s) into English and vice versa
- ❖ develop ability and acquire knowledge required in order to engage in independent reflection and enquiry
- ❖ read and comprehend extended texts (prescribed and non-prescribed) in the following genres: science fiction, drama, poetry, biography, autobiography, travel and sports literature, etc.
- ❖ text-based writing (i.e., writing in response to questions or tasks based on prescribed or unseen texts) understand and respond to lectures, speeches, etc.

- ❖ write expository / argumentative essays, explaining or developing a topic, etc. write formal/informal letters and applications for different purposes
- ❖ make use of contextual clues to infer meanings of unfamiliar vocabulary
- ❖ select, compile and collate information for an oral presentation
- ❖ produce unified paragraphs with adequate details and support
- ❖ use grammatical structures accurately and appropriately
- ❖ write items related to the workplace minutes, memoranda, notices, summaries, reports etc.
- ❖ filling up of forms, preparing CV, e-mail messages, making notes from reference materials, recorded talks etc. The core course should draw upon the language items suggested for class IX-X and delve deeper into their usage and functions. Particular attention may, however, be given to the following areas of grammar:
 - ◆ The use of passive forms in scientific and innovative writings.
 - ◆ Convert one kind of sentence/clause into a different kind of structure as well as other items to exemplify stylistic variations in different discourses modal auxiliaries- uses based on semantic considerations.

A. Specific Objectives of Reading :

Students are expected to develop the following study skills :

- ◆ skim for main ideas and scan for details
- ◆ refer to dictionaries, encyclopaedia, thesaurus and academic reference material in any format
- ◆ select and extract relevant information, using reading skills of skimming and scanning

- ◆ understand the writer's purpose and tone
- ◆ comprehend the difference between the literal and the figurative
- ◆ differentiate between claims and realities, facts and opinions, form business opinions on the basis of latest trends available
- ◆ comprehend technical language as required in computer related fields, arrive at personal conclusion and logically comment on a given text.
- ◆ specifically develop the ability to be original and creative in interpreting opinion, develop the ability to be logically persuasive in defending one's opinion and making notes based on a text.

Develop literary skills as enumerated below :

- ◆ respond to literary texts
- ◆ appreciate and analyse special features of languages that differentiate literary texts from non-literary ones, explore and evaluate features of character, plot, setting, etc.
- ◆ understand and appreciate the oral, mobile and visual elements of drama. Identify the elements of style such as humour, pathos, satire and irony, etc.
- ◆ make notes from various resources for the purpose of developing the extracted ideas into sustained pieces of writing B. Listening and Speaking needs a very strong emphasis and is an important objective leading to professional competence. Hence, testing of oral skills must be made an important component of the overall testing pattern. To this end, speaking and listening skills are overtly built into the material to guide the teachers in actualization of the skills.

Specific Objectives of Listening & Speaking
Students are expected to develop the ability to :

- ◆ take organized notes on lectures, talks and listening passages
- ◆ listen to news bulletins and to develop the ability to discuss informally a wide ranging issues like current national and international affairs, sports, business, etc.
- ◆ respond in interviews and to participate in formal group discussions
- ◆ make enquiries meaningfully and adequately and to respond to enquiries for the purpose of travelling within the country and abroad.
- ◆ listen to business news and to be able to extract relevant important information.
- ◆ to develop public speaking skills.

C. Specific Objectives of Writing :

The students will be able to :

- ◆ write letters to friends, relatives, etc. to write business and official letters.
- ◆ open accounts in post offices and banks. To fill in railway/airline reservation forms.
- ◆ draft advertisements and design posters effectively and appropriately
- ◆ write on various issues to institutions seeking relevant information, lodge complaints, express gratitude or render apology.
- ◆ write applications, fill in application forms, prepare a personal bio-data for admission into colleges, universities, entrance tests and jobs.
- ◆ write informal reports as part of personal letters on functions, programs and activities held in school (morning assembly, annual day, sports day, etc.)
- ◆ write formal reports for school magazines/

events/processes/ or in local newspapers about events or occasions.

- ◆ express opinions, facts, arguments in the form of speech or debates, using a variety of accurate sentence structures
- ◆ take down notes from talks and lectures.
- ◆ write examination answers according to the requirement of various subjects.
- ◆ summarise a text.

D. More About Reading Inculcating good reading habits in children has always been a concern for all stakeholders in education. The purpose is to create independent thinking individuals with the ability to not only create their own knowledge but also critically interpret, analyse and evaluate it with objectivity and fairness. This will also help students in learning and acquiring better language skills. Creating learners for the 21st century involves making them independent learners who can learn, unlearn and relearn. If our children are in the habit of reading, they will learn to reinvent themselves and deal with the many challenges that lie ahead of them. Reading is not merely decoding information or pronouncing words correctly. It is an interactive dialogue between the author and the reader in which the reader and the author share their experiences and knowledge with each other. Good readers are critical readers with an ability to arrive at a deeper understanding of not only the world presented in the book but also of the real world around them. Consequently, they become independent thinkers capable of taking their own decisions in life rationally. Hence, a few activities are suggested below which teachers may use as a part of the reading project.

- ◆ Short review / dramatization of the story
- ◆ Commentary on the characters

- ◆ Critical evaluation of the plot, storyline and characters
- ◆ Comparing and contrasting the characters within the story, with other characters in stories by the same author or by different authors
- ◆ Extrapolating about the story read or life of characters after the story ends defending characters actions in the story
- ◆ Making an audio story out of the novel/text to be read aloud.
- ◆ Interacting with the author
- ◆ Holding a literature fest where students role-play as various characters to interact with each other
- ◆ Role playing as authors/poets/dramatists, to defend their works and characters
- ◆ Symposiums and seminars for introducing a book, an author, or a theme
- ◆ Creating graphic novels out of novel or short stories they read
- ◆ Dramatizing incidents from a novel or a story
- ◆ Creating their own stories
- ◆ Books of one genre to be read by the whole class. Teachers may select books and e-books suitable to the age and level of the learners. Care ought to be taken to choose books that are appropriate in terms of language, theme and content and which do not hurt the sensibilities of a child. Teachers may later suggest books from other languages by dealing with the same themes as an extended activity. The Project should lead to independent learning/reading skills and hence the chosen book should not be taught in class, but may be introduced through activities and be left for the students to read at their own pace. Teachers may, however,

choose to assess a student's progress or success in reading the book by asking for verbal or written progress reports, looking at their diary entries, engaging in a discussion about the book, giving a short quiz or a work sheet about the book/short story. A befitting mode of assessment may be chosen by the teacher. Subject to minor changes due to unavoidable circumstances Unit 1 07.04.2025 to 17.04.2025 (08) Revision Literature : The Portrait of a lady. Writing Skills : Creative writings, Reading Comprehension Art Integration : Creative writing (based on given situations) Unit 2 21.04.2025 to 03.05.2025 (11) Literature : 1. A Photograph 2. The Summer of the beautiful White Horse Reading Skills : Note Making Art Integration : Literature Speaking Activity- Analyzing & describing your favourite photograph Unit 3 05.05.2025 to 16.05.2025 (09) Literature : 1. We're not afraid to die if we are together 2. The Address Reading Skills : 3. Note Making (contd.) Writing Skills : Speech writing Art Integration : Speaking Activity : - Based on their real life experiences stating the lesson they have learnt from such hazardous experiences. - Discussion on the differences between the reaction of the adults and the children when faced with danger. - Sharing experiences about the significance of	articles/memories/people. Unit 4 19.05.2025 to 30.05.2025 (10) Literature : Discovering Tut-The Saga Continues The Laburnum Top Grammar : Gap Filling: Tenses Writing Skills : Note Making (Continues), Poster Making Advertisement Art Integration : Presentation on Discovering Tut-The Saga Continues Unit 5 23.06.2025 to 05.07.2025 (11) Literature : Mother's Day Voice of rain Writing Skills : Advertisement (Continues) Art Integration : Discussion on : - Husbands, sons, daughters should be taking notice of wives and mothers; not giving them orders & treating them like dirt. What do you think about it? Unit 6 07.07.2025 to 18.07.2025 (10) Literature : Childhood Birth Writing Skills : Debate Writing Art Integration : - Write a brief note on 'Childhood is an essential state in the process of growing up, but it can't go on forever.' - As a child write a diary entry expressing your confession of being responsible of cold indifference between you & your parents and finding solutions to the problems. Unit 7 21.07.2025 to 02.08.2025 (11) Literature : The Adventure Writing Skills : Article writing Literature : The Tale of Melon City Art Integration : - Write a letter to Rajendra Prasad as Professor Gaitonde, stating the experience you had due	to catastrophe Theory. Research work on Laissez Faire & its significance. Unit 8 04.08.2025 to 22.08.2025 (14) Literature : REVISION Unit 9 & Rev. 25.08.2025 to 12.09.2025 (15) Topic : REVISION Literature : Landscape of the soul (Deleted Chapter 22-23) Unit 10 03.10.2025 to 17.10.2025 (11) Literature : Father To Son, Silk Road Art Integration : Travelogue on Varanasi Unit 11 24.10.2025 to 07.11.2025 (11) Writing Skills : Advertisement, Speech Writing Art Integration : Speech on given situation Unit 12 10.11.2025 to 21.11.2025 (11) Literature : Revision Art Integration : ALS Unit 13 24.11.2025 to 05.12.2025 (11) Literature : Revision Unit 14 08.12.2025 to 26.12.2025 (14) Literature : Revision Unit 15 & Rev. 05.01.2026 to 31.01.2026 (20) Literature : Revision ASSESSMENT SCHEDULE : Periodic Asst.-1 05.07.2025 to 11.07.2025 Reading : Unseen comprehensions Writing Skills : Poster Making, Speech Writing Grammar : Jumbled Sentences, Fill ups Literature : The Portrait of a lady A Photograph Periodic Asst.-2 11.08.2025 to 19.08.2025 Literature : Childhood, Birth, Adventure Grammar : Re-ordering of Sentences, Gap Filling, Transformation of Sentences, Reading Comprehension Writing Skills : Debate writing
--	---	---

Half Yearly Exams 15.09.2025 to 29.09.2025

Literature : (HORNBILL) : The Portrait of a lady, A Photograph, Discovering Tut-The Saga Continues, The Laburnum Top, Mother's Day, Voice of rain

SNAPSHOT : The Summer of the beautiful White Horse, We're not afraid to die if we are together, Reading Comprehension, Note Making,

Writing Skills : Creative writings, Poster, Speech writing, Classified Advertisement,

Grammar : Re-ordering of Sentences, Gap Filling

Periodic Asst.-3 03.11.2025 to 11.11.2025

Reading : Unseen Comprehensions

Writing Skills : Formal Letters

Grammar : Integrated Grammar, Jumbled Sentences, Fill ups

Literature : The Address, Silk Road, City

Periodic Asst.-4 08.12.2025 to 15.12.2025

Reading : Unseen Comprehensions

Writing Skills : Formal Letters

Grammar : Integrated Grammar, Jumbled Sentences, Fill ups

Literature : The Tale of Melon, Father to Son

Annual Exams 02.02.2026 onwards (Tenta.)

MATHEMATICS (041)

Book : Mathematics Text Book for by NCERT
Ref. Book : Mathematics Exemplar Problems for Class XI by NCERT

Teaching Objective of Senior Secondary Level Mathematics :

The main goal of mathematics education in schools is the mathematization of the child's thinking. Clarity of thought and pursuing assumptions to logical conclusions is central to the mathematical enterprise. There are many ways of thinking, and the kind of thinking one learns in mathematics is an ability to handle abstractions, and an approach to problem solving. Universalization of schooling has important implications for mathematics curriculum.

In our vision, school mathematics takes place in a situation where:

- (1) Children learn to enjoy mathematics
- (2) Children learn important mathematics
- (3) Mathematics is a part of children's life experience which they talk about
- (4) Children pose and solve meaningful problems
- (5) Children use abstractions to perceive relationships and structure
- (6) Children understand the basic structure of mathematics and
- (7) Teachers expect to engage every child in class.
- (8) To develop reverence and respect towards great Mathematicians for their contributions to the field of Mathematics

Unit 1 07.04.2025 to 17.04.2025 (08)

Topic : Chap 1 Sets

Sub Topics : Sets and their representations, Empty set, Finite and Infinite sets, Equal sets, Subsets, Subsets of a set and operation

Art Integration/Activity : To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subsets is 2^n .

Unit 2 21.04.2025 to 03.05.2025 (11)

Topic : Chap 1 Sets Cont.

Chap 2 Relations & Functions

Sub Topics : Ordered pairs, Cartesian product of sets, Number of elements in the Cartesian product of two finite sets, Cartesian product of the set of reals with itself (Up to $R \times R \times R$), Definition of relation, pictorial diagrams, domain, co-domain and range of a relation, Function as a special type of relation, Pictorial representation of a function, domain, co domain and range of a function, Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs, Sum, difference, product and quotients of functions.

Unit 3 05.05.2025 to 16.05.2025 (09)

Topic : Chap 1 Sets Cont. &

Chap 2 Relations & Functions Revision

Art Integration/Activity :

1. To verify that for two sets A and B, $n(A \times B) = pq$ and the total number of relations from A to B is 2^{pq} where $n(A) = p$ and $n(B) = q$.
2. To identify a relation and a function.

Unit 4 19.05.2025 to 30.05.2025 (10)

Topic : Chap 11 Introduction to Three-Dimensional Geometry

Sub Topics : Coordinate axes and coordinate planes in three dimensions, Coordinates of a point, Distance between two points.

Topic : Chap 13 Statistics

Sub Topics : Measures of Dispersion: Range, mean deviation, variance and standard deviation of ungrouped/grouped data

Art Integration/Activity : To explain the concept

of octants by three mutually perpendicular planes in space.		Unit 13 24.11.2025 to 05.12.2025 (11)	
Unit 5 23.06.2025 to 05.07.2025 (11)		Topic : Chap 10 Conic Sections	
Topic : Recap for New admission + Chap 5 Linear Inequalities		Sub Topics : Sections of a cone: circles, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.	
Sub Topics : Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line.		Unit 14 08.12.2025 to 26.12.2025 (14)	
Unit 6 07.07.2025 to 18.07.2025 (10)		Topic : Chap 12 Limits and Derivatives	
Topic : Chap 3 Trigonometric Functions		Sub Topics : Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions: trigonometric, exponential and logarithmic functions. Definition of derivative relate it to slope of tangent of the curve; derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions	
Sub Topics : Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin^2 x + \cos^2 x = 1$, for all x . Identities.		Unit 15 & Rev. 05.01.2026 to 31.01.2026 (20)	
Art Integration/Activity :		Topic : Revision for Annual Examination	
1. To verify the relation between the degree measure and the radian measure of an angle.		ASSESSMENT SCHEDULE :	
2. To plot the graphs of $\sin x$, $\sin 2x$, $2\sin x$ and $\sin 2x$, using same coordinate axes.		Extra Classes 19.05.2025 to 30.05.2025	
Unit 7 21.07.2025 to 02.08.2025 (11)		Topic : Unit 1 to 4 Recap	
Topic : Chap 4 Complex Numbers and Quadratic Equations		Periodic Asst.-1 05.07.2025 to 11.07.2025	
Sub Topics : Need for complex numbers, especially $\sqrt{-1}$, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane		Topic : Unit 1 to 4	
Topic : Chap 6 Permutations & Combinations		Periodic Asst.-2 11.08.2025 to 19.08.2025	
Sub Topics : Fundamental principle of counting. Factorial n , $(n!)$ Permutations and combinations, derivation of Formulae for $P(n,r)$ and $C(n,r)$ and their connections, simple applications.		Topic : Unit 5 to 7	
Unit 8 04.08.2025 to 22.08.2025 (14)		Half Yearly Exams 15.09.2025 to 29.09.2025	
Topic : Chap 14 Probability		Topic : Unit 1 to 9	
		Periodic Asst.-3 03.11.2025 to 11.11.2025	
		Topic : Unit 10	
		Periodic Asst.-4 08.12.2025 to 15.12.2025	
		Topic : Unit 11 to 13	
		Annual Exams 02.02.2026 onwards (Tenta.)	
		Topic : Full Syllabus	

PHYSICS

Books Prescribed/ Suggested

1. NCERT PHYSICS CLASS XI

Reference books :

2. New Simplified Physics By S.L. Arora

OBJECTIVES :

With this background, the Physics curriculum at the higher secondary stage attempts to :

Strengthen the concepts developed at the secondary stage to provide firm ground work and foundation for further learning Physics at the tertiary level more effectively and learning the relationship with daily-life situations;

- Develop conceptual competence in the learners and make them realize and appreciate the interface of Physics with other disciplines;
- ◆ Expose the learners to different processes used in Physics-related industrial and technological applications;
- ◆ Develop process-skills and experimental, observational, manipulative, decision-making and investigatory skills in the learners;
- ◆ Promote problem-solving abilities and creative thinking to develop interest in the learners in the study of Physics as a discipline;
- ◆ Understand the relationship between nature and matter on scientific basis, develop positive scientific attitude, and appreciate the contribution of Physics towards the improvement of quality of life and human welfare;
- ◆ Physics teaching-learning at the higher secondary stage enables the learners to comprehend the contemporary knowledge and develop aesthetic sensibilities and process skills.

- ◆ The experimental skills and process-skills developed together with conceptual Physics knowledge prepare the learners for more meaningful learning experiences and contribute to the significant improvement of quality of life. The learners would also appreciate the role and impact of Physics and technology, and their linkages with overall national development.

Unit 1 07.04.2025 to 17.04.2025 (08)

Topic : Ch-1 Units and Measurement

Learning Outcomes :

Learners will be able to understand Scope and application of Physics for the betterment of society. Learners will be able to understand the Need of measurement along with basics of fundamental and derived units and dimensional analysis.

Learners will be able to understand the significance and importance of dimensional analysis of any physical quantity

Art Integration/Lab Activity :

1. To measure diameter of a small spherical/cylindrical body using Vernier callipers.
2. To measure internal diameter and depth of a given beaker/calorimeter using vernier callipers and hence find its volume.
3. To measure diameter of a given wire using screw gauge.
4. To measure thickness of a given sheet using screw gauge.
5. To determine radius of curvature of a given spherical surface by a spherometer.

Unit 2 21.04.2025 to 03.05.2025 (11)

Topic : Ch-2 Motion in a straight Line

Learning Outcomes :

Learners will be able to understand the term motion as a relative term and classification of

motion.

Learners will be able to understand the significance of three equations of motion in our daily life along with it mathematical calculus analysis.

Art Integration/Lab Activity :

Presentation from the students

- Different Graphs
- Diagrams
- Question bank

Unit 3 05.05.2025 to 16.05.2025 (09)

Topic : Ch-3 Motion in a Plane

Learning Outcomes :

Learners will be able to understand basics of Scalar and Vector quantities along with its Mathematical analysis (Addition, subtraction, Product, Resolution, Projection).

Learners will be able to understand the concept of Projectile and its mathematical analysis (Parabolic path, Maximum height attained, Range, Time of flight, Resultant velocity)

Art Integration/Lab Activity :

1. To find the weight of a given body using parallelogram law of vectors.
2. Field study to see different types of projectile motion.

Unit 4 19.05.2025 to 30.05.2025 (10)

Topic : Ch-4 Law of Motion

Learning Outcomes :

Learners will be able to understand the Concept of force along all the three Newton's laws of motion.

Learners will be able to understand the Concept of concurrent forces and dynamics of circular motion

Art Integration/Lab Activity :

1. To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and

horizontal surface. 2. To find the downward force, along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination (θ) by plotting graph between force and $\sin \theta$. Unit 5 23.06.2025 to 05.07.2025 (11) Topic : Ch-5 Work and Energy Learning Outcomes : Learners will be able to understand the Basic concept of work done along with its mathematical analysis and Classification of work. Learners will be able to understand the Concept of mechanical energy, different forms energy and its conservation with necessary mathematical analysis. Learners will be able to understand the Mechanical power along with its Practical and SI units: Art Integration/Lab Activity : Presentation From the Students: • Different Graphs • Diagrams of different types of work • Question bank Unit 6 07.07.2025 to 18.07.2025 (10) Topic : Ch-6 System of particles and Rotational motion. Learning Outcomes : Learners will be able to understand the concept of centre of mass and centre of gravity of a body. Learners will be able to understand the Concept of Rotational Dynamics and equations of motion for rotating body. Learners will be able to understand the Analogy between Kinematics and Rotational Dynamics. Art Integration/Lab Activity : Presentation from the Students • Different Relation	• Diagrams • Question bank Unit 7 21.07.2025 to 02.08.2025 (11) Topic : Ch-7 Gravitation Learning Outcomes : Learners will be able to understand Concept of gravitational force between two bodies and its conservative nature. Learners will be able to understand the Concept of variation of acceleration due to gravity with height and depth. Art Integration/Lab Activity : Presentation from the Students • Different Graphs • Diagrams • Question bank Unit 8 04.08.2025 to 22.08.2025 (14) Topic : Ch-8 Mechanical Properties of solid Learning Outcomes : Learners will be able to understand Practicality of different types of Elastic moduli and Relation between stress and strain. Art Integration/Lab Activity : 1. To determine Young's modulus of elasticity of the material of a given wire. 2. To find the force constant of a helical spring by plotting a graph between load and extension. Unit 9 & Rev. 25.08.2025 to 12.09.2025 (15) Topic : Ch-8 Mechanical Properties of Solid and revision for Half Yearly Exams Unit 10 03.10.2025 to 17.10.2025 (11) Topic : Ch-9 Mechanical Properties of Fluids Learning Outcomes : Learners will be able to understand Practicality of Fluid dynamics in real life (Pascal's Law,	Bernoulli's theorem, Magnus Effect) Learners will be able to understand Concept of surface Tension and Surface energy and will be able to relate it with a daily life. Art Integration/Lab Activity : 1. To determine the surface tension of water by capillary rise method. 2. To determine the coefficient of viscosity of a given viscous liquid by measuring the terminal velocity of a given spherical body. Unit 11 24.10.2025 to 07.11.2025 (11) Topic : Ch-10 Thermal Properties of Matter Learning Outcomes : Learners will be able to understand the Different methods of heat transfer, Concept of thermal expansion and Laws of cooling. Art Integration/Lab Activity : 1. To study the relationship between the temperature of a hot body and time by plotting a cooling curve 2. To determine specific heat capacity of a given (i) solid (ii) liquid, by method of mixtures Unit 12 10.11.2025 to 21.11.2025 (11) Topic : Ch- 11 Thermodynamics Learning Outcomes : Learners will be able to understand the Concept of Heat, work and Internal energy of the system. Learners will be able to understand the Principle of Heat Engine and Refrigerator. Art Integration/Lab Activity : Presentation From the Students • Different Graphs of thermodynamic processes • Diagrams • Question bank Unit 13 24.11.2025 to 05.12.2025 (11) Topic : Ch-12 Kinetic Theory of Gases
--	--	---

Learning Outcomes :

Learners will be able to understand the concept of Pressure exerted by a gas on the walls of the container.

Learners will be able to understand the concept and relation between different specific heat capacities.

Art Integration/Lab Activity : To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between P and V, and between P and 1/V.

Unit 14 08.12.2025 to 26.12.2025 (14)

Topic : Ch-13 Oscillation

Learning Outcomes :

Learners will be able to understand the basic concept of generation of waves along with its Classification and Mathematical analysis and SHM.

Learners will be able to understand the concept of Different forms of energy possessed by a body executing SHM with its mathematical analysis.

Learners will be able to understand the concept of Resonance, free oscillations

Art Integration/Lab Activity : Using a simple pendulum, plot L-T and L-T² graphs. Hence find the effective length of a second's pendulum using appropriate graph.

Unit 15 & Rev. 05.01.2026 to 31.01.2026 (20)

Topic : Ch-15 Wave & Revision

Learning Outcomes :

Learners will be able to understand the Mathematical analysis of waves along its basic parameters (Amplitude, Frequency and Phase)

Learners will be able to understand the concept of reflection of waves along with concept of harmonics.

Art Integration/Lab Activity :

1. (i) To study the relation between frequency

and length of a given wire under constant tension using sonometer.

(ii) To study the relation between the length of a given wire and tension for constant frequency using sonometer.

2. To find the speed of sound in air at room temperature using a resonance tube by to resonance positions

EXAMINATION SCHEDULE :

Periodic Asst.-1 05.07.2025 to 11.07.2025

Topic : Ch-1, 2

Periodic Asst.-1 05.07.2025 to 11.07.2025

Topic : Ch-3

Half Yearly Exams 15.09.2025 to 29.09.2025

Topic : Ch-1, 2, 3, 4, 5, 6

Periodic Asst.-3 03.11.2025 to 11.11.2025

Topic : Ch-7

Periodic Asst.-4 08.12.2025 to 15.12.2025

Topic : Ch-8

Annual Exams 02.02.2026 onwards (Tenta.)

Topic : Complete Syllabus

CHEMISTRY

Prescribed Books :

1. NCERT Chemistry

2. NCERT Chemistry Exemplar

Rationale :

Higher Secondary is the most crucial stage of school education because at this juncture specialized discipline based, content-oriented courses are introduced. Students reach this stage after 10 years of general education and opt for Chemistry with a purpose of pursuing their career in basic sciences or professional courses like medicine, engineering, technology and other applied areas. Therefore, there is a need to provide learners with sufficient conceptual

background of Chemistry, which will make them competent to meet the challenges of academic and professional courses after the senior secondary stage.

The new and updated curriculum is based on disciplinary approach with rigor and depth taking care that the syllabus is not heavy and at the same time it is comparable to the international level. The knowledge related to the subject of Chemistry has undergone tremendous changes during the past one decade. Many new areas like synthetic materials, bio-molecules, natural resources, industrial chemistry are coming in a big way and deserve to be an integral part of chemistry syllabus at senior secondary stage. At international level, new formulations and nomenclature of elements and compounds, symbols and units of physical quantities floated by scientific bodies like IUPAC and CGPM are of immense importance and need to be incorporated in the updated syllabus. The revised syllabus takes care of all these aspects. Greater emphasis has been laid on use of new nomenclature, symbols and formulations, teaching of fundamental concepts, application of concepts in chemistry to industry/technology, logical sequencing of units, removal of obsolete content and repetition, etc.

Objectives :

The curriculum of Chemistry at Senior Secondary Stage aims to :

- ◆ promote understanding of basic facts and concepts in chemistry while retaining the excitement of chemistry.
- ◆ make students capable of studying chemistry in academic and professional courses (such as: medicine, engineering, technology) at tertiary level.

- ◆ expose the students to various emerging new areas of chemistry and apprise them with their relevance in future studies and their application in various spheres of chemical sciences and technology.
- ◆ equip students to face various challenges related to: health, nutrition, environment, population, weather, industries and agriculture.
- ◆ develop problem solving skills in students.
- ◆ expose the students to different processes used in industries and their technological applications.
- ◆ apprise students with interface of chemistry with other disciplines of science such as physics, biology, geology, engineering etc.
- ◆ acquaint students with different aspects of chemistry used in daily life.
- ◆ develop an interest in students to study chemistry as a discipline.
- ◆ integrate life skills and values in the context of chemistry.

Unit 1 **07.04.2025 to 17.04.2025** **(08)**

Topic : **Some Basic Concepts of Chemistry**

General Introduction: Importance and scope of chemistry. Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry.

Learning Objectives :

- To make them understand the mole concept.
- To clear the fundamental of stoichiometry.

Learning Outcomes : Student will learn about the concept of molarity and molality. Learn the

concept of stoichiometry and limiting reagent.

Art Integration :

- Mole concept can be taught by drawing the flow chart
- Molarity concept can be taught by practical.

Unit 2 **21.04.2025 to 03.05.2025** **(11)**

Unit 3 **05.05.2025 to 16.05.2025** **(09)**

Topic : **Structure of Atom**

Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle. Concept of orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and Completely filled orbitals.

Learning Objectives : To Make them understand the discoveries and models related to the structure of atom.

Learning Outcomes : Student will be able to understand development of Theory of discovery of atoms. They will learn about the quantum chemistry and various quantum numbers and their significance.

Art Integration : Bohr's model can be explained using the smart class quantum numbers can be explained by drawing concept map.

Unit 4 **19.05.2025 to 30.05.2025** **(10)**

Topic : **Classification of Elements and Periodicity in Properties**

Modern periodic law and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100

Learning Objectives : This topic is important for

the distinguishing the various elements present around us, what are nature of these elements, how these elements are classified in different form of periodic table

Learning Outcomes : Students will able to know the development leading to modern periodic table. Learn about the properties of various blocks in the Modern Periodic table. Concept of Ionization Enthalpy, Electron gain enthalpy

Unit 5 **23.06.2025 to 05.07.2025** **(11)**

Topic : **Chemical Bonding and Molecular Structure**

Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules. VSEPR theory, concept of hybridization, involving s, p and d orbitals and shapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules (qualitative idea only), hydrogen bond.

Learning Objectives : This chapter will lead the student to understand the bonding take place in between various molecules and compounds, what are the shapes of these molecules, how do they behave in various conditions.

Learning Outcomes : They will able to tell which structure will be more stable by using the concept of Formal Charge. By using VSEPR theory they will be able to determine the shapes of various covalent molecules. Concept of Hybridization is used to determine exact structure of the molecule which VBT is unable to explain and MOT will help us to explain why certain molecule are paramagnetic and others are not.

Art Integration : Shapes of molecules can be greatly explain using the Ball Stick Model, student themselves can make these models using clay and match stick.

Unit 6 **07.07.2025 to 18.07.2025** **(10)**
Topic : **States of Matter: Gases and Liquids**

Three states of matter, intermolecular interactions, types of bonding, melting and boiling points, role of gas laws in elucidating the concept of the molecule, Boyle's law, Charles law, Gay Lussac's law, Avogadro's law, ideal behavior, empirical derivation of gas equation, Avogadro's number, ideal gas equation, Deviation from ideal behavior.

Learning Objectives :

To make the basic understanding of Laws of gases and their mathematical interpretation to grab the behavior the gases.

To make them understand the concept of surface tension and their applications.

Learning Outcomes : Student will learn about the laws related to gases and nature of gases and difference between gases and vapors. Property of liquids such as viscosity and surface tensions

Art Integration :

- Surface Tension and Viscosity concept can be explained using lab activities.
- Chart can be prepared on the mathematical representation and graphical representation.

Unit 7 **21.07.2025 to 02.08.2025** **(11)**
Topic : **Chemical Thermodynamics**

Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions, First law of thermodynamics-internal energy and enthalpy, heat capacity and specific heat, measurement of ΔU and ΔH , Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Second law of Thermodynamics (brief

introduction). Introduction of entropy as a state function, Gibb's energy change for spontaneous and non-spontaneous processes, Third law of thermodynamics (brief introduction).

Learning Objectives : This chapter makes students to understand the concept of enthalpy, how the energy transfer from body to another, change in energy, feasibility of a chemical reactions.

Learning Outcomes : Students will gain an understanding of the application of mathematical tools to calculate thermodynamics properties and the relationship between microscopic properties of molecules with macroscopic thermodynamic observables.

Art Integration :

- System and Surroundings can be explain by using live examples.
- Concept maps are used to recall the different relationships between work done and state variables.
- Flow chart can be prepared on the various thermodynamics' laws and on their mathematical representation.

Unit 8 **04.08.2025 to 22.08.2025** **(14)**
Topic : **Equilibrium**

Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium- Le Chatelier's principle, ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids, acid strength, concept of pH, Henderson Equation, hydrolysis of salts (elementary idea), buffer solution, solubility product, common ion effect (with illustrative examples).

Learning Objectives : To make them understand

the equilibrium in chemical reactions. Difference between reversible reactions and irreversible reactions. Direction of reactions under equilibrium

Learning Outcomes : Students will understand the reversible reaction. They will able to explain what is Le Chatelier's Principle is, use Le Chatelier's Principle to predict the effect (if any) on equilibrium position of concentration, pressure, temperature and catalyst.

They will learn about the concept of Conjugate acids and Bases and the concept of pH.

Art Integration :

- Concept Map can be drawn for the full revision of the syllabus.
- Flow chart can be prepared on the concept of Acid and bases and on the concept of Conjugate acids and Conjugate bases with different examples.

Unit 9 & Rev. 25.08.2025 to 12.09.2025 **(15)**
Topic : **Redox Reactions**

Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number.

Learning Objectives : This chapter helps learners to understand the concept of redox reactions, the concept of oxidation number, etc.

Learning Outcomes : Students will able to understand the concept of oxidation and redox reactions. They will able to predict which reagent is oxidizing and which one is reducing. They will learn to balance the ionic equations and be ble to calculate the oxidation number method.

Manual Activity/Art Integration :

- Chart of various different examples can be made on oxidation state the along with their structure.
- Redox reactions can also be learnt by practical including redox titrations.

Unit 10 03.10.2025 to 17.10.2025 (11)

Topic : Hydrogen

Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen, hydrides-ionic covalent and interstitial, physical and chemical properties of water, heavy water, hydrogen peroxide preparation, reactions and structure and use; hydrogen as a fuel.

Learning Objectives : To make the students understand physical and chemical properties of hydrogen gas.

Learning Outcomes : Students will be able to discuss the position of the hydrogen in the periodic table and explain the preparation and uses of dihydrogen. They will be able to list out the different types of hydrides and their significance.

Art Integration : Flow chart can be prepared on the method of removal of temporary hardness and permanent hardness of water.

Unit 11 24.10.2025 to 07.11.2025 (11)

Topic : s-Block Elements (Alkali and Alkaline Earth Metals)

Group-1 and Group-2 Elements General introduction, electronic configuration, occurrence, anomalous properties of the first element of each group, diagonal relationship, trends in the variations of properties (such as ionization enthalpy, atomic and ionic radii), trends in chemical reactivity with oxygen, water, hydrogen and halogens, uses.

Learning Objectives : This Chapter explains the physical and chemical properties of s-Block elements. The application of the compounds formed by various s-block elements.

Learning Outcomes : They will be able to understand the characteristic features of the alkali metals, large scale preparations and properties of some industrially important compounds viz.

cement, plaster of paris, sodium hydroxide, sodium carbonate and sodium bicarbonate etc.. They will become familiar with biological significance of sodium, potassium, magnesium and calcium.

Art Integration : Flow chart can be prepared on the preparation and properties of various important compounds of s-block elements, such as cement, plaster of paris, sodium hydroxide, sodium carbonate and sodium bicarbonate etc.

Unit 12 10.11.2025 to 21.11.2025 (11)

Topic : p-Block Element

General introduction to p-Block Elements Group 13 Elements : General introduction, electronic configuration, occurrence, variation of properties, oxidation states trends in chemical reactivity, anomalous properties of the first element of the group, Boron - physical and chemical.

Group 14 : Elements : General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behavior of first elements. Carbon- catenation, allotropic forms, physical and chemical properties.

Learning Objectives : This Chapter explain the physical and chemical properties of p-Block elements. The application of the compounds formed by various p- block elements.

Learning Outcomes : They will be able to know the elements of p-block elements and their positions in the periodic table. Preparation and the properties of Boron containing compounds. They will be learn the properties of silicon containing compounds and properties.

Art Integration : Flow chart can be prepared on the preparation and properties of various important compounds of p- block elements, such as B_2H_6 , $B(OH)_3$ and silicon containing compounds.

Unit 13 24.11.2025 to 05.12.2025 (11)

Topic : Organic Chemistry - Some Basic Principles and Techniques

General introduction, methods of purification, qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond: inductive effect, electrometric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles, types of organic reactions.

Learning Objectives : To make them understand the basics, fundamentals of organic chemistry. This chapter clears the concept related to the stability of organic compounds.

Learning Outcomes : They will understand the basic concept of organic chemistry such as Inductive effect, Resonance, hyper conjugation. They will also learn about the Homolytic and heterolytic fission of covalent compounds.

Art Integration : Concept map can be made on the various effects such as inductive effect, Resonance effect, Hyper conjugation, etc.

Unit 14 08.12.2025 to 26.12.2025 (14)

Topic : Hydrocarbons

Classification of Hydrocarbons

Aliphatic Hydrocarbons

Alkanes- Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis.

Alkenes-Nomenclature, structure of double bond(ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation,

mechanism of electrophilic addition.
Alkynes-Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of π -hydrogen, halogens, hydrogen halides and water.

Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation, directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity.

Learning Objectives : To make the students understand the physical and chemical properties of hydrocarbons.

Learning Outcomes : They will be able to understand the properties of various types of hydrocarbons and their type of bonding present in them.

They will also be able to differentiate the type of isomers and be able to predict the products of addition reaction based on Markovnikov's rule and Anti-Markovnikov's rule.

Art Integration :

- Flow charts can be effective in remembering the hierarchy of types of Hydrocarbons.
- Concept map can also be drawn on the topic of Aromaticity.

Unit 15 & Rev. 05.01.2026 to 31.01.2026 (20)

Topic : Revision

BIOLOGY

Books Prescribed/Suggested :

1. NCERT Biology for class: 11
2. Trueman-XI

3. Together Class-XI

5. Practical File : Samar Practical file

6. Practical manual : Comprehensive

Objectives :

- To promote understanding of basic principles of Biology.
- To encourage learning of emerging knowledge and its relevance to individual and society.
- To promote rational/scientific attitude to issues related to population, environment and development.
- To enhance awareness about environmental issues, problems and their appropriate solutions.
- To create awareness amongst the learners about diversity in the living organisms and developing respect for other living beings.
- To appreciate that the most complex biological phenomena are built on essentially simple processes.

Unit 1 07.04.2025 to 17.04.2025 (08)

Topic : Ch-1 : Living World
Ch-2 : Biological classification

Learning outcomes :

- Gain knowledge about concepts of Biodiversity.
- Will be able to differentiate organisms, phenomena and processes based on certain characteristics and salient features, such as, prokaryotes and eukaryotes, plant cell and animal cell etc.
- Apply gained knowledge to daily life
- Can classify organisms based on certain characteristics/salient features systematically in more scientific and organized manner; such as five kingdom classification system of organisms under various hierarchical

structural organizations.

Art integration :

- Outline diagram of Five kingdom classification
- Diagram of different shapes of bacteria
- Diagram of slime moulds, diatoms, euglenoids and protozoans.
- Table of classes of fungi with features and diagrams
- Specimen preparation

Unit 2 21.04.2025 to 03.05.2025 (11)

Topic : Ch-3 Plant Kingdom
Ch-4 Animal Kingdom

Learning outcomes :

- Will admire and value diverse life forms
- Gain basic knowledge about Kingdom plantae w.r.t. habitat, alternation of generations, reproduction in various groups of plants and can correlate their structures with evolution
- To able to relate gained theory knowledge in practicals and daily life
- Gain basic knowledge about Kingdom Animalia w.r.t. habitat, reproduction in various groups of animals, and can correlate their structures details with evolution.

Art integration :

- Outline diagrams of different divisions of Plant kingdom
- Word wall of terms related to classification
- Specimen preparation
- Outline diagrams of different divisions
- Diagrams of different types of life cycles of plants : Haplontic, Haplo-Diplontic, Diplontic
- Outline diagram for classification of animal kingdom
- Table of scientific names of different animals

Unit 3 05.05.2025 to 16.05.2025 (09)

Topic : Ch-5 Morphology of flowering plants

Ch-6 Anatomy of flowering plants Learning outcomes : • Able to understand inner structural details of different plant tissue types. • Able to differentiate meristematic tissues and permanent tissues. • Able to understand and compare anatomy of dicot and monocot stem, root and leaves. • Able to comprehend the process of secondary growth and could relate to its importance in dicots Art integration : • Word wall for terms used in classification with meaning • Role play on usefulness of every plant part • Specimen preparation of underground stem and root modifications • Herbarium sheet preparation on inflorescence types • Floral diagram based on floral formula • Diagrams of types of flowers and aestivation diagrams • Diagram of monocot and dicot seeds. • Outline diagram of plant tissues • Diagram of parenchyma, collenchyma and sclerenchyma • Diagram of dicot and monocot stem, root and leaves. • Diagram of stomata observed in monocot and dicots. Unit 4 19.05.2025 to 30.05.2025 (10) Topic : Ch-7 Structural organization in animals Ch-8 Cell : the unit of life Learning outcomes : • Able to understand and relate the need and individuality of different tissue types in animals	• Able to differentiate between different types of epithelial tissues. • Able to formulate differences between three types of muscles and could relate to the importance of each one of them. • Could understand the features of nervous tissues and highlight its importance in human body. • Gain knowledge about concepts of Cell and apply the concepts to higher domains when needed • Able to apply knowledge gained in classifying cells as pro/eukaryotic • Could understand structures and function of various cell organelles Art integration : • Outline classification of animal tissues. • Diagram of epithelial tissues • Diagram of skeletal, smooth and cardiac muscles • PPT of life cycle of cockroach/earthworm • Diagram of prokaryotic and eukaryotic cell • Diagrams of cell organelles Unit 5 23.06.2025 to 05.07.2025 (11) Topic : Ch-10 Cell cycle and cell division Ch-13 Photosynthesis in higher plants Learning outcomes : • Could understand mitosis and meiosis as important cell divisions and able to formulate the differences between them apart from learning the features of each substage of them. • Gain Knowledge on different aspects of photosynthesis and will be able to correlate the role of different raw materials in it. • Will be able to understand energy transformation in the process	• Will be able to understand the role of different pigments in photosynthesis Art integration : • Diagrams of mitosis and meiosis substages. • Graph for various factors affecting photosynthesis rate. • Chromatogram generation / preparation of chlorophyll pigments • Table on discoveries and experiments done by scientists on photosynthesis Unit 6 07.07.2025 to 18.07.2025 (10) Topic : Ch-13 Photosynthesis in higher plants (contd.) Learning outcomes : • Will be able to analyze the differences in different pathways of carbon fixation and correlate the same with anatomical details of leaf types • Will be able to formulate differences between C3 and C4 Plants • Will be able to draw and analyse Blackman law of Limiting factors Art integration : • Flow chart of C3 and C4 pathways • Table of C3 and C4 plants • Graph of Blackman law of limiting factors Unit 7 21.07.2025 to 02.08.2025 (11) Topic : Ch-15 Plant growth and development Learning outcomes : • Will be able to differentiate between two types of plant growth : Arithmetic and geometric • Will be able to understand the role of various phytohormones in plant growth • Will be able to formulate the differences between short day, Long day and day neutral plants. Art integration : • Graphs of different types of growths.
--	---	--

• Structure of phytohormones • Diagram of flowering of short day, Long day and day neutral plant with respect to photoperiodic response Unit 8 04.08.2025 to 22.08.2025 (14) Topic : Ch-17 Breathing and exchange of gases Revision for Half Yearly Exams Learning Outcomes : • Will be able to understand the role of different organs of respiratory system • Will be able to understand the mechanism of breathing and can make out the differences between inspiration and expiration • Be able to analyse and interpret the graph of oxygen dissociation curve. • Will be able to understand the process of exchange of gases at lungs and tissues and the role of partial pressure of gases in it • Will be able to apply basic knowledge gained with various emergency situations like choking and unconsciousness and in various disorders. Art Integration : • Diagram of respiratory system • Graph of oxygen dissociation curve • Diagram of gaseous exchange at lungs and at tissues • Table of respiratory disorders, symptoms and treatment Unit 9 & Rev. 25.08.2025 to 12.09.2025 (15) Topic : Ch-14 : Respiration in Plants Learning outcomes : • Will be able to differentiate between breathing and respiration • Can understand the difference in aerobic and anaerobic pathways • Can evaluate the electron transport in ETS in oxidative phosphorylation	• Can understand and evaluate the Respiratory quotient values of different respiratory substrates Art integration : • Diagram of EMP pathways • Diagram of TCA pathways • Diagram of Electron transport system Unit 10 03.10.2025 to 17.10.2025 (11) Topic : Ch-9 : Biomolecules Ch-18 : Body fluids and circulation Learning outcomes : • Gain knowledge about concepts of Cellular molecules and apply the concepts to higher domains when needed • Will be able to classify biomolecules as biomacromolecules or biomicro molecules • Will be able to analyses and interprets graphs and figures such as, Enzyme activity, temperature, pH and substrate concentration graph • Will be able to understand the difference between nitrogenous bases, nucleoside and nucleotides and how nucleotides polymerise to form DNA Helix • To be able to read Blood reports • To be able to use ABO grouping in actual life situations. • Able to understand the structure of heart and its working • Will be able understand and explain the cardiac cycle and double circulation • To use gained knowledge in practical aspects of life like reading ECG. Art integration : • DNA model preparation using different color beads • Diagrams of Alanine, glycine and serine • Making 3 - D diagrams of different structures of proteins	• Enzyme activity graphs • Diagram of blood cells • Table of ABO blood grouping • Diagram of heart • Double circulation diagram • ECG graph • Table of cardiovascular diseases • Word wall on blood elements with meaning Unit 11 24.10.2025 to 07.11.2025 (11) Topic : Ch-19 : Movement and locomotion & Revision (3 days) Learning outcomes : • Will be able to understand the difference between locomotion and movement • Will be able to differentiate between amoeboid, ciliary, flagellar movement • Will be able draw striated muscle, contraction unit sarcomere in both relaxed and contracted state • Will be able to describe physiology of muscle contraction • Will be able to draw rib cage and can differentiate between different ribs type • Can formulate differences between white fibrous joints, synovial and cartilaginous joints Art integration : • Diagram of striated muscle • Diagram of sarcomere • Diagram of actin and myosin muscle proteins • Diagram of actin myosin cross bridges • Flow chart of mechanism of muscle contraction • Diagram rib cage Unit 12 10.11.2025 to 21.11.2025 (11) Topic : Ch-20 Excretory products and their elimination Learning outcomes : • To relate basic functioning of human body with
---	---	--

- respect to excretion
- Will be able to understand the role of various organs in excretory system
- Will be able to formulate differences between cortical and juxta medullary nephrons.
- Will be able to relate the role of kidneys in filtering blood and kidney malfunctioning to emergency situations like dialysis
- Will be able to draw the flowchart on regulation of kidney function

Art integration :

- Role play on different excretory mechanisms
- Diagram of Excretory system
- Diagram of nephron
- Model making of kidney
- Flowchart of urine formation
- Diagram of counter current mechanism
- Flow chart of Renin-Angiotensin mechanism

Unit 13 24.11.2025 to 05.12.2025 (11)**Topic** : Ch-21 Neural control and coordination**Learning outcomes :**

- Will be able to comprehend the need of neural control in humans
- Can draw the structure of brain and neuron

Art integration :

- Diagram of brain and neuron
- Table of types of neurons

Topic : Ch-22 Chemical control and Integration

- Can differentiate between unipolar, bipolar and multipolar neuron
- Can present and compare the role of central nervous system and peripheral nervous system
- Can explain the process of conduction of nerve impulse both ways i.e. across electrical synapses and chemical synapses

- Will be able to understand the need of chemical control via hormones
- Will be able to differentiate chemical control mechanism with neural control mechanism
- Will be able to comprehend and explain the mechanism of entry of hormone to target organ and its action
- Will be able to understand the location of various endocrine glands in human body, their hormones and the role of the hormones in chemical control.

Art integration :

- Diagram of chemical synapse
- Flow chart of conduction of nerve impulse
- Diagram of endocrine system
- Diagram of mode of action of hormone
- Table of endocrine glands, their hormones, and their function
- Diagram of mode of action of steroidal and proteinaceous hormone

Revision (Revision focus on pen paper tests followed by discussion + similar pattern questions as homework)

Unit 14 08.12.2025 to 26.12.2025 (14)**Topic** : Revision**Unit 15 & Rev.** 05.01.2026 to 31.01.2026 (20)**Topic** : Revision**ASSESSMENT SCHEDULE :****Periodic Asst.-1** 05.07.2025 to 11.07.2025**Topic** : Ch-1, 2 and Ch-4**Periodic Asst.-2** 11.08.2025 to 19.08.2025**Topic** : Ch-5, 8 and 13**Half Yearly Exams** 15.09.2025 to 29.09.2025**Topic** : Ch-1, 2, 3, 4, 5, 6, 8, 10 and 13**Periodic Asst.-3** 03.11.2025 to 11.11.2025**Topic** : Ch-7 and 18**Periodic Asst.-4** 06.12.2025 to 15.12.2025**Topic** : Ch-20 and 22**Annual Exams** 02.02.2026 onwards (Tenta.)**Topic** : Complete Syllabus**COMPUTER SCIENCE (083)****Prescribed Book : Computer Science by Preeti Arora (Sultan Chand)****Learning Outcomes :**

Student should be able to :

- develop basic computational thinking
- explain and use data types
- appreciate the notion of algorithm
- develop a basic understanding of computer systems-architecture, operating system and cloud computing
- explain cyber ethics, cyber safety and cybercrime
- understand the value of technology in societies along with consideration of gender and disability issues

Unit 1 07.04.2025 to 17.04.2025 (08)**Topic** : Basic Computer Organisation**Activity** : PPT on Computer Organisation**Unit 2** 21.04.2025 to 03.05.2025 (11)**Topic** : Types of Software Operating system**Activity** : PPT on types of Software**Unit 3** 05.05.2025 to 16.05.2025 (09)**Topic** : Boolean logic Number system**Unit 4** 19.05.2025 to 30.05.2025 (10)**Topic** : Introduction to problem solving**Activity** : Python basic commands**Unit 5** 23.06.2025 to 05.07.2025 (11)**Topic** : Python programming**Activity** : Programs of arithmetical operators**Unit 6** 07.07.2025 to 18.07.2025 (10)**Topic** : Conditional Statements

Activity	: Python programs of if else	
Unit 7	21.07.2025 to 02.08.2025	(11)
Topic	: Strings	
Activity	: Programs of Strings	
Unit 8	04.08.2025 to 22.08.2025	(14)
Topic	: Lists	
Activity	: Programs of Lists	
Unit 9 & Rev.	25.08.2025 to 12.09.2025	(15)
Topic	: Tuples	
Activity	: Programs of Tuple	
Unit 10	03.10.2025 to 17.10.2025	(11)
Topic	: Dictionary	
Activity	: Programs of Dictionary	
Unit 11	24.10.2025 to 07.11.2025	(11)
Topic	: Dictionary	
Activity	: Programs of Dictionary	
Unit 12	10.11.2025 to 21.11.2025	(11)
Topic	: Dictionary	
Activity	: Programs of Dictionary	
Unit 13	24.11.2025 to 05.12.2025	(11)
Topic	: Dictionary	
Activity	: Programs of Dictionary	
Unit 14	08.12.2025 to 26.12.2025	(14)
Topic	: Introduction to Python modules	
Activity	: Creating Python modules	
Unit 15 & Rev.	05.01.2026 to 31.01.2026	(20)
Topic	: Society, Law and Ethics	
Activity	: PPT on Society, Law and Ethics	

INFORMATICS PRACTICES

Prescribed Books :

1. Computer Science (NCERT)	
2. Preeti Arora (Sultan Chand Pub.)	
Unit 1	07.04.2025 to 17.04.2025
Topic	: Computer System
Activity	: PPT on Computer System Organization
	(08)

Unit 2	21.04.2025 to 03.05.2025	(11)
Topic	: Getting Started with Python	
Activity	: Interacting with Python IDLE	
Unit 3	05.05.2025 to 16.05.2025	(09)
Topic	: Python Programming Fundamentals	
Activity	: Basic computational thinking. Learn how to reason with variables, state transitions, conditionals, and iteration	
Unit 4	19.05.2025 to 30.05.2025	(10)
Topic	: Python Programming Fundamentals	
Activity	: Chart on data types Integer, Float, Char Double	
Unit 5	23.06.2025 to 05.07.2025	(11)
Topic	: Conditional and Looping Statements	
Activity	: Flowcharts Decision making trees, If else statement	
Unit 6	07.07.2025 to 18.07.2025	(10)
Topic	: Conditional and Looping Statements	
Activity	: Flow of control Decision making trees, If else statement	
Unit 7	21.07.2025 to 02.08.2025	(11)
Topic	: Conditional and Looping Statements	
Activity	: Flowcharts Decision making trees, If else statement	
Unit 8	04.08.2025 to 22.08.2025	(14)
Topic	: Lists	
Activity	: Execution on platform	
Unit 9 & Rev.	25.08.2025 to 12.09.2025	(15)
Topic	: Lists	

Activity	: Execution on platform	
Unit 10	03.10.2025 to 17.10.2025	(11)
Topic	: Dictionary	
Activity	: Execution on platform	
Unit 11	24.10.2025 to 07.11.2025	(11)
Topic	: Dictionary	
Activity	: Execution on platform	
Unit 12	10.11.2025 to 21.11.2025	(11)
Topic	: Database Concepts & SQL	
Activity	: Power Point Presentation Execution on platform SQL	
Unit 13	24.11.2025 to 05.12.2025	(11)
Topic	: SQL	
Activity	: Execution on platform SQL	
Unit 14	08.12.2025 to 26.12.2025	(14)
Topic	: Emerging Trends	
Activity	: Poster on Cyber Security	
Unit 15 & Rev.	05.01.2026 to 31.01.2026	(20)
Topic	: Revision	
ASSESSMENT SCHEDULE (Pen Paper) :		
Periodic Asst.-1	05.07.2025 to 11.07.2025	
Topic	: Unit-1, 2	
Periodic Asst.-2	11.08.2025 to 19.08.2025	
Topic	: Unit-3, 4	
Half Yearly Exams	15.09.2025 to 29.09.2025	
Topic	: Unit-1, 2, 3, 4, 5, 6	
Periodic Asst.-3	03.11.2025 to 11.11.2025	
Topic	: Unit-7	
Periodic Asst.-4	08.12.2025 to 15.12.2025	
Topic	: Unit-8	
Annual Exams	02.02.2026 onwards (Tenta.)	
Topic	: Entire Syllabus	

BUSINESS STUDIES

Prescribed Book : NCERT Text Book

Reference Books :

1. G.S. Alag

2. Subhash Day
3. Alka Dhawan
4. Tappan Pathak (bull's eye)

Rationale :

1. Business Studies is introduced at +2 stage of Senior Secondary Education as formal Commerce education is provided after ten years of schooling.
2. Business is a dynamic process that brings together technology, natural resources and human initiative in a constantly changing global environment. To understand the framework in which business operates, a detailed study of the organisation and management of business processes and its interaction with environment is required.
3. Globalisation has changed the way organisations transact their business. Information Technology is becoming part of business operations in more and more organisations.
4. Computerised system are fast replacing other systems, e-Business and other related concepts are picking up fast which need to be emphasized in the curriculum.

The course in Business Studies will prepare students to analyse, manage, evaluate and respond to changes which affect business. It provides a way of looking at and interacting with the business environment. It recognises the fact that business influences and is influenced by social, political, legal and economic forces. It allows students to appreciate that business is an integral component of society and develops an understanding of many social and ethical issues. Therefore, to acquire basic knowledge of business world, a course in Business Studies would be useful. It also informs students of a range

of study and work options and bridges the gap between school and work.

Objectives :

- ❖ To develop students with an understanding of the processes of business and its environment.
- ❖ To acquaint students with the dynamic nature and inter-dependent aspects of business.
- ❖ To develop an interest in the theory and practice of business, trade and industry.
- ❖ To acquaint students with practice of managing the operations and resources of business.
- ❖ To enable students to act more effectively and responsibly as consumers, employers, employees and citizens.

Unit 1 07.04.2025 to 17.04.2025 (08)

Topic : Evolution and fundamentals of Business

Learning Outcomes : After going through this unit, the student would be able to :

- To acquaint the History of Trade and Commerce in India
- Understand the meaning of business with special reference to economic and non-economic activities.

Art Integration :

- Flow charts
- Gaming and puzzles

Unit 2 21.04.2025 to 03.05.2025 (11)

Topic : Evolution and fundamentals of Business

Learning Outcomes : After going through this unit, the student would be able to :

- Discuss the characteristics of business.
- Understand the concept of business, profession and employment.
- Differentiate between business, profession and employment

- Appreciate the economic and social objectives of business.
- Examine the role of profit in business.
- Understand the broad categories of business activities- industry and commerce.
- Describe the various types of industries.
- Discuss the meaning of commerce, trade and auxiliaries to trade.
- Discuss the meaning of different types of trade and auxiliaries to trade.
- Examine the role of commerce-trade and auxiliaries to trade.
- Understand the concept of risk as a special characteristic of business.
- Examine the nature and causes of business risks.

Art Integration :

- Case studies
- Flow charts
- Role play

Unit 3 05.05.2025 to 16.05.2025 (09)

Topic : Forms of Business Organisations

Learning Outcomes : After going through this unit, the student would be able to :

- List the different forms of business organizations and understand their meaning.
- Identify and explain the concept, merits and limitations of Sole Proprietorship.
- Identify and explain the concept, merits and limitations of a Partnership firm.
- Understand the types of partnership on the basis of duration and on the basis of liability.
- State the need for registration of a partnership firm.
- Discuss types of partners –active, sleeping, secret, nominal and partner by estoppel.
- Understand the concept of Hindu Undivided Family Business.

- Identify and explain the concept, merits and limitations of Cooperative Societies.
- Understand the concept of consumers, producers, marketing, farmers, credit and housing cooperatives.
- Identify and explain the concept, merits and limitations of private and public companies.
- Understand the meaning of One Person Company.
- Distinguish between a private company and a public company.

Art Integration :

- Case studies
- Flow charts
- Role play
- Educational Tambola

Unit 4 **19.05.2025 to 30.05.2025** **(10)**

Topic : Formation of a company

Learning Outcomes : After going through this unit, the student would be able to :

- Highlight the stages in the formation of a company.
- Discuss the important documents used in the various stages in the formation of a company.
- Distinguish between the various forms of business organizations.
- Explain the factors that influence the choice of a suitable form of business organization.

Art Integration :

- Case studies
- Flow charts

Unit 5 **23.06.2025 to 05.07.2025** **(11)**

Topic : Public, Private and Global Enterprises

Learning Outcomes : After going through this unit, the student would be able to :

- Develop an understanding of Public sector and private sector enterprises

- Identify and explain the features, merits and limitations of different forms of public sector enterprises
- Develop an understanding of multinational company, public private partnership by studying their meaning and features.

Art Integration :

- Case studies
- Flow charts

Unit 6 **07.07.2025 to 18.07.2025** **(10)**

Topic : Business Services

Learning Outcomes : After going through this unit, the student would be able to :

- Understand the meaning and types of business services.
- Discuss the meaning and types of Business service Banking
- Develop an understanding of different types of bank account.
- Develop an understanding of the different services provided by banks
- Recall the concept of insurance

Art Integration :

- Flow charts
- Gaming and puzzles
- Role play

Unit 7 **21.07.2025 to 02.08.2025** **(11)**

Topic : Business Services

Learning Outcomes : After going through this unit, the student would be able to :

- Understand Utmost Good Faith, Insurable Interest, Indemnity, Contribution, Doctrine of Subrogation and Causa Proxima as principles of insurance
- Discuss the meaning of different types of insurance-life, health, fire, marine insurance.
- Understand the utility of different telecom services

Art Integration :

- Flow charts
- Gaming and puzzles
- Role play

Unit 8 **04.08.2025 to 22.08.2025** **(14)**

Topic : Emerging modes of Business Revision

Learning Outcomes : After going through this unit, the student would be able to :

- Give the meaning of e-business
- Discuss the scope of e-business.
- Appreciate the benefits of e-business.
- Distinguish e-business from traditional business

Art Integration :

- Flash cards
- Gaming and puzzles

Unit 9 & Rev. 25.08.2025 to 12.09.2025 **(15)**

Topic : • Social Responsibility and Business Ethics

• Sources of Business Finance

Learning Outcomes : After going through this unit, the student would be able to :

- State the concept of social responsibility.
- Examine the case for social responsibility.
- Identify the social responsibility towards different interest groups.
- Appreciate the role of business in environment protection.
- State the concept of business ethics.
- Describe the elements of business ethics.

Learning Outcomes : After going through this unit, the student would be able to :

- State the meaning, nature and importance of business finance.
- Classify the various sources of funds into owners' funds.
- State the meaning of owners' funds.

Unit 10 **03.10.2025 to 17.10.2025** **(11)**

Topic : Sources of Business Finance

Learning Outcomes : After going through this unit, the student would be able to :

- State the meaning of borrowed funds.
- Discuss the concept of debentures, bonds, loans from financial institutions, commercial banks, Trade credit and inter corporate deposits.
- Distinguish between owners' funds and borrowed funds.

Art Integration :

- Case studies
- Flow charts

Unit 11 24.10.2025 to 07.11.2025 (11)

Topic : Small Business

Learning Outcomes : After going through this unit, the student would be able to :

- Understand the concept of Entrepreneurship Development (ED), Intellectual Property Rights
- Understand the meaning of small business
- Discuss the role of small business in India
- Appreciate the various Government schemes and agencies for development of small scale industries, NSIC and DIC with special reference to rural, backward area.

Unit 12 10.11.2025 to 21.11.2025 (11)

Topic : Internal Trade

Learning Outcomes : After going through this unit, the student would be able to :

- State the meaning and types of internal trade.
- Appreciate the services of wholesalers and retailers.
- Explain the different types of retail trade
- Highlight the distinctive features of departmental stores, chain stores and mail order business.
- Understand the concept of GST

Art Integration :

- Case studies
- Flow charts

Unit 13 24.11.2025 to 05.12.2025 (11)

Topic : • International Business
• Project

Learning Outcomes : After going through this unit, the student would be able to :

- Understand the concept of international trade.
- Describe the scope of international trade to the nation and business firms.
- State the meaning and objectives of export trade.
- Explain the important steps involved in executing export trade.
- State the meaning and objectives of import trade.
- Discuss the important steps involved in executing import trade.
- Develop an understanding of the various documents used in international trade.
- Identify the specimen of the various documents used in international trade.
- Highlight the importance of the documents needed in connection with international trade transactions
- State the meaning of World Trade Organization.
- Discuss the objectives of World Trade Organization in promoting international trade.

Unit 14 08.12.2025 to 26.12.2025 (14)

Topic : Revision

Art Integration :

- Case studies
- Flow charts
- Role play
- Educational Tambola

Unit 15 & Rev. 05.01.2026 to 31.01.2026 (20)

Topic : Project Work

It is suggested to undertake this project after completing the unit on international trade. The

student(s) will be allowed to select any topic of their choice (mentioned in CBSE syllabus)

Art Integration :

- Flow charts

EXAMINATION SCHEDULE :

Periodic Asst.-1 05.07.2025 to 11.07.2025

Topic : Evolution and fundamentals of Business

Periodic Asst.-2 11.08.2025 to 19.08.2025

Topic : • Social Responsibility and Business Ethics
• Sources of Business Finance

Half Yearly Exams 15.09.2025 to 29.09.2025

Topic : • Evolution and fundamentals of Business
• Forms of Business Organisations
• Formation of a company
• Public, Private and Global Enterprises
• Business Services
• Emerging modes of Business

Periodic Asst.-3 03.11.2025 to 11.11.2025

Topic : • Social Responsibility and Business Ethics
• Sources of Business Finance

Periodic Asst.-4 08.12.2025 to 15.12.2025

Topic : International Business

Annual Exams 02.02.2026 onwards (Tenta.)

Topic : Full Syllabus

ACCOUNTANCY

Prescribed Books :

1. NCERT Text Book
2. T.S. Grewal
3. D.K. Goel

Objectives :

1. To familiarize students with new and emerging

areas in the preparation and presentation of financial statements. - To acquaint students with basic accounting concepts and accounting standards. - To develop the skills of designing need based accounting database. - To appreciate the role of ICT in business operations. - To develop an understanding about recording of business transactions and preparation of financial statements. Unit 1 07.04.2025 to 17.04.2025 (08) Topic : Meaning and Objective of accounting, Basic accounting terms Learning Outcomes : - describe the meaning, significance, objectives, advantages and limitations of accounting in the modern economic environment with varied types of business and non-business economic entities. - identify/recognise the individual(s) and entities that use accounting information for serving their needs of decision making. - explain the various terms used in accounting and differentiate between different related terms like current and non-current, capital and revenue. - give examples of terms like business transaction, liabilities, assets, expenditure and purchases. - explain that sales/purchases include both cash and credit sales/purchases relating to the accounting year. - differentiate among income, profits and gains. Art Integration : Flow Chart Unit 2 21.04.2025 to 03.05.2025 (11) Topic : Accounting principles,	process and basis of accounting, accounting standard, accounting equation Learning Outcomes : - state the meaning of fundamental accounting assumptions and their relevance in accounting - describe the meaning of accounting assumption and the situation in which an assumption is applied during the accounting process. - explain the meaning and objectives of accounting standards. - appreciate that various accounting standards developed nationally and globally are in practice for bringing parity in the accounting treatment of different items. - acknowledge the fact that recording of accounting transactions follows double entry system. - explain the bases of recording accounting transaction and to appreciate that accrual basis is a better basis for depicting the correct financial position of an enterprises. - understand the need of IFRS. - explain the meaning, objective and characteristic of GST. - explain the concept of accounting equation and appreciate that every transaction affects either both the sides of the equation or a positive effect on one item and a negative effect on another item on the same side of accounting equation. Art Integration : Gaming and Puzzles Unit 3 05.05.2025 to 16.05.2025 (09) Topic : Double entry system, origin of transaction, Journal, GST Learning Outcomes : - explain the effect of a transaction (increase or	decrease) on the assets, liabilities, capital, revenue and expenses. - appreciate that on the basis of source documents, accounting vouchers are prepared for recording transaction in the books of accounts. - develop the understanding of recording of transactions in journal and the skill of calculating GST. Art Integration : Flow Chart Unit 4 19.05.2025 to 30.05.2025 (10) Topic : Cash book, subsidiary books, ledger, trial balance Learning Outcomes : - explain the purpose of maintaining a Cash Book and develop the skill of preparing the format of different types of cash books and the method of recording cash transactions in Cash book. - describe the method of recording transactions other than cash transactions as per their nature in different subsidiary books. Art Integration : Flow Chart Unit 5 23.06.2025 to 05.07.2025 (11) Topic : Bank reconciliation statement Learning Outcomes : - appreciate that at times bank balance as indicated by cash book is different from the bank balance as shown by the pass book/bank statement and to reconciliation statement is prepared. - develop understanding of preparing bank reconciliation statement. Art Integration : Flow Chart Unit 6 07.07.2025 to 18.07.2025 (10) Topic : Depreciation Learning Outcomes : - explain the necessity of providing
--	--	--

depreciation and develop the skill of using different methods for computing depreciation. 2. understand the accounting treatment of providing depreciation directly to the concerned asset account or by creating provision for depreciation account. 3. appreciate the method of asset disposal through the concerned asset account or by preparing asset disposal account. Art Integration : Flow Chart Unit 7 21.07.2025 to 02.08.2025 (11) Topic : Project Learning Outcomes : appreciate the need for creating reserves and also making provisions for events which may belong to the current year but may happen in next year. Art Integration : Flow Chart Unit 8 04.08.2025 to 22.08.2025 (14) Topic : Project and Revision Learning Outcomes : appreciate the difference between reserve and reserve fund. Art Integration : Flow Chart Unit 9 & Rev. 25.08.2025 to 12.09.2025 (15) Topic : Provision and Reserve Bill of Exchange Learning Outcomes : 1. acquire the acknowledge of using bills of exchange and promissory notes for financing business transactions. 2. understand the meaning and distinctive features of these instruments and develop the skills of their preparation. 3. state the meaning of different terms used in bills of exchange and their implication in accounting. 4. explain the method of recording of bill transaction. Art Integration : Flow Chart	Unit 10 03.10.2025 to 17.10.2025 (11) Topic : Rectification of errors Learning Outcomes : 1. state the need and objectives of preparing trial balance and develop the skill of preparing trial balance. 2. appreciate that errors may be committed during the process of accounting. 3. understand the meaning of different types of errors and their effect on trial balance. 4. develop the skill of identification and location of errors and their rectification and preparation of suspense account. Art Integration : Flow Chart Unit 11 24.10.2025 to 07.11.2025 (11) Topic : Capital and Revenue. Financial Statement Learning Outcomes : 1. state the meaning of financial statements the purpose of preparing financial statements. 2. state the meaning of gross profit, operating profit and net profit and develop the skill of preparing trading and profit and loss account. 3. explain the need for preparing balance sheet. 4. understand the technique of grouping and marshalling of assets and liabilities. Art Integration : Flow Chart Unit 12 10.11.2025 to 21.11.2025 (11) Topic : Financial statement with adjustment Learning Outcomes : 1. appreciate that there may be certain items other than those shown in trial balance which may need adjustments while preparing financial statements. 2. develop the understanding and skill to do adjustments for items and their presentation in financial statements like depreciation,	closing stock, provisions, abnormal loss etc. 3. develop the skill of preparation of trading and profit and loss account and balance sheet. Art Integration : Flow Chart Unit 13 24.11.2025 to 05.12.2025 (11) Topic : Accounts of Incomplete Record Introduction to Computers Learning Outcomes : 1. state the meaning of incomplete records and their uses and limitations. 2. develop the understanding and skill of computation of profit/loss using the statement of affairs method. 3. state the meaning of a computer, describe its components, capabilities and limitations. 4. state the meaning of accounting information system. Art Integration : Flow Chart Unit 14 08.12.2025 to 26.12.2025 (14) Topic : Project and Revision It is suggested to undertake this project after completing the unit on preparation of financial statements. The student(s) will be allowed to select any business of their choice or develop the transaction of imaginary business. The project is to run through the chapters and make the project an interesting process. The amounts should emerge as more realistic and closer to reality. Unit 15 & Rev. 05.01.2026 to 31.01.2026 (20) Topic : Revision EXAMINATION SCHEDULE : Periodic Asst.-1 05.07.2025 to 11.07.2025 Topics : Meaning and objective of accounting, Basic accounting terms, Accounting equation, Journal Periodic Asst.-2 11.08.2025 to 19.08.2025 Topics :
--	--	---

Half Yearly Exams 15.09.2025 to 29.09.2025

Topics : Ch-1 to 16

Periodic Asst.-3 03.11.2025 to 11.11.2025

Topics : Bill of Exchange
Rectification of Error

Periodic Asst.-4 08.12.2025 to 15.12.2025

Topics : Financial statement with and without adjustments

Annual Exams 02.02.2026 onwards (Tenta.)

Topics : Ch-1 to 26

ECONOMICS

Prescribed Book : NCERT

Reference Books :

1. **Introductory Microeconomics by Sandeep Garg**

2. **Statistics for Economics by Sandeep Garg**
Teaching objective of economics at senior secondary level :

Economics is one of the Social Science which has great influence on every human being. At senior secondary stage, the learners are in a position to understand abstract ideas, exercise the power of thinking and to develop their own perception about economic activities.

Learning objectives of Economics :

- ◆ Understanding of some basic economic concepts and development of economic reasoning which the learners can apply in their day-to-day life as citizens, workers and consumers.
- ◆ Realisation of learners' role in nation building and sensitivity to the economic issues that the nation is facing today.
- ◆ Equipment with basic tools of economics and statistics to analyse economic issues.
- ◆ Development of understanding that there can

be more than one view on any economic issue and necessary skills to argue logically with reasoning.

Unit 1 07.04.2025 to 17.04.2025 (08)

Topics : Introduction of Micro Economics
Introduction of Statistics

Learning Outcomes :

Students would be able to understand :

1. The meaning of economy and distinguish between microeconomics and macroeconomics, positive and normative economics
2. Central problems of an economy: what, how and for whom to produce ?
3. Concepts of production possibility frontier and opportunity cost
4. Scope of Economics
5. Functions and importance of statistics in Economics

Art Integration :

1. Flow charts
2. Quiz
3. Poster Making: Prediction of Economic future of the country

Unit 2 21.04.2025 to 03.05.2025 (11)

Topics : Collection of Data

Learning Outcomes : Students would be able to understand and analyse :

1. The sources of data-primary and secondary
2. Collection of basic data with concepts of Sampling
3. The methods of collecting data
4. Some important sources of secondary data: Census of India and National Sample Survey

Art Integration :

1. Flow Charts
2. Study the income of 10 household through designing a questionnaire and collection of

Unit 3 05.05.2025 to 16.05.2025 (09)

Topics : Consumer's Equilibrium and Demand
Consumer's equilibrium
(Cardinal and Ordinal Approach)

Learning Outcomes : Students will be able to examine :

1. The meaning of Utility, Marginal Utility and concept of Law of Diminishing Marginal Utility analysis
2. The conditions of Consumer's equilibrium using marginal utility analysis
3. The importance of Indifference curve analysis of consumer's equilibrium
4. The role of budget line and its application in everyday life
5. Preferences of the consumer (indifference curve, indifference map)

Art Integration :

1. Role play to show and enact preference of consumers for one product over the other
2. Diagram Practice

Unit 4 19.05.2025 to 30.05.2025 (10)

Topics : Theory of Demand
Elasticity of Demand

Learning Outcomes : Student would be able to understand :

1. The meaning of demand and market demand
2. Determinants of demand
3. Demand schedule, demand curve, slope and law of demand
4. Movement along and shifts in the demand curve
5. Price elasticity of demand-factors affecting price elasticity of demand
6. Measurement of price elasticity of demand percentage-change method and total expenditure method.

Art Integration :

1. Diagram practice
2. Flowcharts
3. Prepare a PPT on Substitute and Complementary Goods (Taking real life examples)
4. Numerical practice

Unit 5 23.06.2025 to 05.07.2025 (11)**Topics** : Organisation of Data
Presentation of Data**Learning Outcomes** : Students would be able to :

1. Understand the meaning and types of variables; Frequency distribution.
2. Tabular presentation and diagrammatic presentation of data
3. Distinguish between Geometric forms bar diagrams and pie diagrams; Frequency diagrams (histogram, polygon and Ogive); Arithmetic line graphs (time series graph).

Art Integration : Diagrammatic presentation and graphic presentation of the impact of Covid-19 on Tourism, Hospitality and Entertainment Industry**Unit 6** 07.07.2025 to 18.07.2025 (10)**Topics** : Measures of Central Tendency-
Mean and Median**Learning Outcomes** : Students would be able to :

1. Understand the meaning and importance of Mean and Median
2. Solve Numerical of Mean and Median using Direct method, assumed mean method and Step deviation method.

Art Integration : Numerical practice**Unit 7** 21.07.2025 to 02.08.2025 (11)**Topics** : Measures of Central Tendency-
Mean and Median**Learning Outcomes** : Students would be able to :

1. Understand the meaning of mode and solve numerical by inspection and grouping method

2. Students will be able to know the difference between averages and positional averages

Art Integration : Numerical practice**Unit 8** 04.08.2025 to 22.08.2025 (14)**Topics** : Producer Behaviour and Supply
Production Function
Concepts of Cost**Learning Outcomes** : Student would be able to comprehend :

1. Meaning of Production Function-Short-Run and Long-Run
2. Total Product, average product and marginal product.

Art Integration :

1. Diagram and Numerical Practice
2. Case studies

Unit 9 & Rev. 25.08.2025 to 12.09.2025 (15)**Topics** : Producer Behaviour and Supply
Concepts of Cost**Learning Outcomes** : Student would be able to comprehend :

1. Returns to a factor
2. Cost-short run costs-Total cost, Total fixed cost, Total variable cost; Average cost; average fixed cost, Average variables cost and marginal cost-meaning and their relationships.

Art Integration :

1. Diagram and Numerical Practice
2. Case studies

Unit 10 03.10.2025 to 17.10.2025 (11)**Topics** : Concept of Revenue
Producer's Equilibrium**Learning Outcomes** : Student would be able to :

1. Understand the concept of Revenue-total revenue, Average revenue and Marginal revenue-meaning and their relationship.
2. Identify producer's equilibrium in terms of Marginal revenue marginal cost.

Art Integration :

1. Case study
2. Flowcharts

Unit 11 24.10.2025 to 07.11.2025 (11)**Topics** : Correlation**Learning Outcomes** : Students would be able to learn :

1. Meaning of correlation and its application in real life
2. Different methods of calculating (Karl Pearson's method : two variables ungrouped data, Spearman's rank correlation : Non Repeated Ranks and Repeated Rank

Art Integration : Numerical practice**Unit 12** 10.11.2025 to 21.11.2025 (11)**Topics** : Theory of Supply
Elasticity of Supply
Project**Learning Outcomes** : Students would be able to :

1. Understand the meaning of Supply and Market supply
2. Determinants of supply, supply schedule, supply curve and its slope.
3. Identify the cause of movements along and shifts in supply curve.
4. Meaning and measurement of price elasticity of supply elasticity of (percentage-change method.

Art Integration :

1. Project
2. Quiz based on topic
3. Project based on any current topic or suggested by CBSE

Unit 13 24.11.2025 to 05.12.2025 (11)**Topics** : Index Number
Perfect Competition**Learning Outcomes** : Student would be able to :

1. Understand the meaning of Index numbers

GEOGRAPHY

Prescribed books :

1. Fundamentals of Physical Geography : NCERT
2. India-Physical Environment : NCERT
3. India-Practical Work in Geography : NCERT

Rationale :

Geography is introduced as an elective subject at the senior secondary stage. After ten years of general education, students branch out at the beginning of this stage and are exposed to the rigours of the discipline for the first time. Being an entry point for the higher education, students choose geography for pursuing their academic interest and, therefore, need a broader and deeper understanding of the subject. For others, geographical knowledge is useful in daily lives of young people. Its contribution lies in the content, cognitive processes, skills and values that geography promotes and thus helps the students explore, understand and evaluate the environmental and social dimensions of the world in a better manner.

Since geography explores the relationship between people and their environment, it includes studies of physical and human environments and their interactions at different scales local, state/region, nation and the world. The fundamental principles responsible for the varieties in the distributional pattern of physical and human features and phenomena over the earth's surface need to be understood properly. Application of these principles would be taken up through selected case studies from the world and India. Thus, the physical and human environment of India and study of some issues from a geographical point of view will be covered in

greater detail. Students will be exposed to different methods used in geographical investigations.

Objectives :

The course in geography will help learner :

- ◆ Familiarise with key concepts and principles of Geography
- ◆ Search for, recognize and understand the processes and patterns of the spatial arrangement of the natural features as well as human aspects and phenomena on the earth's surface.
- ◆ Understand and analyse the interrelationship between physical and human environments and utilize such knowledge in reflecting on issues related to community.
- ◆ Apply geographical knowledge and methods of inquiry to emerging situations or problems at different levels-local, regional, national and global.
- ◆ Develop geographical skills, relating to collection, processing and analysis of spatial data/information and preparation of report including maps and graphs and use of computers where ever possible, and to be sensitive to issues.
- ◆ Utilize geographical knowledge in understanding issues concerning the community such as environmental issues, socio-economic concerns, and gender and become responsible and effective members of the community.

BOOK-1

Unit 1 **07.04.2025 to 17.04.2025** **(08)**

Topic : Ch-1 Geography as a Discipline
Ch-2 The Origin and Evolution of the Earth

Practical : Introduction to Maps

and its types-wholesale price index, consumer price index and index of industrial production Application of index number

2. Understand the meaning of Perfect competition and its features

Art Integration :

1. Tabular presentation of different types of index number
2. Numerical practice

Unit 14 **08.12.2025 to 26.12.2025** **(14)**

Topics : Price Determination and Simple Applications
Practical (Viva) based on the project

Learning Outcomes : Student will be able to :

1. Determine market equilibrium and effects of shifts in demand and supply. (Short run only)
2. To understand simple applications of demand and supply : price ceiling, price floor.

Art Integration :

1. Case study on current topic
2. Graphical presentation of price flooring and price ceiling.

Unit 15 & Rev. **05.01.2026 to 31.01.2026** **(20)**

Topics : REVISION

ASSESSMENT SCHEDULE :

Periodic Asst.-1 **05.07.2025 to 11.07.2025**

Topics : Unit-1 & 3

Periodic Asst.-2 **11.08.2025 to 19.08.2025**

Topics : Unit-2, 4 & 5

Half Yearly Exams **15.09.2025 to 29.09.2025**

Topics : Unit-1 to 8

Periodic Asst.-3 **03.11.2025 to 11.11.2025**

Topics : Unit-9 & 10

Periodic Asst.-4 **08.12.2025 to 15.12.2025**

Topic : Unit-11 & 12

Annual Exams **02.02.2026 onwards (Tenta.)**

Topic : Complete Syllabus

Learning Outcomes :

Ch-1. (i) Students will learn about the physical environment of the earth, human activities and their interactive relationships.

(ii) They will become familiar with Geography as an independent subject along with its branches.

Ch-2. In this chapter, students will learn origin and

evolution of the earth. They will be able to explain as to how the stars were formed, and many other facts about solar system

Art Integration/Activities : Practical class on maps and types of maps as per scales, essentials of making a map, advantages of map and globe.

Unit 2 21.04.2025 to 03.05.2025 (11)

Topic : Ch-3 Interior of the Earth
Ch-4 Distribution of Oceans and Continents

Practical : Map Scale

Learning Outcomes :

Ch-3. (i) In this chapter, students will learn about interior structure of the earth

(ii) They will know how scientists have gathered information about these layers and what the characteristics of each of these layers are.

Ch-4. In this chapter, students will learn about distribution of continents and ocean with the help of plate tectonic and continental drift theories.

(ii) They will be able to differentiate the drift theory and the plate tectonics.

Art Integration/Activities : Students will draw a well labelled diagram of the interior of the earth and write all important characteristics of each layer.

Practical class on map scales such as R.F., graphical method, statement of scale

Unit 3 05.05.2025 to 16.05.2025 (09)

Topic : Ch-5 Geomorphic Processes
Ch-6 Landforms and the Evolution

Learning Outcomes :

Ch-5. (i) In this chapter, students will learn about the surface of the earth on which they live.

(ii) They will be able to recall and differentiate the endogenic and exogenic forces responsible for making the surface of the earth uneven.

Ch-6. In this chapter, students will learn about land forms and their evolution.

(ii) They will learn how geomorphic agents like running water, ground water, wind, glaciers, and waves perform erosion and deposition due to which changes occur on the surface of the earth.

Unit 4 19.05.2025 to 30.05.2025 (10)

Topic : Ch-7 Composition and structure of Atmosphere
Ch-8 Solar Radiation and Temperature

Practical : Latitude, Longitude and Time

Learning Outcomes :

Ch-7. Students will learn about composition and structure of atmosphere and its significance.

Ch-8. In this chapter, students will learn and be able to explain the process of heating and cooling of the atmosphere and the resultant temperature distribution over the earth's surface.

Art Integration/Activities : Class Discussion on 'Role of Citizens in making earth a better place to live on.'

Practical class on Latitude, and Longitude and calculation of time difference of major cities

with the help of latitude and longitude

Unit 5 23.06.2025 to 05.07.2025 (11)

Topic : Ch-9 Atmosphere: Circulation and Weather
Ch-10 Water in the Atmosphere

Learning Outcomes :

Ch-9. In this chapter, students will learn about the causes of pressure differences, the forces that control the atmospheric circulation, the turbulent pattern of wind, the formation of air masses, the disturbed weather when air masses interact with each other and the phenomenon of violent tropical storms.

Ch-10. In this chapter, students will learn about presence of water in the atmosphere in three forms-gaseous, liquid and solid.

(ii) They will be able to explain as to how exchange of water between the atmosphere, the oceans and the continents continues through the processes of evaporation, transpiration, condensation and precipitation.

Unit 6 07.07.2025 to 18.07.2025 (10)

Topic : Ch-11 World Climate and Climate Change (Project Based)
Ch-12 Water (Oceans)
Ch-13 Movements of Ocean Water

Learning Outcomes :

Ch-11. (i) Students will learn how world climate can be studied by organizing information and data on climate and synthesizing them in smaller units for easy understanding, description and analysis.

(ii) They will become familiar with Koeppen's Scheme of classification of climate.

Ch-12. Students will learn about water and its significance for the creatures on the earth.

Ch-13. (i) Students will get to know how external forces like sun, moon, and the winds influence

the movement of ocean water. (ii) They will be able to explain the characteristics of waves Art Integration/Activities : • Debate on 'Climate Change' • Students will be asked to make a Power Point presentation or short movie to be shown to all the students in the school to motivate them towards saving water. • Students will be asked to prepare a list of currents which found in Pacific, Atlantic and Indian Oceans. They will also locate and label these currents on the world map. Unit 7 21.07.2025 to 02.08.2025 (11) Topic : Ch-14 Biodiversity and Conservation (Project Based) Learning Outcomes : Ch-14. In this chapter, students will learn about biodiversity, its importance, causes of loss of biodiversity & its conservation Art Integration/Activities : Map Activity : Students will be asked to locate and label the mega diversity Centres and ecological hotspots on the world map. BOOK-2 Unit 8 04.08.2025 to 22.08.2025 (14) Topic : Ch-1 India-Location Practical : Map Projection Learning Outcomes : Ch-1. Students will learn various facts that explain India's location and size in the world. Art Integration/Activities : Map Based Activity Practical class on map projections Unit 9 & Rev. 25.08.2025 to 12.09.2025 (15) Topic : Ch-2 Structure and Physiography Ch-3 Drainage Learning Outcomes : Ch-2. (i) Students will become familiar with	geological divisions of India and their main features. (ii) They will be able to locate them on the map of India. Ch-3. Students will learn about drainage systems of India and will be able to compare or differentiate them. Art Integration/Activities : Map Based Activity Unit 10 03.10.2025 to 17.10.2025 (11) Topic : Ch-4 Climate Practical : Topographical Maps Learning Outcomes : Ch-4. Students will learn about India's climate and factors affecting it, seasons in India and their features. Art Integration/Activities : Practical class on conventional signs and symbols and reading of the topographical maps. Unit 11 24.10.2025 to 07.11.2025 (11) Topic : Ch-5 Natural Vegetation Learning Outcomes : Ch-5. (i) Students will be able to classify Indian forests. (ii) They will be able to explain the characteristic features of each type. Art Integration/Activities : • Map Based Activity and • 'Ramp Walk' to create general awareness on Endangered species of plants and animals in the Morning Assembly. Unit 12 10.11.2025 to 21.11.2025 (11) Topic : Ch-5 Natural Vegetation (contd.) Learning Outcomes : Students will be able to suggest some measures to conserve and protect flora and fauna in our country. Art Integration/Activities : • Map based activity • Practical class on weather maps	Unit 13 24.11.2025 to 05.12.2025 (11) Topic : Ch-7 Natural Hazards and Disasters (Project Based) Learning Outcomes : Ch-7. In this chapter, students will study about some of the undesirable and bad changes caused by earthquakes, floods and wars etc. (ii) They will be able to suggest some measures to manage these disasters and create public awareness as the disaster preparedness. Art Integration/Activities : Students will make a project and have presentation of the same in the classroom. Unit 14 08.12.2025 to 26.12.2025 (14) Topic : Practical on Weather Maps Learning Outcomes : Making students to read the weather maps and developing understanding of the signs and symbols used on weather maps. Art Integration/Activities : Students will make the practical file to be assessed in the annual exam. Unit 15 & Rev. 05.01.2026 to 31.01.2026 (20) Topic : Revision for Annual Examination will be done through written class tests, holding doubt class, holding discussions on selective topics, doing probing questioning in the class, issuing sample paper and discussing the same in the class. EXAMINATION SCHEDULE : Periodic Asst.-1 05.07.2025 to 11.07.2025 Topic : Book-1 : Ch-1, 2, 3, 4 Periodic Asst.-2 11.08.2025 to 19.08.2025 Topic : Book-2 : Ch-1, 2 and 3 Half Yearly Exams 15.09.2025 to 29.09.2025 Topic : Unit-1 to 7 Periodic Asst.-3 03.11.2025 to 11.11.2025 Topic : Book-2 : Ch-4 and 5
--	---	--

Periodic Asst.-4 08.12.2025 to 15.12.2025

Topic : Book-1 : Ch-8, 9 and 10

Annual Exams 02.02.2026 onwards (Tenta.)

Topic : All units (Book 1 and 2)

POLITICAL SCIENCE

Prescribed Book :

Book-1 : Indian Constitution at Work : NCERT

Book-2 : Political Theory : NCERT

Unit 1 07.04.2025 to 17.04.2025 (08)

Topic : Ch-1 Constitution why and How ?

Learning Outcomes : Appreciate the need for a constitution and understand the historical processes and the circumstances in which Constitution drafted.

Activities : Draw a Preamble on A4 size sheet

Unit 2 21.04.2025 to 03.05.2025 (11)

Topic : Ch-2 Rights in the Indian Constitution

Learning Outcomes : Analyze the working of the Constitution in real life and learn to respect others.

Activities : Flow charts on fundamental rights

Topic : Ch-3 Election and Representation

Learning Outcomes : Identify different types and methods of election

Activities : Mock election in the classroom

Unit 3 05.05.2025 to 16.05.2025 (09)

Topic : Ch-4 Executive

Learning Outcomes : Recognize the meaning of Executive and compare the parliamentary and Presidential Executive.

Activities : Comparative Analysis

Unit 4 19.05.2025 to 30.05.2025 (10)

Topic : Ch-5 Legislature

Learning Outcomes : Describe the Law-making process in India.

Activities : Passing a bill- class activity.

Topic : Ch-6 Judiciary

Learning Outcomes : Analyze the reasons why judiciary has become proactive.

Activities : Moot Court

Unit 5 23.06.2025 to 05.07.2025 (11)

Topic : Ch-7 federalism

Learning Outcomes : Explain the basic features of federation and identify the different levels of the Government.

Activities : Map activity

Unit 6 07.07.2025 to 18.07.2025 (10)

Topic : Ch-8 Local Government

Learning Outcomes : Understand the Panchayati Raj System of local government in India.

Activities : Timeline and Flow chart

Unit 7 21.07.2025 to 02.08.2025 (11)

Topic : Ch-9 Constitution as a Living document

Learning Outcomes : Analyze the working of the Constitution.

Activities : Debate- Amendment validity

Unit 8 04.08.2025 to 22.08.2025 (14)

Topic : Ch-10 The Philosophy of the Constitution

Learning Outcomes : Recognize the Core features of the Indian Constitution.

Activities : Quiz

Unit 9 & Rev. 25.08.2025 to 12.09.2025 (15)

Book 2

Topic : Ch-1 Political Theory: An Introduction

Learning Outcomes : Explain the innate ideas of various Political theories

Activities : Reading the work of great thinkers

Unit 10 03.10.2025 to 17.10.2025 (11)

Topic : Ch-2 Freedom

Learning Outcomes : Explain the idea introduced by J.S. Mill in Harm Principal.

Activities : Quiz and comparative Analysis

Unit 11 24.10.2025 to 07.11.2025 (11)

Topic : Ch-3 Equality

Learning Outcomes : Understand the moral and Political ideals of equality

Activities : Role Play and Skit on equality

Unit 12 10.11.2025 to 21.11.2025 (11)

Topic : Ch-4 Social Justice

Learning Outcomes : Classify the different dimensions of Justice

Activities : Debate on free market vs State intervention

Unit 13 24.11.2025 to 05.12.2025 (11)

Topic : Ch-5 Rights

Learning Outcomes : Define Rights and its need

Activities : Discussion- Importance of Rights

Unit 14 08.12.2025 to 26.12.2025 (14)

Topic : Ch-6 Citizenship

Learning Outcomes : Explain the meaning of Citizenship and CAA

Activities : Interpretation of newspaper articles

Unit 15 & Rev. 05.01.2026 to 31.01.2026 (20)

Topic : Ch-7 Nationalism

Learning Outcomes : Understand the concept of nation and nationalism

Activities : Textual Explanation

Topic : Ch-8 Secularism

Learning Outcomes : Compare western and Indian secularism

Activities : Inquiry based learning

PSYCHOLOGY

Books Recommended :

PSYCHOLOGY-11 (NCERT)

General Objectives :

♦ To develop appreciation about human and

behaviour in the context of learners' immediate society and environment. ◆ To develop in learners an appreciation of the nature of Psychological knowledge and its application to various aspects of life. ◆ To enable learners to become perceptive, socially aware and self-reflective. ◆ To facilitate students' quest for personal growth and effectiveness, and to enable them to become responsive and responsible citizens. Unit 1 07.04.2025 to 17.04.2025 (08) Theory : Psychology as a Discipline Understanding Mind and Behaviour Evolution of Psychology Learning Outcomes : 1. Learners will develop a comprehensive understanding of the definition and scope of psychology, recognizing it as a distinct academic discipline. 2. Learners will differentiate psychology as a natural science, comprehending its empirical and research-oriented nature, while also categorizing it as of social science focussing on human behaviour within societal contexts. 3. Learners will comprehend fundamental concepts in psychology, critically assess common perception, and trace historical development of the discipline, recognizing key milestone and influential figures. Art Integration/Lab Activity : Psyche Craft : Unveiling diverse perspectives activity : To craft intricate mind maps blending words, images, and doodles to express diverse interpretation or psychology. Compare the work with text book definitions.	Unit 2 21.04.2025 to 03.05.2025 (11) Theory : • Development of Psychology in India • Branches of Psychology Popular Notions about the discipline of Psychology • Psychology and other Disciplines • Psychology in everyday life Learning Outcomes : 1. Learners will explore the historical growth of psychology in India, understanding key contributors and milestones. 2. Learners will categorize various branches of psychology, grasping their distinct focuses and applications. 3. Learners will recognize psychology's interdisciplinary nature, understanding its connections with sociology, biology, and neuroscience. 4. Learners will apply psychology concepts to real-life scenarios, enhancing their understanding of everyday situations and personal well-being. Art Integration/Lab Activity : Psychology Explorers Activity : To observe and interpret behaviour within the school, exploring the motivation behind actions. Prepare a reflective journals and engage in discussions to apply psychological insight in improving communication, relationship and well-being within the school community. Unit 3 05.05.2025 to 16.05.2025 (09) Theory : Goals of psychology Enquiry Nature of psychological Data Learning Outcomes : 1. Learners will recognize and understand the diverse goals of psychological inquiry, spanning description, explanation, prediction, and control of behaviour.	2. Learners will grasp the nature of psychological data, understanding how qualitative and quantitative data are collected, analyzed, and interpreted in psychological Art Integration/Lab Activity : Project : Undertake an extensive project that entails thorough exploration of a selected topic, employing various methods of inquiry such as observation, surveys, interviews, questionnaire, or small-scale studies. This diverse approach facilitate a meticulous examination, providing nuanced insights and holistic understanding of the subject matter. The project serves as a valuable opportunity to apply different research methodologies, fostering both practical research skills and a deeper comprehension of the chosen topic. Unit 4 19.05.2025 to 30.05.2025 (10) Theory : • Methods in Psychology analysis of data • Limitation of psychological enquiry • Ethical issues Learning Outcomes : 1. Learners will comprehend research methods in psychology, encompassing observational techniques, experimental and correlational approaches, survey research, and psychological testing, analyzing their characteristics, strengths, and limitation in the study of human behaviour. 2. Learners will understand a clear differentiation between quantitative and qualitative methods for analysis of data in psychology research. 3. Learners will critically assess limitation in psychological inquiry, recognizing methodological constraints. 4. Learners will demonstrate awareness of ethical consideration in psychological
--	---	---

research, applying ethical principles in their studies. Unit 5 23.06.2025 to 05.07.2025 (11) Topic : Meaning of Development Factors influencing Developments Context of Development Learning Outcomes : Learners will articulate the meaning and process of development, recognizing the influential interplay of heredity, environment, and context on human growth. Art Integration/Lab Activity : Project : To choose a topic from Human Development chapter and utilize a chosen research method for concise project. Whether through observations, surveys, or interviews, this project aims to enhancing research skills and provide profound insights in to the chosen topic. The conclusion will effectively synthesize findings, emphasizing broader implications for human developments. Unit 6 07.07.2025 to 18.07.2025 (10) Theory : Developmental stages Learning Outcomes : Learners will fosters a comprehensive understanding of the multifaceted aspects of human growth across the lifespan. Art Integration/Lab Activity : Project : To choose a topic from Human Development chapter and utilize a chosen research method for concise project. Whether through observations, surveys, or interviews, this project aims to enhancing research skills and provide profound insights in to the chosen topic. The conclusion will effectively synthesize findings, emphasizing broader implications for human developments. Unit 7 21.07.2025 to 02.08.2025 (11) Theory : Knowing the World Nature and varieties of Stimulus Sense Modalities	Attentional processes Learning Outcomes : 1. Learners will acquire a comprehensive understanding of sensory processes. 2. Learners will proficiently explain various types of attention, including selective, divided and sustained attention. Art Integration/Lab Activity : Sensory Idiom Hunt Activity : To pair into small groups and dive into the world idioms by reading embark on a thrilling wide scavenger hunt. Match each idiom with a sensory objects hidden in the allotted area. Unit 8 04.08.2025 to 22.08.2025 (14) Theory : • Perceptual processes • The Perceiver • Principles of Perceptual Organisation • Perception of space, depth and distance • Perceptual constancies • Illusions • Socio-cultural influences on Perception Learning Outcomes : 1. Learners will demonstrate competence in analyzing challenges related to form and space perception, including visual illusions and depth perceptions. 2. Learners will exhibit expertise in examining how socio-cultural factors shape perceptual experiences and interpretation learners will apply reflective practices, connecting theoretical knowledge to practical scenarios, enhancing awareness of everyday sensory experiences. Art Integration/Lab Activity : Perception Puzzlers : To create optical illusions using everyday materials. This fun-filled activity explores the playful misinterpretation of stimuli, sparking creativity and lively	discussions quickly nature of our visual senses. Unit 9 & Rev. 25.08.2025 to 12.09.2025 (15) Theory : Learning Nature of Learning Paradigms of Learning Classical conditioning Learning Outcomes : 1. Learners will gain of comprehensive understanding of learning. 2. Learners will explore different types : classical conditioning, operant, conditioning observational learning, and procedural learning. Art Integration/Lab Activity : Experiment : To study the effect of meaningfulness of learning using list of meaningful words to nonsense syllables. Unit 10 03.10.2025 to 17.10.2025 (11) Theory : Operant/Instrumental conditioning Observational Learning Cognitive Learning Verbal Learning Skill Learning Factors Facilitating Learning Learning Disabilities Learning Outcomes : 1. Learners will explore determinant of learning considering environmental cognitive and emotional factors. 2. Practical applications and case studies provide learners with real-word insights. Art Integration/Lab Activity : Experiment : To study the effect of meaningfulness of learning using list of meaningful words to nonsense syllables. Unit 11 24.10.2025 to 07.11.2025 (11) Theory : Nature of memory Information processing Approach
--	---	---

Memory systems Level of Processing Types of Long Term Memory Learning Outcomes : 1. Learners will comprehend the nature of memory. 2. Learners will distinguish between various types of memory, including sensory, short term, and long-term memory. 3. Learners will be able to understand the level of processing of information and categories of long-term memory. Art Integration/Lab Activity : Experiment : To determine the span of attention digits in the subjects Unit 12 10.11.2025 to 21.11.2025 (11) Theory : Nature and causes of forgetting Enhancing Memory Learning Outcomes : 1. Learners will understand the nature and causes of forgetting, exploring factors such as interference, retrieval failure, and decay. 2. Learners will acquire strategies for improving memory, including mnemonic devices, rehearsal techniques, and effective encoding methods. Unit 13 24.11.2025 to 05.12.2025 (11) Theory : Nature of thinking The Process of Thinking Problem Solving Reasoning and Decision-Making Nature and Process of Creative Thinking Nature of Motivation Thought and Language Development of Language and Language use Nature of Motivation	Types of Motives Maslow's Hierarchy of Needs Learning Outcomes : 1. Learners will comprehend the nature of thinking and reasoning 2. Learners will showcase an understanding of cognitive processes involving in problem solving and decision-making. 3. Learners will grasp the nature of creative thinking, acquiring strategies for enhancement. 4. Learners will discern the relationship between language and thought. 5. Learners will describe the process of language development and its practical application. 6. Learners will comprehend the nature of human motivation. Art Integration/Lab Activity : Case Study Scenario : Select a brief case study scenario and present it, exploring the applications of creative thinking. Detail the challenges faced, methods used for brainstorming, and how diverse perspectives were integrated. Assess the project's success, highlighting the innovative aspects, and propose future strategies for fostering creativity in similar endeavors. Theory : Nature of Emotions Expressions of Emotions Culture and Emotional Expression and Labeling Managing Negative Emotions Enhancing Positive Emotions Learning Outcomes : 1. Learners will describe important motives influencing human behaviour, considering factors like achievement, affiliation, and	power. 2. Learners will articulate the nature of emotional expressions, exploring how emotions manifest and influence behaviour. 3. Learners will understand the intricate relationship between culture and emotion, recognizing how cultural context shapes emotional experiences. 4. Learners will acquire skills in managing their own emotions developing strategies for emotional regulation and well-being. Art Integration/Lab Activity : Activity : 1. Examine recent cases of well-known individuals who have undergone intense emotional experiences. Investigate the sequence of events leading up to these situations and explore the strategies these individuals employed to overcome their emotional challenges. 2. Consider a recent setback or failure. Describe how you coped with disappointment and explore ways the group collectively handles setbacks. Unit 14 08.12.2025 to 26.12.2025 (14) Topic : Revision Unit 15 & Rev. 05.01.2026 to 31.01.2026 (20) Topic : Revision EXAMINATION SCHEDULE : Periodic Asst.-1 05.07.2025 to 11.07.2025 Topic : Ch-1 Periodic Asst.-2 11.08.2025 to 19.08.2025 Topic : Ch-2, 3 Half Yearly Exams 15.09.2025 to 29.09.2025 Topic : Ch-1, 2, 3, 4 Periodic Asst.-3 03.11.2025 to 11.11.2025 Topic : Ch-5, 6 Periodic Asst.-4 08.12.2025 to 15.12.2025 Topic : Ch-7, 8
--	---	---

Annual Exams : 02.02.2026 onwards (Tenta.)

Topic : Complete Syllabus

MASS MEDIA STUDIES

Prescribed Book : CBSE Resource Material

Unit 1 : 07.04.2025 to 17.04.2025 (08)

Topics : Introduction to media
Aspects of Mass Communication
Barriers of communication

Learning Outcomes :

- ◆ Students will develop and understanding about media.
- ◆ Can learn about the potential and limitations of various media forms
- ◆ Demonstrate their knowledge about different Trends of media available
- ◆ Students can learn how media influence their understanding of reality
- ◆ Students can demonstrate the understanding of the effect of mass communication upon the society
- ◆ Student will learn about the various barriers which comes in communication
- ◆ Students can develop a deep sense enable to overcome such barriers

Art Integration :

- ◆ Group Discussion
- ◆ Case study

Unit 2 : 21.04.2025 to 03.05.2025 (11)

Topics : Entrepreneurship
Evolution of cinema

Learning Outcomes :

- ◆ Understand about the entrepreneurship and the barriers to become an entrepreneur
- ◆ Will be able to demonstrate the behavioural and entrepreneurial competencies
- ◆ Students will be able to demonstrate their

understanding of the pre-production, production and post production will making process

- ◆ Student will be able to demonstrate abroad knowledge of film history National Cinemas and modes of production
- ◆ Students will be able to differentiate between theatre and cinema

Art Integration :

- ◆ Mind Map
- ◆ Case study
- ◆ Portfolio making activity

Unit 3 : 05.05.2025 to 16.05.2025 (09)

Topics : Evolution of TV
Print media and Its type

Learning Outcomes :

- ◆ Learn to improve the perception of understanding TV
- ◆ Students will be able to understand the specificity of television
- ◆ Students will be able to understand the distinction between cinema and TV
- ◆ Students will be able to learn about genres of TV programs
- ◆ Will develop understanding about non fiction formats of TV shows such as television News Bulletin, TV documentaries game shows, dance programs etc. And fiction general entertainment programs such as drama, crime, horror shows, animated series etc.
- ◆ Demonstrate the purpose of TV programming
- ◆ Students will also be able to know about the scheduling strategies such as dayparting, cross programming, theming, counter programming etc.
- ◆ Students will be able to know about use and analyse newspapers
- ◆ Students will be able to analyse the content of

the newspapers

- ◆ Learners will be able to understand about the editorial ages of newspaper
- ◆ They will be able to differentiate between a news report and an editorial

Art Integration :

- ◆ Flow chart
- ◆ Case study
- ◆ Mind Map
- ◆ Experiential learning

Unit 4 : 19.05.2025 to 30.05.2025 (10)

Topics : Radio
Internet

Learning Outcomes :

- ◆ Students will be able to understand about the different types of radio programs
- ◆ Will be able to understand the need to classify the radio programs into several genres
- ◆ Will be able to demonstrate the usage of Internet and why it is important and learn about data transmission process
- ◆ Know how internet has changed the life over the years
- ◆ Practical file

Art Integration :

- ◆ Role play
- ◆ Flow chart
- ◆ Group discussion
- ◆ Article writing

Unit 5 : 23.06.2025 to 05.07.2025 (11)

Topics : Media Literacy
Analysis of Films

Learning Outcomes :

- ◆ Students will be able to know about the types of media
- ◆ Will be able to know the difference between the traditional and mass culture
- ◆ Will learn about the types of mass audience

such as groups crowds public etc. ◆ Will be able to demonstrate the areas associated with mass audience such as hypodermic theory and magic bullet theory ◆ Students will be able to develop broadly interdisciplinary approach to an understanding a film and it's role in society ◆ They may demonstrate the basic competence in some format associated with visual media like digital video photography animation ◆ Student will also be competent in employing theoretical and disciplinary tools in the analysis and assessment of film and film images ◆ Students will learn about the different types of shots such as visual shot, audio shot and editing Art Integration : ◆ Mind map ◆ Case study ◆ Flow chart Unit 6 07.07.2025 to 18.07.2025 (10) Topics : Analysis of TV programs Newspaper and periodicals Learning Outcomes : ◆ Analysis of TV programs ◆ Students will be able to differentiate between TV and cinema and brother sense ◆ Students will know about the various generic of TV programs / soap Opera like family drama, Romance, thrillers comma comedies ◆ Students will know the brought outlines of the history of TV ◆ Newspaper and periodicals ◆ student will develop understanding about news and analyze the content of the newspaper ◆ Will be able to differentiate between	periodicals magazines newspaper Art Integration : ◆ Flow chart ◆ Poster making Unit 7 21.07.2025 to 02.08.2025 (11) Topics : Radio Internet ◆ Students will be able to know the genres in radio program ◆ Will be able to demonstrate their knowledge about the live coverage of sports and other National or International events ◆ Will also be able to learn radio as a different kind of medium ◆ Students will be able to know about the origin of the internet ◆ They can demonstrate their knowledge about internet fundamental rings ◆ Develop a better understanding about websites and blogs etc Art Integration : ◆ Role play ◆ Group discussion Unit 8 04.08.2025 to 22.08.2025 (14) Topics : Employability skills Learning Outcomes : ◆ Students will learn how to communicate and business language. ◆ Learn the effective way of communication like how ethically one can converse ◆ Will learn about the importance of active listening at workplace. ◆ Will be able to demonstrate the basic official writing skills. ◆ Students will be able to describe the factors influencing self motivation ◆ Describe the basic Personality traits. ◆ Learn how personality influence others	Art Integration : ◆ Gameplay for active listening ◆ Email drafting ◆ Article on personal hygiene/self motivation Unit 9 & Rev. 25.08.2025 to 12.09.2025 (15) Topics : Practical Learning Outcomes : Portfolio making Unit 10 03.10.2025 to 17.10.2025 (11) Topics : Story as a self content world Story as a subjective experience Learning Outcomes : ◆ Students will be able to have a better understanding about the terms of a story such as a fiction fabrication falsehood and deception ◆ They can demonstrate they are better understanding about stories ◆ Here students will learn about the haiku which is a kind of story telling in Japanese culture ◆ Can demonstrate does knowledge about stories as a subjective manner Art Integration : Flow chart Unit 11 24.10.2025 to 07.11.2025 (11) Topics : Content of a Story Genres of Stories Learning Outcomes : ◆ Students will be able to demonstrate their strong knowledge about the various features comprises the content of the story like theme, time, space, plot and characters ◆ Students will learn about Myths and Legends here. ◆ Can demonstrate their deep knowledge about the content. Art Integration : Flow chart Unit 12 10.11.2025 to 21.11.2025 (11) Topics : Employability skills:
---	--	---

Learning Outcomes :

- ◆ Learn how to work in spreadsheets, how to create a new worksheet recessing fonts and styles copying and moving the cell data use of sorting and filter
- ◆ How to work on Power Point such as to make a PPT using ruler bar for making presentations.
- ◆ Understand the concept of green skills
- ◆ How important is green skills in different sectors
- ◆ Will learn about the role of green jobs in protecting ecosystem
- ◆ Understand about the entrepreneurship and the barriers to become an entrepreneur

Art Integration :

- ◆ PPT Making
- ◆ Flow chart

Unit 13 **24.11.2025 to 05.12.2025** **(11)**

Topics : Employability skills

Learning Outcomes :

- ◆ Learn how to work in spreadsheets, how to create a new worksheet recessing fonts and styles copying and moving the cell data use of sorting and filter
- ◆ How to work on Power Point such as to make a PPT using ruler bar for making presentations.
- ◆ Understand about the entrepreneurship and the barriers to become an entrepreneur
- ◆ Will be able to demonstrate the behavioural and entrepreneurial competencies
- ◆ Understand the concept of green skills
- ◆ How important is green skills in different sectors
- ◆ Will learn about the role of green jobs in protecting ecosystem

Art Integration :

- ◆ PPT making

◆ Flow chart

Unit 14 **08.12.2025 to 26.12.2025** **(14)**

Topic : Revision

Unit 15 & Rev. **05.01.2026 to 31.01.2026** **(20)**

Topic : Revision

FINE ARTS (PAINTING) 049
Prescribed Books :**General Objectives :**

- ❖ To help students to understand the arrangement of elements in a way that appeals to the senses.
- ❖ To develop the skills of art with the intention of stimulating thoughts and emotions.
- ❖ To develop the creativity and creative ability in students.
- ❖ To make children independent in creating their own style and skills.

Learning Outcomes :

Apply elements (line, shape, form, texture, color, value, and space) and principles (repetition, variety, rhythm, proportion, movement, balance, emphasis, and unity) in work that effectively communicates their ideas.

1. Identify and discriminate between types of shape (geometric and organic), colors (primary, secondary, complementary, intermediates, neutrals, tints, tones, shades, and values), lines (characteristics, quality), textures (tactile and visual), and space (background, middle ground, foreground, placement, perspective, overlap, negative, converging lines positive, size, color), balance (symmetrical, asymmetrical, radial) and the use of proportion, rhythm, variety, repetition, and movement in their work and the works of others.

2. Students develop and apply skills using a variety of two dimensional and three dimensional media, tools, and processes to create works that communicate personal meaning.

Unit 1 **07.04.2025 to 17.04.2025** **(08)**

Practical : Model with pencil drawing (two or three) object and Drapery

Theory : Art of Indus Valley (Harappan and Mohenjo-daro) (2500 B.C. to 1500 B.C.)

Unit 2 **21.04.2025 to 03.05.2025** **(11)**

Practical : Same model to be completed with water colour.

Theory : Study of Indus Valley Sculptures and Terracotta's

Unit 3 **05.05.2025 to 16.05.2025** **(09)**

Practical : Composition on any subject (Railway Station) Sketch with pencil draw more than three figures.

Theory : Study of following Decoration on earthen wares :
(i) Painted earthen-ware (Jar) (Mohenjo-daro)

Unit 4 **19.05.2025 to 30.05.2025** **(10)**

Practical : Same composition to be completed in water colour.

Theory : Buddhist, Jain and Hindu Art

Unit 5 **23.06.2025 to 05.07.2025** **(11)**

Practical : Start new model with Pencil Drawing.

Theory : Buddhist, Jain and Hindu Art

Unit 6 **07.07.2025 to 18.07.2025** **(10)**

Practical : Model with pencil drawing (two or three) object and Drapery

Theory : Study of Buddhist Sculptures

Unit 7 **21.07.2025 to 02.08.2025** **(11)**

Practical : Same model to be completed with

	water colour	
Theory	: Study of Buddhist Sculptures	
Unit 8	04.08.2025 to 22.08.2025	(14)
Practical	: Composition on any subject (Railway Station) Sketch with pencil draw more than three figures	
Theory	: Revision	
Unit 9 & Rev.	25.08.2025 to 12.09.2025	(15)
Practical	: Composition on any subjects (Railway Station) colour	
Theory	: Revision	
Unit 10	03.10.2025 to 17.10.2025	(11)
Practical	: Composition on any subject (Rainy day or flood) sketch with pencil draw more than three figures	
Theory	: Study of Ajanta Painting & Sculpture	
Unit 11	24.10.2025 to 07.11.2025	(11)
Practical	: Same composition scene to be completed in water colour	
Theory	: Temple Sculpture, Bronzes and Indo-Islamic Architecture	
Unit 12	10.11.2025 to 21.11.2025	(11)
Practical	: Model start with pencil (two or three object with Drapery)	
Theory	: Bronzes: (i) Introduction to Indian Bronzes (ii) Method of casting (solid and hollow)	
Unit 13	24.11.2025 to 05.12.2025	(11)
Practical	: Model finish with colour	
Theory	: Artistic Aspects of the Indo-Islamic Architecture (i) Introduction	
Unit 14	08.12.2025 to 26.12.2025	(14)
Practical	: New model start and completed in water colour	
Theory	: Revision	

Unit 15 & Rev.	05.01.2026 to 31.01.2026	(20)
Practical	: Submission	
Theory	: Revision	

HINDUSTANI MUSIC-VOCAL

Reference books :

1. Raga Parichya-Part 1		
Writer : Prof. Harishchander Srivastva,		
Pub : Sangeet Sadan Prakashan, Allahabad		
2. Madhur Swarlipi Sangraha-Part-1		
Editor : Prof. Harishchander Srivastva,		
Pub : Sangeet Sadan Prakashan, Allahabad		
3. Sangeet Visharad		
Unit 1	07.04.2025 to 17.04.2025	(08)
Topics	: Raga Bihag & Definitions-Nada, Shrut, Swar, Saptak	
Unit 2	21.04.2025 to 03.05.2025	(11)
Topics	: Raag Bihag-Chhota-Khyal & Tal-Teental & Ektal	
Unit 3	05.05.2025 to 16.05.2025	(09)
Topics	: Musician- Tansen & Pt. V.N. Bhatkhande	
Unit 4	19.05.2025 to 30.05.2025	(10)
Topics	: Raga Bihag-One Chhota or Drut Khyal with alap & tan	
Unit 5	23.06.2025 to 05.07.2025	(11)
Topics	: Brief history of Khayal, Dhrupad & Tarana	
Unit 6	07.07.2025 to 18.07.2025	(10)
Topics	: One Devotional song & Raga Bhairavi-Swarmalika	
Unit 7	21.07.2025 to 02.08.2025	(11)
Topics	: Definitions : Tha, Jati Raga, Laya, Tala	
Unit 8	04.08.2025 to 22.08.2025	(14)
Topics	: Raga Bhairavi-One Drut Khyal	

Unit 9 & Rev.	25.08.2025 to 12.09.2025	(15)
Topics	: Taal-Chautala & Brief study of Margi, Deshi	
Unit 10	03.10.2025 to 17.10.2025	(11)
Topics	: Short life sketch of Pt. Vishnu Digambar Paluskar	
Unit 11	24.10.2025 to 07.11.2025	(11)
Topics	: Definition of : Swarmalika, Tarana Nibaddha and Anibaddha gana	
Unit 12	10.11.2025 to 21.11.2025	(11)
Topics	: Natya Shastra & one Vilambit khyal	
Unit 13	24.11.2025 to 05.12.2025	(11)
Topics	: Raga Bhimpalasi-Discription, One Chhota or Drut khyal with alap & tan	
Topics	: Knowledge of the structure of Tanpura	
Unit 14	08.12.2025 to 26.12.2025	(14)
Topics	: Revision	
Unit 15 & Rev.	05.01.2026 to 31.01.2026	(20)
Topics	: Revision	

EXAMINATION SCHEDULE :

Periodic Asst.-1	05.07.2025 to 11.07.2025
Topics	: Units-1, 2, 3 and 4
Periodic Asst.-2	11.08.2025 to 19.08.2025
Topics	: Units-9, 10 and 11
Half Yearly Exams	15.09.2025 to 29.09.2025
Topics	: Units-1 to 8
Periodic Asst.-3	03.11.2025 to 11.11.2025
Topics	: Units-12, 13 and 14
Periodic Asst.-4	08.12.2025 to 15.12.2025
Topic	:
Annual Exams	02.02.2026 onwards (Tenta.)
Topics	:

PHYSICAL EDUCATION

Unit 1	07.04.2025 to 17.04.2025	(08)
Activity	: Changing trends and careers in	

	physical education	
Unit 2	21.04.2025 to 03.05.2025	(11)
Activity	: Olympic value education	
Unit 3	05.05.2025 to 16.05.2025	(09)
Activity	: Yoga and physical education and sports for CWSN (Children with special needs)	
Unit 4	19.05.2025 to 30.05.2025	(10)
Activity	: Physical fitness, Health and wellness	
Unit 5	23.06.2025 to 05.07.2025	(11)
Activity	: Test, measurement & evaluation	
Unit 6	07.07.2025 to 18.07.2025	(10)
Activity	: Revision	
Unit 7	21.07.2025 to 02.08.2025	(11)
Activity	: Fundamental of anatomy Physiology in sports	
Unit 8	04.08.2025 to 22.08.2025	(14)
Activity	: Revision	
Unit 9 & Rev.	25.08.2025 to 12.09.2025	(15)
Activity	: Knowledge of kinesiology and Biomechanics in sports	
Unit 10	03.10.2025 to 17.10.2025	(11)
Activity	: Psychology & Sports	
Unit 11	24.10.2025 to 07.11.2025	(11)
Activity	: Revision	
Unit 12	10.11.2025 to 21.11.2025	(11)
Activity	: Training and doping in sports	
Unit 13	24.11.2025 to 05.12.2025	(11)
Activity	: Revision	
Unit 14	08.12.2025 to 26.12.2025	(14)
Activity	: Revision	
Unit 15 & Rev.	05.01.2026 to 31.01.2026	(20)
Activity	: Revision	

FINANCIAL MARKETS MANAGEMENT

Prescribed Book :

Financial Markets Management

Teaching Objectives :

The main objectives of this syllabus are to :

1. To develop financial skills
2. To build foundation for money management and equity market
3. To develop basic understanding of mutual funds, capital and derivative market
4. To build speed and accuracy for financial market operations
5. To develop business acumen and entrepreneurial skills for financial markets
6. To gain knowledge of green skills for environment protection
7. To develop computer skills required for financial market.
8. To learn oral and written communication skills to deal with clients
9. To understand regulatory requirements while working in financial markets

Unit 1 **07.04.2025 to 17.04.2025** **(08)**

Topic : **Ch-1 : Markets and Financial Instruments**

Employability Skills : Ch-1 Communication Skills

Learning Outcomes :

- a. Causes of investment
- b. Tools of investment
- c. Define Stock Exchanges
- d. Find the depositories of the country
- e. Who can invest in securities market ?
(i) Need of regulators
(ii) Role of SEBI
- f. Participant Registration

Art Integration :

1. Project - Investment
2. NLT Software (Trading Skill Accelerator)

Unit 2 **21.04.2025 to 03.05.2025** **(11)**

Topic : **Ch-1 : Markets and Financial Instruments**

Employability Skills : Ch-1 Communication Skills

Learning Outcomes :

- a. Who can invest in securities market ?
- b. Need of regulators
- c. Role of SEBI
- d. Participant Registration

Art Integration :

1. Project - Investment
2. NLT Software (Trading Skill Accelerator)

Unit 3 **05.05.2025 to 16.05.2025** **(09)**

Topic : **Ch-2 : Primary and Secondary Market**

Employability Skills : Ch-2 Self-management Skills-I

Learning Outcomes :

- a. Difference between Primary Market and Secondary Market
- a. Identify Demutualise stock exchanges in India
- b. Role of the Primary Market
- c. Issue of Shares
- d. Meaning of Issue price, Initial Public Offer, Prospectus Listing of Securities
- e. Role of the Primary Market
- f. Issue of Shares
- g. Meaning of Issue price, Initial Public Offer, Prospectus Listing of Securities
- h. SEBI's Role in an Issue
- i. Stock Exchange
- j. Depository

Art Integration :

1. Project - Nifty 50
2. NLT Software (Trading Skill Accelerator)

Unit 4 19.05.2025 to 30.05.2025 (10) Topic : Ch-2 : Primary and Secondary Market Employability Skills : Ch-2 Self-management Skills-I Learning Outcomes : a. Process of SBTS b. Direct market access c. Precautions must one take before investing in the stock markets d. Products in the Secondary Market e. Arbitration f. an Investor Protection fund g. SEBI SCORES Art Integration : 1. Project –Nifty 50 2. NLT Software (Trading Skill Accelerator) Unit 5 23.06.2025 to 05.07.2025 (11) Topic : Ch-3 : Financial Statement Analysis Employability Skills : Ch-3 Information and Communication Technology Skills Learning Outcomes : a. Simple Interest b. Compound Interest c. Effective Annual Return d. Learning Accounting terms and technologies Art Integration : 1. Project –Nifty 50 2. NLT Software (Trading Skill Accelerator) Unit 6 07.07.2025 to 18.07.2025 (10) Topic : Ch-4 : Mutual Funds Products and Features Employability Skills : Ch-3 Information and Communication Technology Skills Learning Outcomes : a. Define MF b. Benefits of MF	a. How to calculate NAV b. Procedure of NFO Art Integration : 1. Project – Mutual funds 2. NLT Software (Trading Skill Accelerator) Unit 7 21.07.2025 to 02.08.2025 (11) Topic : Ch-4 : Mutual Funds Products and Features Employability Skills : Ch-4 Entrepreneurial Skills Learning Outcomes : a. Role of a registrar and transfer agents b. Category wise funds c. Other Equity Schemes Art Integration : 1. Project – Mutual funds 2. NLT Software (Trading Skill Accelerator) Unit 8 04.08.2025 to 22.08.2025 (14) Topic : Ch-4 : Mutual Funds Products and Features Employability Skills : Ch-4 Entrepreneurial Skills Learning Outcomes : a. Importance of basic offer documents (SID and SAI) analyse cash level in portfolios Art Integration : 1. Project – Mutual funds 2. NLT Software (Trading Skill Accelerator) Unit 9 & Rev 25.08.2025 to 12.09.2025 (15) Topic : Ch-5 : ETFs, Debt and Liquid Funds Employability Skills : Ch-5 Green Skills Learning Outcomes : a. Introduction to Exchange-Traded Funds b. Sovereign Gold Bonds c. Market Making by APS d. Creation units, Port Folio deposit and cash component	Art Integration : 1. Project –Debt Funds 2. NLT Software (Trading Skill Accelerator) Unit 10 03.10.2025 to 17.10.2025 (11) Topic : Ch-5 : ETFs, Debt and Liquid Funds Employability Skills : Ch-5 Green Skills Learning Outcomes : a. Interest Rate Risk b. Credit Risk c. Debt Instrument Price Art Integration : 1. Project –Debt Funds 2. NLT Software (Trading Skill Accelerator) Unit 11 24.10.2025 to 07.11.2025 (11) Topic : Ch-5 : ETFs, Debt and Liquid Funds Employability Skills : Ch-5 Green Skills Learning Outcomes : a. Valuation of securities b. Floating rate scheme c. Stress testing of assets Art Integration : 1. Project –Debt Funds 2. NLT Software (Trading Skill Accelerator) Unit 12 10.11.2025 to 21.11.2025 (11) Topic : Ch-6 : Taxation and Regulation Learning Outcomes : a. Capital gains taxation b. Indexation benefit c. Dividend distribution tax d. objectives of AMFI Art Integration : 1. Project – Derivatives 2. NLT Software (Trading Skill Accelerator) Unit 13 24.11.2025 to 05.12.2025 (11) Topic : Ch-6 : Taxation and Regulation Learning Outcomes : a. Capital gains taxation
---	---	--