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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, rowdyism 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 (2023-24)CLASS XI

Units	Dates		No. of Days
	From	To	
Unit 1	17.04.2023	21.04.2023	05
Unit 2	24.04.2023	06.05.2023	11
Unit 3	08.05.2023	19.05.2023	10
Unit 4	22.05.2023	31.05.2023	08 (Extra Classes)
Summer Vacation	01.06.2023	29.06.2023	
Unit 5	30.06.2023	15.07.2023	13
Unit 6	17.07.2023	28.07.2023	10
Unit 7	31.07.2023	11.08.2023	10
Unit 8	14.08.2023	26.08.2023	10
Unit 9 & Rev.	28.08.2023	16.09.2023	15
Half Yearly Exams	18.09.2023	30.09.2023	
Unit 10	03.10.2023	13.10.2023	09
Unit 11	16.10.2023	04.11.2023	14 (Including Autumn Break)
Autumn Break	21.10.2023	24.10.2023	
Unit 12	06.11.2023	24.11.2023	13 (Including Diwali Break)
Unit 13	28.11.2023	08.12.2023	10
Unit 14	11.12.2023	29.12.2023	14
Winter Break	30.12.2023	06.01.2024	
Unit 15 & Rev.	08.01.2024	31.01.2024	18
Annual Exams	01.02.2024 onwards (Tentative)		

ASSESSMENT SCHEDULE (Pen Paper) :

Assessments	Dates	
	From	To
Extra Classes	22.05.2023	31.05.2023
Periodic Assessment-1	15.07.2023	21.07.2023
Half Yearly Exam	18.09.2023	30.09.2023
Periodic Assessment-2	04.11.2023	10.11.2023
Periodic Assessment-3	21.12.2023	29.12.2023
Annual Exams	01.02.2024 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, encyclopedia, 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 17.04.2023 to 21.04.2023 (05)

Revision

Literature : The Portrait of a lady.

Writing Skills : Creative writings, Reading Comprehension

Art Integration : Creative writing

Unit 2 24.04.2023 to 06.05.2023 (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 08.05.2023 to 19.05.2023 (10)

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 22.05.2023 to 31.05.2023 (08)

Literature : Discovering Tut-The Saga Continues
The Laburnum Top

Grammar : Gap Filling: Tenses

Writing Skills : Poster making Advertisement

Unit 5 30.06.2023 to 15.07.2023 (13)

Literature : Mother's Day
Voice of rain

Writing Skills : Advertisement

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 17.07.2023 to 28.07.2023 (10)

Topic : Revision for Half Yearly & ALS

Unit 7 31.07.2023 to 11.08.2023 (10)

Literature : Childhood, Birth, Ailing, Planet
(Deleted Chapter 2022-23)

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.'

Unit 8 14.08.2023 to 26.08.2023 (10)

Literature : The Adventure
The Tale of Melon City

Writing Skills : Article writing

Art Integration : Research work on Laissez Faire & its significance.

Unit 9 & Rev. 28.08.2023 to 16.09.2023 (15)

Literature : father to Son, Silk Road,
Landscape of the soul (Deleted Chapter 22-23)

Writing Skills :

Art Integration : As a child write a diary entry expressing your confession of being responsible

of cold indifferences between you and your parents and finding solutions to the problems

Unit 10 03.10.2023 to 13.10.2023 (09)

Literature : Ranga's Marriage, Ghat of the only World. (Deleted in 2022-23)

Art Integration : Travelogue on Varanasi

Unit 11 16.10.2023 to 04.11.2023 (14)

Literature : Browning Versin Albert Einstein in school. (Deleted in 2022-23)

Unit 12 06.11.2023 to 24.11.2023 (13)

Topic : Revision & ALS

Unit 13 28.11.2023 to 08.12.2023 (10)

Literature :

Unit 14 11.12.2023 to 29.12.2023 (14)

Literature :

Unit 15 & Rev. 08.01.2024 to 31.01.2024 (18)

Literature :

ASSESSMENT SCHEDULE :

Extra Classes 22.05.2023 to 31.05.2023

Topics :

Periodic Asst-1 15.07.2023 to 21.07.2023

Reading : Unseen comprehensions

Writing skills : Poster Making, Speech Writing

Grammar : Jumbled Sentences, Fill ups

Literature : The Portrait of a lady
A Photograph

Half Yearly Exam 18.09.2023 to 30.09.2023

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,
The Address

Reading Comprehension, Note Making,

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

Grammar : Re-ordering of Sentences,
Gap Filling

Periodic Asst-2 04.11.2023 to 10.11.2023

Literature : Childhood, Birth, Adventure

Grammar : Re-ordering of Sentences,
Gap Filling, Transformation of
Sentences
Reading Comprehension

Writing Skills : Debate Writing

Periodic Asst-3 21.12.2023 to 29.12.2023

Reading : Unseen Comprehensions

Writing Skills : Formal Letters, Analytical
Paragraph

Grammar : Integrated Grammar, Jumbled
Sentences, Fill ups

Literature : Silk Road, The Tale of Melon City,
Father to Son

Annual Exams 01.02.2024 onwards (Tenta.)

MATHEMATICS (041)

Prescribed Books : NCERT Text Book

Reference book :

1. Exemplar Problems by NCERT

**Teaching objective of Senior Secondary Level
Mathematics** :

The main goal of mathematics education in schools is the mathematisation 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.

Unit 1 17.04.2023 to 21.04.2023 (05)

Topic : Ch-1 Sets

Art Integration/Lab Activity : Venn diagrams

Unit 2 24.04.2023 to 06.05.2023 (11)

Topic : Ch-1 Sets (Continue)

Ch-2 Relations & Functions

Art Integration/Lab Activity : Distinction

between Relations & Functions

Unit 3 08.05.2023 to 19.05.2023 (10)

Topic : Ch-4 PMI and Revision

Unit 4 22.05.2023 to 31.05.2023 (08)

Topic : Ch-12 3-D + Ch-15 Stats

Art Integration/Lab Activity : Coordinates of
Point

Unit 5 30.06.2023 to 15.07.2023 (13)

Topic : Recap for new admission +
Ch-6 Linear Inequalities

Art Integration/Lab Activity : Graphical Solution

Unit 6 17.07.2023 to 28.07.2023 (10)

Topic : Ch-3 Trigonometry

Unit 7 31.07.2023 to 11.08.2023 (10)

Topic : Ch-5 Complex Numbers and

Ch-7 P & C

Art Integration/Lab Activity : Drawing of
quadrilaterals from given points

Unit 8 14.08.2023 to 26.08.2023 (10)

Topic : Ch-16 Probability
Ch-8 Binomial Theorem +
Revision

Unit 9 & Rev. 28.08.2023 to 16.09.2023 (15)

Topic : Ch-9 Sequence and Series

Unit 10 03.10.2023 to 13.10.2023 (09)

Topic : Ch-9 Sequence and Series
(contd.)

Art Integration/Lab activity : To demonstrate
AM>GM

Unit 11 16.10.2023 to 04.11.2023 (14)

Topic : Ch-10 Straight Lines

Unit 12 06.11.2023 to 24.11.2023 (13)

Topic : Ch-11 Conic Sections +
Ch-14 Mathematical Reasoning

Unit 13 28.11.2023 to 08.12.2023 (10)

Topic : Ch-13 Limits and Derivatives

Unit 14 11.12.2023 to 29.12.2023 (14)

Topic : Revision

Unit 15 & Rev. 08.01.2024 to 31.01.2024 (18)

Topic : Revision

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 **17.04.2023 to 21.04.2023** **(05)**
Topic : Ch-1 Physical World (Introduction)
 Ch-2 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 **24.04.2023 to 06.05.2023** **(11)**
Topic : Ch-3 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 its mathematical calculus analysis.

Art Integration/Lab Activity :

- Presentation from the students
- Different Graphs

- Diagrams
- Question bank

Unit 3 **08.05.2023 to 19.05.2023** **(10)**
Topic : Ch-4 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 **22.05.2023 to 31.05.2023** **(08)**
Topic : Ch-5 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 **30.06.2023 to 15.07.2023** **(13)**
Topic : Ch-6 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 understand the Concept of mechanical energy, different forms energy and its conservation with necessary mathematical analysis. Learners will be able 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 17.07.2023 to 28.07.2023 (10)

Topic : Ch-7 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 31.07.2023 to 11.08.2023 (10)

Topic : Ch-8 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 14.08.2023 to 26.08.2023 (10)

Topic : Ch-9 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. 28.08.2023 to 16.09.2023 (15)

Topic : Ch-10 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 10 03.10.2023 to 13.10.2023 (09)

Topic : Ch-11 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 11 16.10.2023 to 04.11.2023 (14)

Topic : Ch-12 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 12 06.11.2023 to 24.11.2023 (13)

Topic : Ch-13 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 13 28.11.2023 to 08.12.2023 (10)

Topic : Ch-14 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 14 11.12.2023 to 29.12.2023 (14)

Topic : Ch-15 Wave

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

Unit 15 & Rev. 08.01.2024 to 31.01.2024 (18)

Topic : Ch-15 Wave and Revision

EXAMINATION SCHEDULE :

Periodic Asst-1 15.07.2023 to 21.07.2023

Topic : Ch-1, 2, 3

Half Yearly Exam 18.09.2023 to 30.09.2023

Topic : Ch-1, 2, 3, 4, 5, 6, 7, 8

Periodic Asst-2 04.11.2023 to 10.11.2023

Topic : Ch-9, 10

Periodic Asst-3 21.12.2023 to 29.12.2023

Topic : Ch-11, 12, 13

Annual Exams 01.02.2024 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 17.04.2023 to 21.04.2023 (05)
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.
- Molarity concept can be taught by practical.

Unit 2 24.04.2023 to 06.05.2023 (11)

Unit 3 08.05.2023 to 19.05.2023 (10)

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 22.05.2023 to 31.05.2023 (08)

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 30.06.2023 to 15.07.2023 (13)

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 17.07.2023 to 28.07.2023 (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 31.07.2023 to 11.08.2023 (10)

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, Gibbs'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 : Student 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 Surrounding can be explain by using live examples.
- Concept map be used to recall the different relationships between work done and state variables.
- Flow chart can prepared on the various thermodynamics laws and on their mathematical representation

Unit 8 14.08.2023 to 26.08.2023 (10)

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 Outcomes : To make them understand the equilibrium in chemical reactions. Difference between reversible reactions. Direction of reactions under equilibrium

Learning Outcomes : Student will understand about the reversible reaction. They will able to explain the what is Le Chatelier's Principle, 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. 28.08.2023 to 16.09.2023 (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 : Student 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 able 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 03.10.2023 to 13.10.2023 (09)

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 : Student 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 16.10.2023 to 04.11.2023 (14)

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 variation 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 characteristics features of the alkali metals, large scale preparation and properties of some industrially important compounds viz., cement, plaster of paris, sodium hydroxide, sodium carbonate 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 06.11.2023 to 24.11.2023 (13)

Topic : p-Block Elements

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 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 behaviour of first elements. Carbon-catenation, allotropic forms, physical and chemical properties.

Learning Objectives : This chapter explains 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 properties of Boron containing compounds. They will 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 B_2H_6 , $B(OH)_3$, and Silicon containing compounds.

Unit 13 28.11.2023 to 08.12.2023 (10)

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, electromeric 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 Outcomes : 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 11.12.2023 to 29.12.2023 (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 - 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 hydrocarbon and their type of bonding present in them.

They will also 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 chart 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. 08.01.2024 to 31.01.2024 (18)

Topic : Revision

BIOLOGY

Books Prescribed/Suggested

1. NCERT Biology for class 11
2. X-am Idea
3. Truemann to the point series
4. Champion Biology 11 By Dinesh Publications
5. Practical File : Biology Practical file of school
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 17.04.2023 to 21.04.2023 (05)

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

Art integration :

- Outline diagram of Five kingdom classification
- Diagram of different shapes of bacteria
- Diagram of slime moulds, diatoms, euglenoids and protozoans.

Unit 2 24.04.2023 to 06.05.2023 (11)

Topic : Ch-2 Biological classification
(contd.)
Ch-3 Plant Kingdom

Learning outcomes :

- 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.
- 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

Art integration :

- Table of classes of fungi with features and diagrams
- Outline diagrams of different kingdoms
- 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

Unit 3 08.05.2023 to 19.05.2023 (10)

Topic : Ch-4 Animal Kingdom
Ch-5 Morphology of flowering plants

Learning outcomes :

- Gain basic knowledge about Kingdom Animalia w.r.t. habitat, reproduction in various groups of animals. and can correlate their structures details with evolution.
- Able to understand different parts of plants Stem, root, leaves and their modifications & relate to their functions importance.
- Able to identify inflorescence types
- Able to understand different floral whorls, their importance and can use the information to write floral formula.

- Able to identify and classify the fruits into true, false and parthenocarpic fruits.

Art integration :

- Specimen preparation
- Word wall for terms used in classification with meaning
- Outline diagrams for classification of animal kingdom
- 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.

Unit 4 22.05.2023 to 31.05.2023 (08)**Topic** : 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 :

- 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.
- Diagrams depicting secondary growth process.

Unit 5 30.06.2023 to 15.07.2023 (13)**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
- Diagram of neuron
- Diagram of prokaryotic and eukaryotic cell
- Diagrams of cell organelles

Unit 6 17.07.2023 to 28.07.2023 (10)**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

Unit 7 31.07.2023 to 11.08.2023 (10)**Topic** : Ch-13 : Photosynthesis in higher plants
Ch-9 : Biomolecules**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
- 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 biomicromolecules
- 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

Art integration :

- Flow chart of C3 and C4 pathways

- DNA model preparation using different color beads
- Making 3 - D diagrams of different structures of proteins
- Enzyme activity graphs

Unit 8 14.08.2023 to 26.08.2023 (10)

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

Unit 9 & Rev. 28.08.2023 to 16.09.2023 (15)

Topic : Ch-17 Breathing and exchange of gases

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 10 03.10.2023 to 13.10.2023 (09)

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 11 16.10.2023 to 04.11.2023 (14)

Topic : Ch-18 : Body fluids and circulation

Learning outcomes :

- 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 to understand and explain the cardiac cycle and double circulation
- To use gained knowledge in practical aspects of life like reading ECG.

Art integration :

- 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 12 06.11.2023 to 24.11.2023 (13)

Topic : Ch-19 : Movement and locomotion

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 describe physiology of muscle contraction
- Will be able 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 strated 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 13 28.11.2023 to 08.12.2023 (10)

Topic : Ch-20 Excretory products and their elimination

Learning outcomes :

- To relate basic functioning of human body wrt 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

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

Unit 14 11.12.2023 to 29.12.2023 (14)

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
- 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

Art integration :

- Diagram of brain and neuron
- Table of types of neurons
- Diagram of chemical synapse
- Flow chart of conduction of nerve impulse

Unit 15 & Rev. 08.01.2024 to 31.01.2024 (18)

Topic : Ch-22 Chemical control and Integration

Learning outcomes :

- 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 endocrine system
- Diagram of mode of action of hormone
- Table of endocrine glands, their hormones, and their function

ASSESSMENT SCHEDULE :

Periodic Asst-1 15.07.2023 to 21.07.2023
Topic : Ch-2, 3 and Ch-5

Half Yearly Exam 18.09.2023 to 30.09.2023
Topic :

Periodic Asst-2 04.11.2023 to 10.11.2023
Topic : Ch-13, 14 and 18

Periodic Asst-3 21.12.2023 to 29.12.2023
Topic : Ch-19, 20 and 22

Annual Exams 01.02.2024 onwards (Tenta.)
Topic :

COMPUTER SCIENCE (083)

Prescribed Book : Computer Science by Preeti Arora (Sultan Chand)

Learning Outcomes :

Student should be able to :

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

Unit 1 17.04.2023 to 21.04.2023 (05)
Topic : Basic Computer Organisation
Activity : PPT on Computer Organisation

Unit 2 24.04.2023 to 06.05.2023 (11)
Topic : Types of Software Operating system
Activity : PPT on types of Software

Unit 3 08.05.2023 to 19.05.2023 (10)
Topic : Boolean logic Number system

Unit 4 22.05.2023 to 31.05.2023 (08)
Topic : Introduction to problem solving
Activity : Python basic commands

Unit 5 30.06.2023 to 15.07.2023 (13)
Topic : Python programming
Activity : Programs of arithmetical operators

Unit 6 17.07.2023 to 28.07.2023 (10)
Topic : Conditional Statements
Activity : Python programs of if elif

Unit 7 31.07.2023 to 11.08.2023 (10)
Topic : Strings
Activity : Programs of Strings

Unit 8 14.08.2023 to 26.08.2023 (10)
Topic : Lists
Activity : Programs of Lists

Unit 9 & Rev. 28.08.2023 to 16.09.2023 (15)
Topic : Lists
Activity : Programs of Lists

Unit 10 03.10.2023 to 13.10.2023 (09)
Topic : Tuples
Activity : Programs of Tuple

Unit 11 16.10.2023 to 04.11.2023 (14)
Topic : Dictionary
Activity : Progrms of Dictionary

Unit 12 06.11.2023 to 24.11.2023 (13)
Topic : Dictionary
Activity : Progrms of Dictionary

Unit 13	28.11.2023 to 08.12.2023	(10)
Topic	: Introduction to Python modules	
Activity	: Crating Python modules	
Unit 14	11.12.2023 to 29.12.2023	(14)
Topic	: Society, Law and Ethics	
Activity	: PPT on Society, Law and Ethics	
Unit 15 & Rev.	08.01.2024 to 31.01.2024	(18)
Topic	: Revision	

INFORMATICS PRACTICES

Prescribed Books :

1. Computer Science (NCERT)
2. Preeti Arora (Sultan Chand Pub.)

Unit 1	17.04.2023 to 21.04.2023	(05)
Topic	: Computer System	
Activity	: PPT on Computer System Organization	
Unit 2	24.04.2023 to 06.05.2023	(11)
Topic	: Getting Started with Python	
Activity	: Interacting with Python IDLE	
Unit 3	08.05.2023 to 19.05.2023	(10)
Topic	: Python Programming Fundamentals	
Activity	: Basic computational thinking. Learn how to reason with variables, state transitions, conditionals, and iteration	
Unit 4	22.05.2023 to 31.05.2023	(08)
Topic	: Python Programming Fundamentals	
Activity	: Chart on data types Integer, Float, Char Double	
Unit 5	30.06.2023 to 15.07.2023	(13)
Topic	: Conditional and Looping Statements	

Activity	: Flowcharts Decision making trees, If else statement	
Unit 6	17.07.2023 to 28.07.2023	(10)
Topic	: Conditional and Looping Statements	
Activity	: Flowcharts Decision making trees, If else statement	
Unit 7	31.07.2023 to 11.08.2023	(10)
Topic	: Conditional and Looping Statements	
Activity	: Flowcharts of control Algorithms Pseudo codes	
Unit 8	14.08.2023 to 26.08.2023	(10)
Topic	: Lists	
Activity	: Execution on platform	
Unit 9 & Rev.	28.08.2023 to 16.09.2023	(15)
Topic	: Lists	
Activity	: Execution on platform	
Unit 10	03.10.2023 to 13.10.2023	(09)
Topic	: Dictionary	
Activity	: Execution on platform	
Unit 11	16.10.2023 to 04.11.2023	(14)
Topic	: Dictionary	
Activity	: Execution on platform	
Unit 12	06.11.2023 to 24.11.2023	(13)
Topic	: Database Concepts & SQL	
Activity	: Power Point Presentation Execution on platform SQL	
Unit 13	28.11.2023 to 08.12.2023	(10)
Topic	: SQL	
Activity	: Execution on platform SQL	
Unit 14	11.12.2023 to 29.12.2023	(14)
Topic	: Emerging Trends	
Activity	: Poster on Cyber Security	
Unit 15 & Rev.	08.01.2024 to 31.01.2024	(18)
Topic	: Revision	
ASSESSMENT SCHEDULE (Pen Paper) :		
Extra Classes	22.05.2023 to 31.05.2023	

Periodic Asst-1	15.07.2023 to 21.07.2023
Topic	: Unit-1, 2, 3, 4
Half Yearly Exam	18.09.2023 to 30.09.2023
Topic	: Unit-1, 2, 3, 4, 5, 6
Periodic Asst-2	04.11.2023 to 10.11.2023
Topic	: Unit-7
Periodic Asst-3	21.12.2023 to 29.12.2023
Topic	: Unit-8
Annual Exams	01.02.2024 onwards (Tenta.)
Topic	: Entire Syllabus

BUSINESS STUDIES

Prescribed Book : NCERT Text Book

Reference Books :

1. G.S. Alag
2. Subhash Dey
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 systems 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 17.04.2023 to 21.04.2023 (05)

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 24.04.2023 to 06.05.2023 (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 08.05.2023 to 19.05.2023 (10)

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 22.05.2023 to 31.05.2023 (08)

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 30.06.2023 to 15.07.2023 (13)

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 17.07.2023 to 28.07.2023 (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 difference 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 31.07.2023 to 11.08.2023 (10)

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 14.08.2023 to 26.08.2023 (10)

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. 28.08.2023 to 16.09.2023 (15)

Topic : All chapters Revision

Unit 10 03.10.2023 to 13.10.2023 (09)

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.

Art Integration :

- Case studies
- Flow charts

Unit 11 16.10.2023 to 04.11.2023 (14)

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 and commercial banks, Trade credit and inter corporate deposits
- Distinguish between owners' funds and borrowed funds.

Unit 12 06.11.2023 to 24.11.2023 (13)

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 form development of small scale industries. NSIC and DIC with special reference

to rural, backward area.

Art Integration :

- Case studies
- Flow charts

Unit 13 28.11.2023 to 08.12.2023 (10)

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

Unit 14 11.12.2023 to 29.12.2023 (14)

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.

Art Integration :

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

Unit 15 & Rev. 08.01.2024 to 31.01.2024 (18)

Topic : • Project
• Revision and Practical (viva)

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

• **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 15.07.2023 to 21.07.2023

Topic : Evolution and fundamentals of Business

Half Yearly Exam 18.09.2023 to 30.09.2023

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-2 04.11.2023 to 10.11.2023

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

Periodic Asst-3 21.12.2023 to 29.12.2023

Topic : • Small Business
• Internal Trade

Annual Exams 01.02.2024 onwards (Tenta.)

Topic : Full Syllabus

ACCOUNTANCY

Prescribed Books :

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

Unit 1 17.04.2023 to 21.04.2023 (05)

Topic : Meaning and Objective of accounting,

Basic accounting terms

Unit 2 24.04.2023 to 06.05.2023 (11)

Topic : Accounting principles, process and basis of accounting, accounting standard, accounting equation

Unit 3 08.05.2023 to 19.05.2023 (10)

Topic : Double entry system, origin of transaction, journal, GST

Unit 4 22.05.2023 to 31.05.2023 (08)

Topic : Cash book, subsidiary books, ledger, trial balance

Unit 5 30.06.2023 to 15.07.2023 (13)

Topic : Bank reconciliation statement

Unit 6 17.07.2023 to 28.07.2023 (10)

Topic : Depreciation

Unit 7 31.07.2023 to 11.08.2023 (10)

Topic : Project and Revision

Unit 8 14.08.2023 to 26.08.2023 (10)

Topic : Provision and Reserve, Bill of Exchange

Unit 9 & Rev. 28.08.2023 to 16.09.2023 (15)

Topic : Rectification of errors

Unit 10	03.10.2023 to 13.10.2023	(09)
Topic	: Capital and Revenue, Financial Statement	
Unit 11	16.10.2023 to 04.11.2023	(14)
Topic	: Financial statement with adjustment	
Unit 12	06.11.2023 to 24.11.2023	(13)
Topic	:	
Unit 13	28.11.2023 to 08.12.2023	(10)
Topic	: Accounts of Incomplete Record Introduction to Computers	
Unit 14	11.12.2023 to 29.12.2023	(14)
Topic	: Project and Revision	
Unit 15 & Rev.	08.01.2024 to 31.01.2024	(18)
Topic	: Revision	
EXAMINATION SCHEDULE :		
Periodic Asst-1	15.07.2023 to 21.07.2023	
Topic	: Meaning and objective of accounting, Basic accounting terms, Accounting equation, Journal	
Half Yearly Exam	18.09.2023 to 30.09.2023	
Topic	: Ch-1 to 16	
Periodic Asst-2	04.11.2023 to 10.11.2023	
Topic	: Bill of Exchange Rectification of Error	
Periodic Asst-3	21.12.2023 to 29.12.2023	
Topic	: Financial statement with and without adjustments	
Annual Exams	01.02.2024 onwards (Tenta.)	
Topic	: Ch-1 to 26	

ECONOMICS

Prescribed Book : NCERT

Reference Books :

1. Sandeep Garg
2. T.R. Jain and V.K. Ohri

Rationale :

Economics is one of the social sciences, which has great influence on every human being. As economic life and the economy go through changes, the need to ground education in children's own experience becomes essential. While doing so, it is imperative to provide them opportunities to acquire analytical skills to observe and understand the economic realities.

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. It is at this stage, the learners are exposed to the rigour of the discipline of economics in a systematic way.

The economics courses are introduced in such a way that in the initial stage, the learners are introduced to the economic realities that the nation is facing today along with some basic statistical tools to understand these broader economic realities. In the later stage, the learners are introduced to economics as a theory of abstraction.

The economics courses also contain many projects and activities. These will provide opportunities for the learners to explore various economic issues both from their day-to-day life and also from issues, which are broader and invisible in nature. The academic skills that they learn in these courses would help to develop the projects and activities. The syllabus is also expected to provide opportunities to use information and communication technologies to facilitate their learning process.

Objectives:

- ◆ 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. This is pertinent for even those who may not pursue this course beyond senior secondary stage.
- ◆ 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 **17.04.2023 to 21.04.2023** **(05)**

Topics : Introduction of Micro Economics

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

- ◆ Meaning of microeconomics and macroeconomics; positive and normative economics
- ◆ What is an economy ?
- ◆ Central problems of an economy: what, how and for whom to produce;
- ◆ Concepts of production possibility frontier and opportunity cost.

Art Integration :

- ◆ Flow charts
- ◆ Quiz

Unit 2 **24.04.2023 to 06.05.2023** **(11)**

Topics : Introduction of Statistics

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

- ◆ What is Economics?
- ◆ Meaning,
- ◆ scope,
- ◆ functions and importance of statistics in Economics

Art Integration :

- ◆ Flow Charts

Unit 3 08.05.2023 to 19.05.2023 (10)**Topics** : Collection of data -**Learning Outcomes** : After going through this unit, the student would be able to :

- ◆ Students should be able to explain the concepts of sources of data - primary and secondary;
- ◆ How basic data is collected with concepts of Sampling;
- ◆ Methods of collecting data;
- ◆ Some important sources of secondary data:
- ◆ Census of India and National Sample Survey Organisation.

Art Integration :

- ◆ Flow charts
- ◆ Discussion about Topics

Unit 4 22.05.2023 to 31.05.2023 (08)

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

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

- ◆ Explain the meaning of utility, marginal utility,
- ◆ Concept of law of diminishing marginal utility,
- ◆ Conditions of consumer's equilibrium using marginal utility analysis.
- ◆ Indifference curve analysis of consumer's equilibrium-
- ◆ The consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map)
- ◆ And conditions of consumer's equilibrium.

Art Integration :

- ◆ Schedule and Diagram Practice

Unit 5 30.06.2023 to 15.07.2023 (13)

Topics : ◆ Theory of Demand
◆ Elasticity of Demand

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

- ◆ Understand the meaning of Demand, market demand.
- ◆ Determinants of demand
- ◆ Demand schedule, demand curve and its slope.
- ◆ movement along and shifts in the demand curve;
- ◆ price elasticity of demand - factors affecting price elasticity of demand;
- ◆ measurement of price elasticity of demand – percentage-change method and total expenditure method

Art Integration :

- Flow charts
- Numerical Practice
- Diagram Practice

Unit 6 17.07.2023 to 28.07.2023 (10)

Topics : ◆ Organisation of Data
◆ Presentation of Data:
◆ Revision

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

- ◆ Explain the Meaning and types of variables; Frequency Distribution.
- ◆ Tabular Presentation and Diagrammatic Presentation of Data:
- ◆ Geometric forms (bar diagrams and pie diagrams),
- ◆ Frequency diagrams (histogram, polygon and Ogive) and
- ◆ Arithmetic line graphs (time series graph)

Unit 7 31.07.2023 to 11.08.2023 (10)

Topics : Measures of Central Tendency-
Mean and Median

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

- ◆ Explain the meaning and importance of Mean and Median
- ◆ Solve Numerical of Mean and Median
- ◆ Direct methods, Short cut method and Step deviation method.

Unit 8 14.08.2023 to 26.08.2023 (10)

Topics : Measures of Central Tendency-
Mode

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

- ◆ Solve Numerical of Mean, Median and Mode
- ◆ Solve Mode by inspection method and grouping method.

Art Integration :

- ◆ Numerical Practice

Unit 9 & Rev. 28.08.2023 to 16.09.2023 (15)

Topics : ◆ Production Function
◆ Concepts of Cost

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

- ◆ Understand and explain the Meaning of Production Function-Short-Run and Long-Run
- ◆ Total Product, Average Product and Marginal Product.
- ◆ Returns to a Factor
- ◆ Cost: Short run costs - total cost, total fixed cost, total variable cost; Average cost; Average fixed cost, average variable cost and marginal cost-meaning and their relationships.

Art Integration :

- ◆ Diagram and Numerical Practice
- ◆ Case study based on Production function.

Unit 10 03.10.2023 to 13.10.2023 (09)

Topics : ◆ Concept of Revenue
◆ Producer's equilibrium

Learning Outcomes : After going through this

unit, the student would be able to :

- ◆ Understand the concept of- total, average and marginal revenue –
- ◆ Meaning and their relationship.
- ◆ Meaning and its conditions in terms of marginal revenue- marginal cost.

Art Integration :

- ◆ Case studies
- ◆ Flow charts

Unit 11 16.10.2023 to 04.11.2023 (14)

- Topics :** ◆ Theory of Supply
◆ Elasticity of Supply

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

- ◆ Explain the meaning of Supply
- ◆ Market supply
- ◆ Determinants of supply, supply schedule
- ◆ Supply curve and its slope
- ◆ Movements along and shifts in supply curve,
- ◆ Price elasticity of supply; measurement of price elasticity of supply - percentage-change method.

Art Integration :

- ◆ Quiz based on topic

Unit 12 06.11.2023 to 24.11.2023 (13)

- Topics :** ◆ Project
◆ Correlation

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

- ◆ Solve the numerical based on topics
- ◆ Explain the meaning and properties,
- ◆ Scatter diagram;
- ◆ Measures of correlation - Karl Pearson's method (two variables ungrouped data)
- ◆ Spearman's rank correlation.

Art Integration :

- ◆ Numerical Practice
- ◆ Project based on any current topic

Unit 13 28.11.2023 to 08.12.2023 (10)

- Topics :** Index Number

Learning Outcomes : After going through this

unit, the student would be able to :

- ◆ Meaning, types - wholesale price index,
- ◆ consumer price index and index of industrial production,
- ◆ uses of index numbers;
- ◆ Inflation and index numbers.

Unit 14 11.12.2023 to 29.12.2023 (14)

- Topics :** Forms of Market and Price

Learning Outcomes : After going through this

unit, the student would be able to :

- ◆ Understand the meaning of Perfect competition
- ◆ Features of Perfect competition

Art Integration : Project work from the chapter.

Unit 15 & Rev. 08.01.2024 to 31.01.2024 (18)

- Topics :** ◆ Determination under Perfect competition with simple applications
◆ Project
◆ Revision and Practical (viva)

Learning Outcomes : After going through this

unit, the student would be able to :

- ◆ Understand the meaning of Perfect competition
- ◆ Its Features; Determination of market equilibrium and effects of shifts in demand and supply.
- ◆ Simple Applications of Demand and Supply: Price ceiling, price floor.

Art Integration : Case study on current 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).

ASSESSMENT SCHEDULE :

Periodic Asst-1 15.07.2023 to 21.07.2023

- Topics :** Ch-1, 2 (Micro)
Ch-1 (Stats)

Half Yearly Exam 18.09.2023 to 30.09.2023

- Topics :** Ch-1, 2, 3, 4, 5 (Micro)
Ch-1, 2, 3, 4, 9 (Stats)

Periodic Asst-2 04.11.2023 to 10.11.2023

- Topics :** Ch-6 (Micro)
Ch-10 (Stats)

Periodic Asst-3 21.12.2023 to 29.12.2023

- Topics :** Ch-7, 8 (Micro)
Ch-11 (Stats)

Annual Exams 01.02.2024 onwards (Tenta.)

- Topic : Complete Syllabus**

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 17.04.2023 to 21.04.2023 (05)

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

Practical : Introduction to Maps

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 24.04.2023 to 06.05.2023 (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 08.05.2023 to 19.05.2023 (10)

Topic : Ch-5 Minerals and Rocks
Ch-6 Geomorphic Processes
Ch-7 Landforms and the Evolution

Learning Outcomes :

Ch-5 : (i) Students will learn about minerals and their physical characteristics.

(ii) They will can name some minerals that constitute our earth.

(iii) They will be able to differentiate various rocks with the help of 'Rock Cycle'.

Ch-6. (i) In this chapter, students will learn about the surface of the 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-7. In this chapter, students will learn about landforms and their evolution.

<p>(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.</p> <p>Art Integration/Activities : Students will be asked to collect different rock samples and try to recognize them from their physical characteristics and identify their family.</p> <p>Unit 4 22.05.2023 to 31.05.2023 (08)</p> <p>Topic : Ch-8 Composition and structure of Atmosphere Ch-9 Solar Radiation and Temperature</p> <p>Practical : Latitude, Longitude and Time</p> <p>Learning Outcomes :</p> <p>Ch-8. Students will learn about composition and structure of atmosphere and its significance.</p> <p>Ch-9. 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.</p> <p>Art Integration/Activities : Class Discussion on 'Role of Citizens in making earth a better place to live on.'</p> <p>Practical class on Latitude, and Longitude and calculation of time difference of major cities with the help of latitude and longitude</p> <p>Unit 5 30.06.2023 to 15.07.2023 (13)</p> <p>Topic : Ch-10 Atmospheric Circulation and Weather Ch-11 Water in the Atmosphere</p> <p>Learning Outcomes :</p> <p>Ch-10. 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</p>	<p>masses interact with each other and the phenomenon of violent tropical storms.</p> <p>Ch-11. In this chapter, students will learn about presence of water in the atmosphere in three forms-gaseous, liquid and solid.</p> <p>(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.</p> <p>Unit 6 17.07.2023 to 28.07.2023 (10)</p> <p>Topic : Ch-12 World Climate and Climate Change Ch-13 Water (Oceans) Ch-14 Movements of Ocean Water</p> <p>Learning Outcomes :</p> <p>Ch-12. (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.</p> <p>(ii) They will become familiar with Koeppen's Scheme of classification of climate.</p> <p>Ch-13. Students will learn about water and its significance for the creatures on the earth.</p> <p>Ch-14. (i) Students will get to know how external forces like sun, moon, and the winds influence the movement of ocean water.</p> <p>(ii) They will be able to explain the characteristics of waves</p> <p>Art Integration/Activities :</p> <ul style="list-style-type: none"> • 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 	<p>these currents on the world map.</p> <p>Unit 7 31.07.2023 to 11.08.2023 (10)</p> <p>Topic : Ch-15 Life on the Earth Ch-16 Biodiversity and Conservation</p> <p>Learning Outcomes :</p> <p>Ch-15 : In this chapter, students will learn about biosphere and its components and how these components are very significant elements of the environment.</p> <p>Ch-16. In this chapter, students will learn about biodiversity, its importance, causes of loss of biodiversity & its conservation</p> <p>Art Integration/Activities : Map Activity : Students will be asked to locate and label the mega diversity Centres and ecological hotspots on the world map.</p> <p>BOOK-2</p> <p>Unit 8 14.08.2023 to 26.08.2023 (10)</p> <p>Topic : Ch-1 India-Location</p> <p>Practical : Map Projection</p> <p>Learning Outcomes :</p> <p>Ch-1. Students will learn various facts that explain India's location and size in the world.</p> <p>Art Integration/Activities : Map Based Activity Practical class on map projections</p> <p>Unit 9 & Rev. 28.08.2023 to 16.09.2023 (15)</p> <p>Topic : Ch-2 Structure and Physiography Ch-3 Drainage</p> <p>Learning Outcomes :</p> <p>Ch-2. (i) Students will become familiar with geological divisions of India and their main features.</p> <p>(ii) They will be able to locate them on the map of India.</p> <p>Ch-3. Students will learn about drainage systems of India and will be able to compare or differentiate them</p> <p>Art Integration/Activities : Map Based Activity</p>
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POLITICAL SCIENCE

Unit 10 **03.10.2023 to 13.10.2023** **(09)**

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 **16.10.2023 to 04.11.2023** **(14)**

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.

(iii) Students will be able to suggest some measures to conserve and protect flora and fauna in our country.

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 **06.11.2023 to 24.11.2023** **(13)**

Topic : Ch-6 Soils

Practical : Weather Instruments, Maps & Charts

Learning Outcomes :

Ch-6. (i) Students will learn about soil; its types and factors leading to soil erosion.

(ii) They will realize how it is a valuable resource and will be able to suggest some measure to conserve it.

Art Integration/Activities :

- Map based activity
- Practical class on weather maps

Unit 13 **28.11.2023 to 08.12.2023** **(10)**

Topic : Ch-7 Natural Hazards and Disasters

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 :

- Map Based Activity
- Students will be asked to divide India into natural disaster vulnerability zones based on droughts and suggest some mitigation measures.

Unit 14 **11.12.2023 to 29.12.2023** **(14)**

Topic : Ch-7 Natural Hazards and Disasters

Unit 15 & Rev. **08.01.2024 to 31.01.2024** **(18)**

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 **15.07.2023 to 21.07.2023**

Topic : **Book-1** : Ch-1, 2, 3, 4

Half Yearly Exam **18.09.2023 to 30.09.2023**

Topic : Unit-1 to 7

Periodic Asst-2 **04.11.2023 to 10.11.2023**

Topic : **Book-2** : Ch-1, and 2

Periodic Asst-3 **21.12.2023 to 29.12.2023**

Topic : **Book-2** : Ch-4 and 5

Annual Exams **01.02.2024 onwards (Tenta.)**

Topic : All units (Book 1 and 2)

Prescribed Book :

Book-1 : Indian Constitution at Work : NCERT

Book-2 : Political Theory : NCERT

Rationale :

At the senior secondary level students who opt for Political Science are given an opportunity to get exposed to the diverse concepts of the discipline helping them to be a global citizen and develop skills to understand, apply and evaluate. At this level, there is a need to enable students to have the skills to engage with political processes that surround them and provide them with an understanding of the historical context that has shaped the present. The different courses expose the students to various streams of the discipline of Political Science. Political Theory, Indian Politics and International Politics. Concerns of the other two streams-Comparative Politics and Public Administration- are accommodated at different places in these courses. In introducing these streams, special care has been taken not to burden the students with the current jargon of the discipline. The basic idea here is to lay the foundations for a serious engagement with the discipline and develop and competencies related to Political Science to prepare them for higher education, learning and knowledge.

Objectives :

The course in Political Science will help learner :

- ❖ Understand the historical processes and the circumstances in which the Constitution was drafted.
- ❖ Be familiar with the diverse perspectives that guided the makers of the Indian Constitution.
- ❖ Identify key features of the Constitution and

<p>compare these to other constitutions in the world.</p> <ul style="list-style-type: none"> ❖ Analyze the working of the Constitution in real life. Compare conditions and connections in one place to another. ❖ Understand the contemporary world. ❖ Understand the key political events and processes in the post-cold war era. ❖ Analyze various global institutions, processes and events shaping their lives. ❖ Develop their capacity to link political policies and processes with contemporary realities. <p>Book-1 :</p> <p>Unit 1 17.04.2023 to 21.04.2023 (05) Topic : Ch-1 Constitution & Rights in Indian Constitution</p> <p>Learning Outcomes : Ch-1 : Students will come to know about constitution: The Philosophy and making of the Constitution, Fundamental Rights and State Policy, Constitutional Amendments.</p> <p>Art Integration/Activities : Collect information about Philosophy of constitution</p> <p>Unit 2 24.04.2023 to 06.05.2023 (11) Topic : Ch-2 Election and Representation Ch-3 Executive</p> <p>Learning Outcomes : Ch-2 : (i) In this chapter, students will learn about election system prevails in India. (ii) They will know how Election Commission works in India.</p> <p>Ch-3 : In this chapter, students will learn about distribution of powers. Different types of Executive. Parliamentary Executive in India, Prime Minister and Council of Ministers. Permanent Executive: Bureaucracy.</p> <p>Art Integration/Activities :</p> <ul style="list-style-type: none"> • Students will prepare a PPT on Election 	<p>system in India.</p> <ul style="list-style-type: none"> • Prepare a report on the powers of President. <p>Unit 3 08.05.2023 to 19.05.2023 (10) Topic : Ch-4 Legislature</p> <p>Learning Outcomes : Students will come to know about Why do we need a Parliament ? Unicameral/Bicameral Legislature. Functions and Power of the Parliament, Parliamentary committees. Parliamentary Officials: Speaker, Deputy Speaker, Parliamentary Secretary</p> <p>Unit 4 22.05.2023 to 31.05.2023 (08) Topic : Ch-5 Judiciary</p> <p>Learning Outcomes : Ch-8 : Students will learn about Why do we need an Independent Judiciary ? Structure of the judiciary, Judicial review, Judicial activism, Judicial over-reach.</p> <p>Art Integration/Activities : Class discussion on 'Role of High court and Supreme court'</p> <p>Unit 5 30.06.2023 to 15.07.2023 (13) Topic : Ch-6 Federalism Ch-7 Local Governments</p> <p>Learning Outcomes : Ch-6 : In this chapter, students will learn about What is Federalism ? Evolution & growth of Indian Federalism: Quasi Federalism, Cooperative Federalism & Competitive Federalism.</p> <p>Ch-7 : In this chapter, Students will learn about need Local Governments. Growth of Local Governments in India, 73rd and 74th Amendments, Working and Challenges of Local Governments</p> <p>Art Integration/Activities : Debate on 'Federalism and Unitary Government'</p> <p>Unit 6 17.07.2023 to 28.07.2023 (10) Topic : Book-2</p>	<p>Ch-8 Political Theory: An Introduction Ch-9 Liberty</p> <p>Learning Outcomes : Ch-8 : Students will learn What is politics ? Politics v/s Political Theory, Importance of Political Theory. Ch-9 : Students will learn about Liberty v/s Freedom, Negative and Positive Liberty.</p> <p>Art Integration/Activities : Students will be asked to make a Power Point presentation or short movie to be shown to all the students about the condition of dalits before implementation of constitution.</p> <p>Unit 7 31.07.2023 to 11.08.2023 (10) Topic : Ch-10 Equality</p> <p>Learning Outcomes : Ch-16 : In this chapter, students will learn about What is Equality ? Significance of Equality. Various dimensions of Equality. How can we promote Equality ?</p> <p>Art Integration/Activities : Source based questions</p> <p>Unit 8 14.08.2023 to 26.08.2023 (10) Topic : Ch-11 : Justice</p> <p>Learning Outcomes : Ch-11 : Students will learn various facts about social justice. What is justice ? Different dimensions of justice, distributive justice.</p> <p>Unit 9 & Rev. 28.08.2023 to 16.09.2023 (15) Topic : Ch-12 Rights</p> <p>Learning Outcomes : Ch-12 : Students will become familiar with--- What are Rights ? Where do Rights come from ? Legal Rights and the State. Kinds of Rights. Human Rights</p> <p>Art Integration/Activities : Role play</p> <p>Unit 10 03.10.2023 to 13.10.2023 (09) Topic : Ch-13 Citizenship</p>
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Learning Outcomes :

Ch-13 : Students will learn about What is citizenship ? Citizen and Citizenship, Citizen and Nation, Global Citizenship.

Art Integration/Activities : Prepare a case study on citizenship or global citizenship.

Unit 11 16.10.2023 to 04.11.2023 (14)

Topic : Ch-14 : Nationalism

Learning Outcomes :

Ch-14 : Students will learn about Nations and Nationalism, Variants of Nationalism, Nationalism, Pluralism and Multiculturalism.

Unit 12 06.11.2023 to 24.11.2023 (13)

Topic : Ch-15 Secularism

Learning Outcomes :

Ch-15 : Students will be able to know about What is Secularism ? What is Secular State ? The Western and the Indian perspective to Secularism. Salient features of Indian secularism.

Art Integration/Activities : Group discussion on secularism.

Unit 13 28.11.2023 to 08.12.2023 (10)

Topic : Ch-16 Peace

Learning Outcomes :

Ch-16 : Students will be able to know about What Peace ? Can violence ever promote peace ? Peace and the State. Different approaches to the pursuit of peace. Contemporary challenges to peace.

Art Integration/Activities : Prepare a PPT on UNO

Unit 14 11.12.2023 to 29.12.2023 (14)

Topic : Ch-17 Development

Learning Outcomes :

Ch-17 : Students will be able to know about What is development ? Dominant, development Model and alternative conceptions of development.

Art Integration/Activities : Report writing on steps of a child's development.

Unit 15 & Rev. 08.01.2024 to 31.01.2024 (18)

Topic : Revision and Project work

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.

Art Integration/Activities : Class test

ASSESSMENT SCHEDULE (Pen Paper) :

Extra Classes 22.05.2023 to 31.05.2023

Periodic Asst-1 15.07.2023 to 21.07.2023

Topic : Book-1 : Ch-1, 2

Half Yearly Exam 18.09.2023 to 30.09.2023

Topic : Unit-1 to 6

Periodic Asst-2 04.11.2023 to 10.11.2023

Topic : Book-1 : Ch-5, 6

Periodic Asst-3 21.12.2023 to 29.12.2023

Topic : Book-2 : Ch-10, 11

Annual Exams 01.02.2024 onwards (Tenta.)

Topic : All units (Book-1 and Book-2)

PSYCHOLOGY

Books Recommended :**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 17.04.2023 to 21.04.2023 (05)

Theory : What is Psychology ?

(Introduction to Psychology till Branches of Psychology)

Unit 2 24.04.2023 to 06.05.2023 (11)

Theory : Themes & Inter-disciplinary nature of the discipline

Unit 3 08.05.2023 to 19.05.2023 (10)

Practical : Survey Study

Theory : Methods of Research in Psychology (till Case study)

Unit 4 22.05.2023 to 31.05.2023 (08)

Theory : Analysis of Data and Limitations of Psychological Research

Unit 5 30.06.2023 to 15.07.2023 (13)

Practical : Experiment-1

Topic : Human Development (Childhood Adolescence and Adulthood)

Unit 6 17.07.2023 to 28.07.2023 (10)

Theory : Sensory, Attentional processes and Revision

Unit 7 31.07.2023 to 11.08.2023 (10)

Theory : Perceptual Processes

Unit 8 14.08.2023 to 26.08.2023 (10)

Theory : Learning (till Observation Learning)

Unit 9 & Rev. 28.08.2023 to 16.09.2023 (15)

Theory : Learning (till Observation Learning) (contd.)

Unit 10 03.10.2023 to 13.10.2023 (09)

Practical : Experiment-2 (Memory)

Theory : Memory: Nature of memory, Types of Long Term memory

Unit 11 16.10.2023 to 04.11.2023 (14)

Theory : Thinking: Nature, processes

Unit 12	06.11.2023 to 24.11.2023	(13)
Theory	: Motivation and Emotion	
Unit 13	28.11.2023 to 08.12.2023	(10)
Theory	: Revision	
Unit 14	11.12.2023 to 29.12.2023	(14)
Theory	: Revision	
Unit 15 & Rev.	08.01.2024 to 31.01.2024	(18)
Theory	: Revision	
EXAMINATION SCHEDULE :		
Periodic Asst-1	15.07.2023 to 21.07.2023	
Topic	: Introduction to Psychology	
Half Yearly Exam	18.09.2023 to 30.09.2023	
Topic	: Ch-1 to 4	
Periodic Asst-2	04.11.2023 to 10.11.2023	
Topic	: Learning	
Periodic Asst-3	21.12.2023 to 29.12.2023	
Topic	: Learning & Memory	
Annual Exams	01.02.2024 onwards (Tenta.)	
Unit	: Ch-1 to 5 40% and Ch-5 to 9 60%	

MASS MEDIA STUDIES

Prescribed Book : CBSE Resource Material		
Unit 1	17.04.2023 to 21.04.2023	(05)
Topics	: Introduction to media Aspects of Mass 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		

Art Integration :		
◆ Group Discussion		
◆ Case study		
Unit 2	24.04.2023 to 06.05.2023	(11)
Topics	: Barriers of communication Evolution of cinema	
Learning Outcomes :		
◆ Student will learn about the various barriers which comes in communication		
◆ Students can develop a deep sense enable to overcome such barriers		
◆ 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 theater and cinema		
Art Integration :		
◆ Flow chart		
◆ Case study		
◆ Portfolio making activity		
Unit 3	08.05.2023 to 19.05.2023	(10)
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 :		
◆ Case study		
◆ Mind Map		
◆ Experiential learning		
◆ Flow chart		
Unit 4	22.05.2023 to 31.05.2023	(08)
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 30.06.2023 to 15.07.2023 (13)**
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 17.07.2023 to 28.07.2023 (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 31.07.2023 to 11.08.2023 (10)**
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 14.08.2023 to 26.08.2023 (10)**
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. 28.08.2023 to 16.09.2023 (15)**
Topics : Practical

Learning Outcomes : Portfolio making

- Unit 10 03.10.2023 to 13.10.2023 (09)**
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 16.10.2023 to 04.11.2023 (14)**
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 06.11.2023 to 24.11.2023 (13)

Topics : Employability skills

Learning Outcomes :

- ◆ Learn how to work in spreadsheets, how to create a new worksheet recising 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 13 28.11.2023 to 08.12.2023 (10)

Topics : Employability skills

Learning Outcomes :

- ◆ Learn how to work in spreadsheets, how to create a new worksheet recising 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 : Flow chart

Unit 14 11.12.2023 to 29.12.2023 (14)

Topic : Revision

Unit 15 & Rev. 08.01.2024 to 31.01.2024 (18)

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.

Unit 1 17.04.2023 to 21.04.2023 (05)

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 24.04.2023 to 06.05.2023 (11)

Practical : Same model to be completed with water colour.

Theory : Study of Indus Valley Sculptures and Terracotta's

Unit 3 08.05.2023 to 19.05.2023 (10)

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 22.05.2023 to 31.05.2023 (08)

Practical : Same composition to be completed in water colour.

Theory : Buddhist, Jain and Hindu Art

Unit 5 30.06.2023 to 15.07.2023 (13)

Practical : Start new model with Pencil Drawing.

Theory : Buddhist, Jain and Hindu Art

Unit 6 17.07.2023 to 28.07.2023 (10)

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

Theory : Study of Buddhist Sculptures

Unit 7 31.07.2023 to 11.08.2023 (10)

Practical : Same model to be completed with water colour

Theory : Study of Buddhist Sculptures

Unit 8 14.08.2023 to 26.08.2023 (10)

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

Theory : Revision

Unit 9 & Rev. 28.08.2023 to 16.09.2023 (15)

Practical : Same composition to be completed in water colour.

Theory : Revision

Unit 10 03.10.2023 to 13.10.2023 (09)

Practical : Start new model with pencil drawing

Theory	: Introduction TO Ajanta
Unit 11	16.10.2023 to 04.11.2023 (14)
Practical	: Composition on any subject (Rainy day or flood) sketch with pencil draw more than three figures
Theory	: Study of Ajanta Painting & Sculpture
Unit 12	06.11.2023 to 24.11.2023 (13)
Practical	: Same composition to be completed in water colour
Theory	: Temple Sculpture, Bronzes and Indo-Islamic Architecture
Unit 13	28.11.2023 to 08.12.2023 (10)
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 14	11.12.2023 to 29.12.2023 (14)
Practical	: Model finish with colour
Theory	: Artistic Aspects of the Indo-Islamic Architecture (i) Introduction
Unit 15 & Rev.	08.01.2024 to 31.01.2024 (18)
Practical	: New model start and completed in water colour
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	17.04.2023 to 21.04.2023 (05)
Topics	: Raga Bihag & Definitions-Nada, Shruti, Swar, Saptak
Unit 2	24.04.2023 to 06.05.2023 (11)
Topics	: Raag Bihag-Chhota Khyal & Tal-Teentala & Ektala
Unit 3	08.05.2023 to 19.05.2023 (10)
Topics	: Musician- Tansen & Pt. V.N. Bhatkhande
Unit 4	22.05.2023 to 31.05.2023 (08)
Topics	: Raga Bihag-One Chhota or Drut Khyal with alap & tan
Unit 5	30.06.2023 to 15.07.2023 (13)
Topics	: Brief history of Khayal, Dhrupad & Tarana
Unit 6	17.07.2023 to 28.07.2023 (10)
Topics	: One Devotional song & Raga Bhairavi-Swarmalika
Unit 7	31.07.2023 to 11.08.2023 (10)
Topics	: Definitions : That, Jati Raga, Laya, Tala
Unit 8	14.08.2023 to 26.08.2023 (10)
Topics	: Raga Bhairavi-One Drut Khyal
Unit 9 & Rev.	28.08.2023 to 16.09.2023 (15)
Topics	: Taal-Chautala & Brief study of Margi, Deshi
Unit 10	03.10.2023 to 13.10.2023 (09)
Topics	: Short life sketch of Pt. Vishnu Digambar Paluskar
Unit 11	16.10.2023 to 04.11.2023 (14)
Topics	: Definition of : Swarmalika, Tarana Nibaddha and Anibaddha gana
Unit 12	06.11.2023 to 24.11.2023 (13)
Topics	: Natya Shastra & one Vilambit khyal
Unit 13	28.11.2023 to 08.12.2023 (10)
Topics	: Raga Bhimpalasi-Discription
Unit 14	11.12.2023 to 29.12.2023 (14)
Topics	: Raga Bhimpalasi-One Chhota or

	Drut khyal with alap & tan
Unit 15 & Rev.	08.01.2024 to 31.01.2024 (18)
Topics	: Knowledge of the structure of Tanpura
EXAMINATION SCHEDULE :	
Periodic Asst-1	15.07.2023 to 21.07.2023
Topics	: Units-1, 2, 3 and 4
Half Yearly Exam	18.09.2023 to 30.09.2023
Topics	: Units-1 to 8
Periodic Asst-2	04.11.2023 to 10.11.2023
Topics	: Units-9, 10 and 11
Periodic Asst-3	21.12.2023 to 29.12.2023
Topics	: Units-12, 13 and 14
Annual Exams	01.02.2024 onwards (Tenta.)
Topics	:

PHYSICAL EDUCATION

Precribed Books :

Unit 1	17.04.2023 to 21.04.2023 (05)
Activity	: Changing trends and careers in physical education
Unit 2	24.04.2023 to 06.05.2023 (11)
Activity	: Olympism
Unit 3	08.05.2023 to 19.05.2023 (10)
Activity	: Yoga and physical education sports for CWSN (Children with special needs)
Unit 4	22.05.2023 to 31.05.2023 (08)
Activity	: Physical fitness and health and wellness
Unit 5	30.06.2023 to 15.07.2023 (13)
Activity	: Test, measurement & evaluation
Unit 6	17.07.2023 to 28.07.2023 (10)
Activity	: Fundamental of anatomy physiology in sports
Unit 7	31.07.2023 to 11.08.2023 (10)
Activity	: Fundamental of kinsology and bio mechanic in sports

Unit 8	14.08.2023 to 26.08.2023	(10)
Activity	: Psychology and sports	
Unit 9 & Rev.	28.08.2023 to 16.09.2023	(15)
Activity	: Revision	
Unit 10	03.10.2023 to 13.10.2023	(09)
Activity	: Training and doping in sports	
Unit 11	16.10.2023 to 04.11.2023	(14)
Activity	: Revision	
Unit 12	06.11.2023 to 24.11.2023	(13)
Activity	: Revision for Annual Exams	
Unit 13	28.11.2023 to 08.12.2023	(10)
Activity	:	
Unit 14	11.12.2023 to 29.12.2023	(14)
Activity	:	
Unit 15 & Rev.	08.01.2024 to 31.01.2024	(18)
Activity	:	

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 **17.04.2023 to 21.04.2023** **(05)**

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 **24.04.2023 to 06.05.2023** **(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 **08.05.2023 to 19.05.2023** **(10)**

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 **22.05.2023 to 31.05.2023** **(08)**

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

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

Learning Ourcomes :

- 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 **30.06.2023 to 15.07.2023** **(13)**

Topic : **Ch-3 : Financial Statement Analysis**

Employability Skills : Ch-3 Information and Communication Technology Skills

Learning Ourcomes :

- Simple Interest
- Compound Interest
- Effective Annual Return
- Learning Accounting terms and technologies

Art Integration :

- Project –Nifty 50
 - NLT Software (Trading Skill Accelerator)
- Unit 6 17.07.2023 to 28.07.2023 (10)**

Topic : Ch-4 : Mutual Funds Products and Features

Employability Skills : Ch-3 Information and Communication Technology Skills

Learning Ourcomes :

- Define MF
- Benefits of MF
- How to calculate NAV
- Procedure of NFO

Art Integration :

- Project – Mutual funds
 - NLT Software (Trading Skill Accelerator)
- Unit 7 31.07.2023 to 11.08.2023 (10)**

Topic : Ch-4 : Mutual Funds Products and Features

Employability Skills : Ch-4 Entrepreneurial Skills

Learning Ourcomes :

- Role of a registrar and transfer agents
- Category wise funds
- Other Equity Schemes

Art Integration :

- Project – Mutual funds
 - NLT Software (Trading Skill Accelerator)
- Unit 8 14.08.2023 to 26.08.2023 (10)**

Topic : Ch-4 : Mutual Funds Products and Features

Employability Skills : Ch-4 Entrepreneurial Skills

Learning Ourcomes :

- importance of basic offer documents (SID and SAI) analyse cash level in portfolios

Art Integration :

- Project – Mutual funds
 - NLT Software (Trading Skill Accelerator)
- Unit 9 & Rev. 28.08.2023 to 16.09.2023 (15)**

Topic : Ch-5 : ETFs, Debt and Liquid Funds

Employability Skills : Ch-5 Green Skills

Learning Ourcomes :

- Introduction to Exchange Traded Funds
- Sovereign Gold Bonds
- Market Making by APS
- Creation units, Port Folio deposit and cash component

Art Integration :

- Project –Debt Funds
 - NLT Software (Trading Skill Accelerator)
- Unit 10 03.10.2023 to 13.10.2023 (09)**

Topic : Ch-5 : ETFs, Debt and Liquid Funds

Employability Skills : Ch-5 Green Skills

Learning Ourcomes :

- Interest Rate Risk
- Credit Risk
- Debt Instrument Price

Art Integration :

- Project –Debt Funds
 - NLT Software (Trading Skill Accelerator)
- Unit 11 16.10.2023 to 04.11.2023 (14)**

Topic : Ch-5 : ETFs, Debt and Liquid Funds

Employability Skills : Ch-5 Green Skills

Learning Ourcomes :

- Valuation of securities
- Floating rate scheme
- Stress testing of assets

Art Integration :

- Project –Debt Funds
 - NLT Software (Trading Skill Accelerator)
- Unit 12 06.11.2023 to 24.11.2023 (13)**

Topic : Ch-6 : Taxation and Regulation

Learning Ourcomes :

- Capital gains taxation
- Indexation benefit
- Dividend distribution tax
- objectives of AMFI

Art Integration :

- Project – Derivatives
 - NLT Software (Trading Skill Accelerator)
- Unit 13 28.11.2023 to 08.12.2023 (10)**

Topic : Revision

Unit 14 11.12.2023 to 29.12.2023 (14)

Topic : Revision

Unit 15 & Rev. 08.01.2024 to 31.01.2024 (18)

Topic : Revision

ASSESSMENT SCHEDULE :

Periodic Asst-1 15.07.2023 to 21.07.2023

Topic : Ch-1

Half Yearly Exam 18.09.2023 to 30.09.2023

Topic : Ch-1 to 3

Periodic Asst-2 04.11.2023 to 10.11.2023

Topic : Ch-4

Periodic Asst-3 21.12.2023 to 29.12.2023

Topic : Ch-5

Annual Exams 01.02.2024 onwards (Tenta.)

Topic : Ch-1 to 6

HOME SCIENCE

Prescribed Books :**Objectives :**

- ◆ **Home Science** as a discipline aims to empower **learners** by developing understanding of five different areas namely:

- Food and Nutrition. Human Development, Childhood Studies. Resource Management.
- ◆ To acquire knowledge, conceptual understanding and skills to solve problems and make informed decisions in domestic contexts
 - ◆ To think analytically, critically and creatively to solve problems, judge arguments and make decisions in scientific and other contexts
 - ◆ To demonstrate attitudes and develop values of honesty and respect for themselves, others, and their shared environment.
 - ◆ To deals with reciprocal relations between the family and its natural and man-made environments.
 - ◆ To aims at getting maximum satisfaction for the person and their family members through the efficient and scientific use of your resources.

Unit 1 17.04.2023 to 21.04.2023 (05)

Topics : CH-1 Understanding oneself:

Learning Outcomes : Acquaint learners with the basics of human development with specific reference to self

Art Integration : Poster Making

Unit 2 24.04.2023 to 06.05.2023 (11)

Topics : CH-3 Food, nutrition, health and fitness

Learning Outcomes : ◆ Impart knowledge of nutrition and lifestyles to enable prevention and management of diseases.

◆ Inculcate healthy food habits.

Art Integration : Culinary skills

Unit 3 08.05.2023 to 19.05.2023 (10)

Topics : CH-4 Management of resources

Learning Outcomes : Help to develop skills of judicious management of various resources.

Art Integration : Flow Chart

Unit 4 22.05.2023 to 31.05.2023 (08)

Topics : CH-5 Fabric around US

Learning Outcomes : Help to develop an understanding of textiles for selection and care of clothes.

Art Integration : Make samples of basic stitches and embroidery

Unit 5 30.06.2023 to 15.07.2023 (13)

Topics : Ch-6 Media and communication technology

Learning Outcomes : Develop skills of communication to assist in advocacy and dissemination of knowledge to the community.

Art Integration : Pamphlet

Unit 6 17.07.2023 to 28.07.2023 (10)

Topics : Ch-7 Relationships and interactions with significant others

Learning Outcomes : To develop healthy relation with Family, School – peers and educators Community and Society

Art Integration : Skit

Unit 7 31.07.2023 to 11.08.2023 (10)

Topics : CH-8 Concerns and needs in diverse contexts

Learning Outcomes : To know the value of Time Management and Space Management.

Art Integration : Mind map

Unit 8 14.08.2023 to 26.08.2023 (10)

Topics : CH-9 Survival, Growth, and Development

Learning Outcomes : Students will be able to understand different phases of development.

Art Integration : Collage on different phases of growth and development

Unit 9 & Rev. 28.08.2023 to 16.09.2023 (15)

Topics : CH-10 Nutrition, Health, and Wellbeing

CH-11 Care and Education

Learning Outcomes : To understand Health & nutrition issues of school-age children.

Art Integration : Culinary skills

Unit 10 03.10.2023 to 13.10.2023 (09)

Topics : CH-12 Our Apparel-

Learning Outcomes : Understanding children basic clothing needs, Clothing requirements at different childhood stages, Clothing for children with special needs.

Art Integration : Diagram of clothing sample for children

Unit 11 16.10.2023 to 04.11.2023 (14)

Topics : CH-13 Health and Wellness

Learning Outcomes : Impart knowledge about Dimensions of wellness, Stress and coping with stress.

Art Integration : Flow Chart

Unit 12 06.11.2023 to 24.11.2023 (13)

Topics : Ch-14 Financial Management and Planning

Learning Outcomes : Classifies different sources of family income and importance of saving and investment.

Art Integration : Mind map of different investment plans

Unit 13 28.11.2023 to 08.12.2023 (10)

Topics : Ch-Media Communication Technology

Learning Outcomes : • Communication and Communication Technology

• Media classification and functions

Art Integration : Flow Chart

Unit 14 11.12.2023 to 29.12.2023 (14)

Topics : Ch-care and Maintenance of Fabric

Learning Outcomes : Stain removal Vegetable stains oil stains Techniques of stain removal Scraping Dipping Sponging

Art Integration : Stain removal

Unit 15 & Rev. 08.01.2024 to 31.01.2024 (18)

Topics : Practice Paper and Revision

ASSESSMENT SCHEDULE :

Extra Classes 22.05.2023 to 31.05.2023

Topics : Ch-1

Periodic Asst-1 15.07.2023 to 21.07.2023

Topics : Ch-2, 3

Half Yearly Exam 18.09.2023 to 30.09.2023

Topics : Ch-1 to 7

Periodic Asst-2 04.11.2023 to 10.11.2023

Topics : Ch-8, 9

Periodic Asst-3 21.12.2023 to 29.12.2023

Topics : Ch-10 & 11

Annual Exams 01.02.2024 onwards (Tenta.)

Topics :