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PREFACE

The syllabus for Class XII 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. Regular attendance is very important and the students have to meet the criteria as given by CBSE.

UNIT WISE DISTRIBUTION OF THE SYLLABUS (2023-24)**CLASS XII**

Unit	Dates		No. of Days
	From	To	
Unit 1	01.03.2023	31.03.2023	20 (Block Teaching)
Unit 2	01.04.2023	21.04.2023	13
Unit 3	24.04.2023	06.05.2023	11
Unit 4	08.05.2023	19.05.2023	10
Unit 5	22.05.2023	31.05.2023	08 (Extra Classes)
Summer Vacation	01.06.2023	29.06.2023	
Unit 6	30.06.2023	15.07.2023	13
Unit 7	17.07.2023	28.07.2023	10
Unit 8 & Rev.	31.07.2023	11.08.2023	11
Unit 9	28.08.2023	16.09.2023	14
Unit 10	18.09.2023	30.09.2023	10 (Block Teaching)
Unit 11	03.10.2023	13.10.2023	10
Unit 12 & Rev.	16.10.2023	31.10.2023	10 (Including Autumn Break)
Completion of Syllabus : Tuesday, 31.10.2023			
Winter Break	30.12.2023	06.01.2024	

REVISION SCHEDULE :

	Dates		No. of Days
	From	To	
Revision Pre-Board-1	01.11.2023	24.11.2023	16
Revision Pre-Board-2	14.12.2023	22.12.2023	06
Practicals Round-1	28.08.2023	31.08.2023	
Practicals Round-2	11.12.2023	13.12.2023	
Final Practical	To be announced by CBSE.		

EXAMINATION SCHEDULE :

Assessments	Dates	
	From	To
Block Teaching	01.03.2023	31.03.2023
Periodic Assessment-1	01.05.2023	08.05.2023
Extra Classes	22.05.2023	31.05.2023
Periodic Assessment-2	15.07.2023	21.07.2023
Half Yearly Exams	14.08.2023	25.08.2023
Block Teaching	18.09.2023	30.09.2023
Pre-Board-1	29.11.2023	08.12.2023
Pre-Board-2	27.12.2023	15.01.2024
Farewell for Class XII	: Saturday, 23rd December, 2023	
Blessing Ceremony	: To be announced later.	

ENGLISH CORE

Prescribed Books :**1. Flamingo (NCERT)****2. Vistas Supplementary Reader (NCERT)****Competencies to be focused on :**

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, arguing a case, 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 :

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 wideranging 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 notices, 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
- ♦ draft papers to be presented in symposia.
- ♦ take down notes from talks and lectures.

- ♦ write examination answers according to the requirement of various subjects.
- ♦ summarize 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, analyze 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.

Unit 1 01.03.2023 to 31.03.2023 (20)

Literature : The Enemy, Evans tries an O level, My mother at 66

Grammar : Revision of Articles, Letters to the editor

Art Integration : Location of Germany and Alsace (France) in the map of world

Unit 2 01.04.2023 to 21.04.2023 (13)

Literature : The Third Level, Lost Spring Keeping Quiet

Art Integration/Activity : Drawing the plan of the road to the third Level

Unit 3 24.04.2023 to 06.05.2023 (11)

Literature : The Last Lesson, Aunt Jennifer's Tigers,

W. Skills : Report, Notice

Art Integration : Presentation of PPT Scripting the story

Unit 4	08.05.2023 to 19.05.2023	(10)
Writing Skills : Invitation and Reply		
Literature : Journey to the end of the Earth		
Unit 5	22.05.2023 to 31.05.2023	(08)
Literature : Lost spring, An Elementary class room in a slum and Project Discussion		
W. Skills : Job Application		
Unit 6	30.06.2023 to 15.07.2023	(13)
Literature : A Thing of Beauty, The Tiger King		
W. Skills : Revision Notice		
Art Integration/Activity : Pictorial representation		
Unit 7	17.07.2023 to 28.07.2023	(10)
Literature : The Tiger King, Cont. Discussion on The Enemy		
Unit 8 & Rev.	31.07.2023 to 11.08.2023	(11)
W. Skills : Revision of Invitation and Reply		
Literature : Deep Water, The Interview, Poets and Pancakes		
Unit 9	28.08.2023 to 16.09.2023	(14)
W. Skills : Revision of Comprehension Skills, Revision for Half Yearly		
Unit 10	18.09.2023 to 30.09.2023	(10)
Literature : The Rattrap, A Road side stand		
Unit 11	03.10.2023 to 13.10.2023	(10)
Literature : Indigo, A Thing of Beauty, Journey to the end of the Earth		
W. Skills : Revision of the writing skill		
Unit 12 & Rev.	16.10.2023 to 31.10.2023	(10)
Literature : Going Places, On the face of it, Memories of Childhood and Revision		
EXAMINATION SCHEDULE :		
Periodic Asst-1	01.05.2023 to 08.05.2023	
Topics : Unit-1 to 3		
Periodic Asst-2	15.07.2023 to 21.07.2023	
Topics : Unit-4 & 5		
Half Yearly Exams	14.08.2023 to 25.08.2023	
Topics : Unit-1 to Unit-7, Deep Water		

Pre-Board-1	29.11.2023 to 08.12.2023
Topics : Entire Syllabus	
Pre-Board-2	27.12.2023 to 15.01.2024
Topics : Entire Syllabus	

MATHEMATICS

Prescribed Book : NCERT Text Book Class XII

Reference Book :

1. **Exemplar Problems by NCERT**
2. **DOE Support material**

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	01.03.2023 to 31.03.2023	(20)
Topics : Ch-3 & 4 Matrices & Determinants		
Art Integration : Create a Python programs		
Unit 2	01.04.2023 to 21.04.2023	(13)
Topics : Ch-1 Relation & Function		
Art Integration : To demonstrate a function which is not-one-one but is not onto.		
Unit 3	24.04.2023 to 06.05.2023	(11)
Topic : Ch-2 Inverse Trigonometry and Revision		
Art Integration/Lab Activity : To draw the graph of inverse of $\sin x$ using concept of mirror reflection.		
Unit 4	08.05.2023 to 19.05.2023	(10)
Topic : Ch-5 Continuity and Differentiability		
Art Integration/Lab Activity :		
1. To verify Rolle's theorem		
2. To verify Language's Mean Value theorem.		
Unit 5	22.05.2023 to 31.05.2023	(08)
Topic : Ch-6 Applications of Derivatives		
Art Integration/Lab Activity :		
1. To construct an open box of maximum volume from a given rectangular sheet.		
2. To verify that amongst all the rectangles of the same perimeter, the square has the maximum area.		
Unit 6	30.06.2023 to 15.07.2023	(13)
Topic : Ch-7 Integration		
Unit 7	17.07.2023 to 28.07.2023	(10)
Topic : Ch-7 Integration cont.		
Art Integration/Lab Activity : To evaluate the definite integral as a limit of sums.		
Unit 8 & Rev.	31.07.2023 to 11.08.2023	(11)
Topic : Ch-8 Applications of the Integrals		

Ch-9 Differential Equations		
Unit 9	28.08.2023 to 16.09.2023	(14)
Topic	: Ch-10 Vectors	
Unit 10	18.09.2023 to 30.09.2023	(10)
Topic	: Ch-11 3-D	
Art Integration/Lab Activity :		
1. To demonstrate equations of plane in normal form.		
2. To measure the shortest distance between two skew lines and verify it analytically.		
Unit 11	03.10.2023 to 13.10.2023	(10)
Topic	: Ch-12 Linear Programming Problems	
Unit 12 & Rev.	16.10.2023 to 31.10.2023	(10)
Topic	: Ch-13 Probability	
Art Integration/LabActivity : To explain the computation of conditional probability of a given event A, when event B has already occurred, through a pair of dice.		
EXAMINATION SCHEDULE :		
Periodic Asst-1	01.05.2023 to 08.05.2023	
Topic		
Periodic Asst-2	15.07.2023 to 21.07.2023	
Topic		
Half Yearly Exams	14.08.2023 to 25.08.2023	
Topic		
Pre-Board-1	29.11.2023 to 08.12.2023	
Topic		
Pre-Board-2	27.12.2023 to 15.01.2024	
Topic		

PHYSICS

Prescribed Book :

Physics Text Book NCERT

Reference Books :

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 01.03.2023 to 31.03.2023 (20)

Topic : Ch-1 Electric charges and field

Learning Outcomes : Students acquires the basic knowledge of Electric charges, concept of electrostatic force in vector form different distribution of charges, Electric field produced by different distribution of charges and its mathematical analysis. Student will be able to relate the phenomena of charging of a body with daily life.

Art integration/Lab Activities :

Presentation from the Students

❖ Different Graphs

❖ Diagrams

❖ Question bank

Unit 2 01.04.2023 to 21.04.2023 (13)

Topic : Ch-2 Electrostatic Potential and Capacitance

Learning Outcomes : Student will be able to relate the Electrical potential with electric field. Student will be able to understand the working of charge storing device i.e, capacitor

Art integration/Lab Activities :

Presentation from the Students

❖ Lab demonstration

❖ Question bank

❖ CBSE Sample Paper

Unit 3 24.04.2023 to 06.05.2023 (11)

Topic : Ch-3 Current Electricity

Learning Outcomes : Students are able to understand the concept of Potential difference and current and also the process of finding the unknown current in a loop using KVL and KCL. Students will be able to understand the practical application of resistors and cells and its different combination in real life.

Students will be able to operate different electrical

instruments like Potentiometer, Meter bridge, Galvanometer, Voltmeter, ammeter etc. also they learned

Art integration/Lab Activities :

1. To determine resistance per cm of a given wire by plotting a graph for potential difference versus current.
2. To find resistance of a given wire using metre bridge and hence determine the resistivity (specific resistance) of its material.
3. To verify the laws of combination (series) of resistances using a metre bridge.
4. To verify the laws of combination (parallel) of resistances using a metre bridge.
5. To compare the EMF of two given primary cells using potentiometer.
6. To determine the internal resistance of given primary cell using potentiometer.

Unit 4 08.05.2023 to 19.05.2023 (10)

Topic : Ch-4 Magnetic Effect of Current

Learning Outcomes : Student will learn about the relation between electricity and Magnetism and different methods to find the Magnetic field due to different types of conductor.

Student will learn about the force between two parallel conductors and its mathematical analysis depending upon the directions of current.

Student will learn about the conversion of galvanometer into ammeter and voltmeter of desired range.

Art integration/Lab Activities :

1. Experimental demonstration of Oersted's experiment.
2. Experimental demo of Plotting of Magnetic Field lines for Bar Magnet

Unit 5 22.05.2023 to 31.05.2023 (08)

Topic : Ch-5 Magnetism and matter

Learning Outcomes : Students will learn about

the different magnetic materials and their properties.

Students will learn about earth's magnetism and its element.

Unit 6 30.06.2023 to 15.07.2023 (13)

Topic : Ch-6 Electromagnetic Induction & Ch-7 Alternating Current

Learning Outcomes : Students will learn about the different method to induce an emf in a given conductor which is useful to understand the concept of Mutual and self induction.

Students acquire the basic knowledge about the Principle construction working and real life application of Transformer and AC Generator

Art integration/Lab Activities : To find the frequency of AC mains with a sonometer.

Unit 7 17.07.2023 to 28.07.2023 (10)

Topic : Ch-8 Electromagnetic Wave

Learning Outcomes : Student acquires knowledge about the Practical application of EMW in our Daily life.

Art integration/Lab Activities : Group discussion to discuss the Practical Applications of EMW in field of Communication, Medical, etc.

Unit 8 & Rev. 31.07.2023 to 11.08.2023 (11)

Topic : Ch-9 Ray Optics

Learning Outcomes : Student will learn about the different types of mirror and lenses and respective ray diagrams for image formation along the mathematical tactics and Analysis.

Student will learn the different optical phenomena of in our daily life like Colour of a sky and cloud, Advanced sunrise and delayed sunset etc.

Art integration/Lab Activities :

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

using a convex lens.

3. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$.
4. To find the focal length of a concave lens, using a convex lens.
5. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
6. To determine refractive index of a glass slab using a travelling microscope.

Unit 9 28.08.2023 to 16.09.2023 (14)

Topic : Chapter 10-Wave Optics

Learning Outcomes : Student will learn about the Wave nature of light

Learner will be able to learn interference, diffraction pattern and polarisation.

Art integration/Lab Activities :

Presentation from the Students

❖ Question bank

❖ CBSE Sample Paper

Unit 10 18.09.2023 to 30.09.2023 (10)

Topic : Ch-11 Dual nature of matter and Atom

Learning Outcomes : Learners will be able to understand the dual nature of light (Wave and Particle) along with experimental and mathematical verification

Art integration/Lab Activities :

Presentation from the Students

❖ Question bank

❖ CBSE Sample Paper

Unit 11 03.10.2023 to 13.10.2023 (10)

Topic : Ch-12 Atoms and Ch-13 Nuclei

Learning Outcomes : Learners will be able to understand the Concept of atoms and nuclei with help of different models developed by different

scientists (Rutherford's model, bohr's model etc.)

Art integration/Lab Activities :

Presentation from the Students

v Question bank

v CBSE Sample Paper

Unit 12 & Rev. 16.10.2023 to 31.10.2023 (10)

Topic : Ch-14 Semiconductor Electronics

Learning Outcomes : Learners will be able to understand the Concept of Conductors, Insulator and semiconductor with the help of Band Energy Theory.

Learners will be able to understand the Classification of semiconductors along with Practical applications in PN diode, Rectifiers, Optoelectronic devices.

Art integration/Lab Activities :

1. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias.
2. To draw the characteristic curve of a zener diode and to determine its reverse break down voltage.

EXAMINATION SCHEDULE :

Periodic Asst-1 01.05.2023 to 08.05.2023

Topic : Ch-1

Periodic Asst-2 15.07.2023 to 21.07.2023

Topic : Ch-2 and 3

Half Yearly Exams 14.08.2023 to 25.08.2023

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

Pre-Board-1 29.11.2023 to 08.12.2023

Topic : Full Syllabus

Pre-Board-2 27.12.2023 to 15.01.2024

Topic : Full Syllabus

CHEMISTRY

Prescribed Book :

Unit 1 01.03.2023 to 31.03.2023 (20)

Topic : Solutions

Unit 2	01.04.2023 to 21.04.2023	(13)
Topic	: Electrochemistry	
Unit 3	24.04.2023 to 06.05.2023	(11)
Topic	: Chemical Kinetics	
Unit 4	08.05.2023 to 19.05.2023	(10)
Topic	: d and f block elements	
Unit 5	22.05.2023 to 31.05.2023	(08)
Topic	: Coordination compounds	
Unit 6	30.06.2023 to 15.07.2023	(13)
Topic	: Haloalkane and arene	
Unit 7	17.07.2023 to 28.07.2023	(10)
Topic	: Alcohol, Phenol and Ether	
Unit 8 & Rev.	31.07.2023 to 11.08.2023	(11)
Topic	: Carbonyl compound and carboxylic acid	
Unit 9	28.08.2023 to 16.09.2023	(14)
Topic	: Amines	
Unit 10	18.09.2023 to 30.09.2023	(10)
Topic	: Biomolecules	
Unit 11	03.10.2023 to 13.10.2023	(10)
Topic	: Deleted Chapters	
Unit 12 & Rev.	16.10.2023 to 31.10.2023	(10)
Topic	: Deleted Chapters	

BIOLOGY

Prescribed Book :

1. **Biology Text Book-12 NCERT**
2. **X-am Idea**
3. **Truemann to the point series**
4. **Champion Biology (Dinesh Publications)**
5. **Practical File : Samar Practical file**
6. **Practical Manual : Comprehensive**

Objectives :

- ❖ To promote understanding of basic principles of Biology.
- ❖ To encourage learning of emerging

knowledge and its relevance to individual and society.

- ❖ To promote rational/scientific attitude to issues related to population, environment and development.
- ❖ To enhance awareness about environmental issues, problems and their appropriate solutions.
- ❖ To create awareness amongst the learners about diversity in the living organisms and developing respect for other living beings.
- ❖ To appreciate that the most complex biological phenomena are built on essentially simple processes.

Unit 1 01.03.2023 to 31.03.2023 (20)

**Topic : Ch-2 : Sexual Reproduction in Flowering Plants
Ch-3 : Human Reproduction**

Learning outcomes :

1. Gain knowledge about concepts of reproduction and will be able to relate it with variation and evolution
2. Will be able to relate organism's body design to complexity of reproduction method
3. Able to use gained knowledge for practical purpose or in day to day life i.e will be able to identify fruit or seed type
4. Can apply knowledge gained on pollination in crop breeding
5. Able to correlate flower type with pollination methodology adopted
6. To relate basic functioning of human body wrt reproduction and learn the significance of it.

Art integration :

1. Collage of different asexual reproduction methods.
2. Flow chart on steps of sexual reproduction

3. Creative diagrams of Micro and megasporogenesis
4. Exit cards of structure of mega and microsporangium
4. Flow chart of zygote
5. Collection of different types of seeds

Unit 2 01.04.2023 to 21.04.2023 (13)

Topic : Ch-3 : Human Reproduction
(contd.)
Ch-4 Reproductive Health

Learning outcomes :

1. To apply basic knowledge gained in practical aspects of life
2. Can correlate the healthy reproductive systems with good fetal development
3. Can relate reproductive healthy habits to better reproductive health
4. Can apply knowledge gained in educating masses

Art integration :

1. Word wall for difficult terms along with meaning
2. Creative diagrams of reproductive systems
3. Diagram of transverse sections of gonads
4. Flowchart on gametogenesis
5. Role play on method of contraception and their functions
6. Flowchart on ART

Unit 3 24.04.2023 to 06.05.2023 (11)

Topic : Ch-5 : Principles of Inheritance and Variation

Learning Outcomes :

1. Gain knowledge about concepts of genes / alleles and apply the concepts to higher domains when needed
2. Can correlate the blood groups and gene nature

3. Can correlate the skin color as additive effect of genes
4. Can apply knowledge gained in predicting the inheritance pattern of any genetic disorder in a family tree

Art Integration :

1. Word wall of terms of genetics with meaning
2. Punnet square presentation of any cross
3. Tabulation of blood groups and alleles involved
4. Chart of genetic disorder and their symptoms
5. Drawing any pedigree of any genetic disorder or analysing any pedigree.

Unit 4 08.05.2023 to 19.05.2023 (10)

Topic : Ch-6 : Molecular Basis of Inheritance

Learning Outcomes :

1. Gain knowledge about genetic material DNA, its structure and the various experiments related to its discovery.
2. Gain knowledge about concepts of DNA and apply the concepts to higher domains when needed i.e. RAPD, RFLP and AFLP.
3. Can correlate the error in DNA copying to variation
4. Can comprehend the difference between pro and eukaryotic transcription and can relate it to their internal structure

Art Integration :

1. Model making of DNA using straw and pastel sheet
2. Making nucleosome model using ball and wires
3. Flow chart on DNA replication.
4. Table of enzymes in molecular biology with functions
5. Diagram of prokaryotic and eukaryotic transcription

Unit 5 22.05.2023 to 31.05.2023 (08)

Topic : Ch-6 : Molecular Basis of Inheritance Contd.
Ch-7 : Evolution and Revision

Learning outcomes :

1. Can comprehend the process of translation, various factors influencing it and its importance in human body.
2. Can understand the gene regulation at different levels : Lac operon
3. Can correlate the sequencing of human genome as path breaking study for genetic disease treatments
4. Will be able to categorise groups/phylas animals as old or recent on the basis of their evolutionary roots
5. Can relate to phlogeny of any organism
6. Can correlate and trace out ancestors of any group

Art integration :

1. Diagram of translation occurring in a ribosome.
2. Diagram Lac operon
3. Diagram of Miller and Urey's experimental set up Human evolution chart
4. Graphs of different ways of natural selection

Unit 6 30.06.2023 to 15.07.2023 (13)

Topic : Ch-8 : Human Health and Diseases

Learning outcomes :

1. To apply basic concepts in daily life for better prevention from deadly infectious diseases like AIDS
2. Can read a vaccination card
3. Can correlate the importance of immunity types under different situations i.e snake bite / accident etc
4. Can compare traditional vaccines with a much newer concepts like edible vaccines and

genetically engineered vaccines

Art Integration :

1. Table on infectious diseases with casual, organism, symptoms, mode of spread and treatment
2. Diagram of life cycle of HIV – AIDS virus
3. Flow chart on working mechanism of immune responses

Unit 7 17.07.2023 to 28.07.2023 (10)

Topic : Ch-10 Microbes in Human Welfare

Learning Outcomes :

1. Will gain knowledge about microbes and their traditional and industrial uses.

Art Integration :

1. Flow chart on Sewage treatment
2. Table of microbes and their products

Unit 8 & Rev. 31.07.2023 to 11.08.2023 (11)

Topic : Ch-11 : Biotechnology-Principles and Processes

Learning outcomes :

1. Gain knowledge about concepts of genetic engineering and apply the concepts to higher domains
2. Can relate to the need of different enzymes and vectors in plants and animals
3. Can relate the knowledge gained to current research field of nif genes transfer in non leguminous plants

Art Integration :

1. Diagram of mechanism of action of Eco RI to form rDNA
2. Diagram of bioreactors
3. Flow chart on steps of forming a recombinant protein

Unit 9 28.08.2023 to 16.09.2023 (14)

Topic : Ch-12 : Biotechnology and its Application

Learning outcomes :

1. Gained knowledge about concepts can be applied to the concepts of higher domains
2. Can relate to the benefits reaped by genetically engineered insulin over normal insulin

Art integration :

1. Flow charts on production of Bt-cotton plant
2. Exit cards on steps of nematode resistant plant
3. Diagram of insulin

Unit 10 18.09.2023 to 30.09.2023 (10)

Topic : Ch-13 : Organisms and Populations
Ch-14 : Ecosystem

Learning outcomes :

1. Able to relate to their distribution of organisms on the basis of factors and organism's attributes
2. Able to comprehend the need of methods to escape stressful conditions by certain group of organisms
3. Able to relate to emphasis of interactions among different populations in ecosystems to their survival value

Art integration :

1. World wall of ecological terms with meaning
2. Presentation on population interactions and their examples

Unit 11 03.10.2023 to 13.10.2023 (10)

Topic : Ch-14 : Ecosystem Contd.
Ch-15 : Biodiversity and its Conservation

Learning outcomes :

1. Gained knowledge can be applied to save and conserve biodiversity and natural resources
2. Can relate and value the services provided free of cost by nature

Art integration :

1. Diagram of different ecological pyramids
2. Charts on patterns of biodiversity
3. Flow chart on FOAM

Unit 12 & Rev. 16.10.2023 to 31.10.2023 (10)

Topic : Ch-16 : Environmental Issues

Learning outcomes :

1. Knowledge gained will be applied in being a responsible citizen and saving resources
2. Able to relate to working of different devices and policies and their role in pollution control

Art integration :

1. Diagram of electrostatic precipitator and scrubber
2. Small play on air pollution and its consequences
3. Able to relate to climate changes as a consequences of enhanced greenhouse effect

EXAMINATION SCHEDULE :

Periodic Asst-1 01.05.2023 to 08.05.2023

Topic : Ch-4, Ch-2 and Ch-3

Periodic Asst-2 15.07.2023 to 21.07.2023

Topic : Ch-5 and Ch-6

Half Yearly Exams 14.08.2023 to 25.08.2023

Topic : Ch-1, 2, 3, 4, 5, 6, 7, 8 and Ch-10

Pre-Board-1 29.11.2023 to 08.12.2023

Topic : Full Syllabus

Pre-Board-2 27.12.2023 to 15.01.2024

Topic : Full Syllabus

COMPUTER SCIENCE

Prescribed Book :

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

Learning Outcomes : Student should be able to :

- a) apply the concept of function and recursion

- b) create and use Python libraries.
- c) explain and use the concept of file handling.
- d) explain the concept of efficiency in algorithms and computing in general.
- e) use basic data structure: Stacks and Queues.
- f) explain basics of computer networks.
- g) use Database concepts, SQL along with connectivity between Python and SQL.

Unit 1 01.03.2023 to 31.03.2023 (20)

Topic : Revision of Python topics covered in Class XI
Functions in Python

Activity/Art Integration : Programs of Python topics covered in class XI

Unit 2 01.04.2023 to 21.04.2023 (13)

Topic : User define Functions

Activity/Art Integration : Python programs of functions

Unit 3 24.04.2023 to 06.05.2023 (11)

Topic : Introduction to Files
Types of Files

Activity/Art Integration : Python programs of Files

Unit 4 08.05.2023 to 19.05.2023 (10)

Topic : CSV Files

Activity/Art Integration : Python Programs of CSV Files

Unit 5 22.05.2023 to 31.05.2023 (08)

Topic : Python Libraries

Activity/Art Integration : Python Programs of libraries

Unit 6 30.06.2023 to 15.07.2023 (13)

Topic : Recursion

Activity/Art Integration : Python Programs of Recursion

Unit 7 17.07.2023 to 28.07.2023 (10)

Topic : Idea of Efficiency

Unit 8 & Rev. 31.07.2023 to 11.08.2023 (11)

Topic : Data Structure

Activity/Art Integration : Python Programs of Data Structure

Unit 9 28.08.2023 to 16.09.2023 (14)

Topic : Data Structure

Activity/Art Integration : Python Programs of Data Structure

Unit 10 18.09.2023 to 30.09.2023 (10)

Topic : Computer Networks

Activity/Art Integration : PPT on Computer Networking

Unit 11 03.10.2023 to 13.10.2023 (10)

Topic : Computer Networks

Activity/Art Integration : PPT on Computer Networking

Unit 12 & Rev. 16.10.2023 to 31.10.2023 (10)

Topic : Database Management

Activity/Art Integration : My SQL Commands

EXAMINATION SCHEDULE :

Periodic Asst-1 01.05.2023 to 08.05.2023

Topic : Unit-1, 2

Extra Classes 22.05.2023 to 31.05.2023

Topic : Unit-1, 2

Periodic Asst-2 15.07.2023 to 21.07.2023

Topic : Unit-3, 4 and 5

Half Yearly Exams 14.08.2023 to 25.08.2023

Topic : Unit-1 - 7

Pre-Board-1 29.11.2023 to 08.12.2023

Topic : Entite Syllabus

Pre-Board-2 27.12.2023 to 15.01.2024

Topic : Entite Syllabus

INFORMATICS PRACTICES (065)

Prescribed Book :

Outcomes :

At the end of this course, students will be able to :

- Create series, Data frames and apply various operations.
- Visualize data using relwvant graphs.
- Design SQL queries using aggregate functions.
- Import/Export data between SQL database and Pandas.
- Learn terminology related to networking and internet.
- Identify internet security issues and configure browser settings.
- Understand the impact of technology on society including gender and disability issues

Unit 1 01.03.2023 to 31.03.2023 (20)

Topic : Data Handling Using Pandas

Activity/Art Integration : Create a Python programs

Unit 2 01.04.2023 to 21.04.2023 (13)

Topic : Data Structures in Pandas

Activity/Art Integration : Create a panda's series from a dictionary

Unit 3 24.04.2023 to 06.05.2023 (11)

Topic : Series and Data Frames

Activity/Art Integration : Create a Data Frame

Unit 4 08.05.2023 to 19.05.2023 (10)

Topic : Data Visualization

Activity/Art Integration : Programs using Matplotlib

Unit 5 22.05.2023 to 31.05.2023 (08)

Topic : Data Visualization

Activity/Art Integration : Programs using Matplotlib

Unit 6 30.06.2023 to 15.07.2023 (13)

Topic : Database Query using SQL

Activity/Art Interation : Create Database and Tables

Unit 7 17.07.2023 to 28.07.2023 (10)

Topic : My SQL

Activity/Art Interaction : Create Database and Tables
Unit 8 & Rev. 31.07.2023 to 11.08.2023 (11)
Topic : Project
Activity/Art Interaction : Project work
Unit 9 28.08.2023 to 16.09.2023 (14)
Topic : Introduction to Computer Networks
Activity/Art Interaction : PPT on Computer Network
Unit 10 18.09.2023 to 30.09.2023 (10)
Topic : Societal Impacts
Activity/Art Interaction : PPT on Social Impact
Unit 11 03.10.2023 to 13.10.2023 (10)
Topic : Project using Pandas and Matplotlib
Activity/Art Interaction : Project work using Pandas and Matplotlib
Unit 12 & Rev. 16.10.2023 to 31.10.2023 (10)
Topic : Programs using Pandas and Matplotlib
Activity/Art Interaction : Project work using Pandas and Matplotlib

FINE ARTS (Painting-049)

Prescribed Book :

General Objectives :

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

Learning Outcomes :

- Apply elements (line, shape, form, texture,

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

- Identify and discriminate between types of shape (geometric and organic), colors (primary, secondary, complementary, intermediates, neutrals, tints, tones, shades and values), lines (characteristics, quality), textures (tactile and visual), and space (background, middle ground, foreground, placement, perspective, overlap, negative, converging lines positive, size, color), balance (symmetrical, asymmetrical, radial) and the use of proportion, rhythm, variety, repetition, and movement in their work and the works of others.
- Students develop and apply skills using a variety of two dimensional and three dimensional media, tools, and processes to create works that communicate personal meaning.

Unit 1 01.03.2023 to 31.03.2023 (20)

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

Theory : Short notes on Art, What is Art, parts of painting modern Art, Miniature painting, Graphic Art commercial Art & Sculpture.

Unit 2 01.04.2023 to 21.04.2023 (13)

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

Theory : Main features of Rajasthan origin and development of Mewar,

Bundi, Bikaner, Jodhpur, Kishan Garh and Jaipur.

Unit 3 24.04.2023 to 06.05.2023 (11)

Practical : Start new model with Pencil Drawing.

Theory : Origin & development of 17th cent AD to 18th cent AD of Pahari School.

Unit 4 08.05.2023 to 19.05.2023 (10)

Practical : Composition on any subject (Rainy day or flood) sketch with pencil draw more than three figures

Theory : Mughal School of Miniature painting 16th cent AD to 19th AD. Its features painting during Akbar & Jahangir period.

Unit 5 22.05.2023 to 31.05.2023 (08)

Practical : Model start with pencil (two or three object with Drapery).

Theory : Mughal period Jahangir & Aurangzeb period & painting. Study of seven plates (Painting of Mughal period & Artist).

Unit 6 30.06.2023 to 15.07.2023 (13)

Practical : Composition with pencil sketch (on any subject) festival

Theory : Study of Deccan school of miniature painting 16th cent AD to 19th cent AD

Unit 7 17.07.2023 to 28.07.2023 (10)

Practical : New model start with pencil

Theory : Revision

Unit 8 & Rev. 31.07.2023 to 11.08.2023 (11)

Practical : Figure sketching

Theory : Short notes on Hyderabad, Bijapur & Gol Konda Art. Complete the Deccan period

Unit 9	28.08.2023 to 16.09.2023	(14)
Practical	: Composition with pencil sketch (on any subject)	
Theory	: New Era in Indian art- An Introduction	
Unit 10	18.09.2023 to 30.09.2023	(10)
Practical	: Model start with pencil (two or three object with Drapery)	
Theory	: Study of contemporary Indian art Painting and Graphics	
Unit 11	03.10.2023 to 13.10.2023	(10)
Practical	: Composition with pencil sketch (on any subject) (two or three object with Drapery)	
Theory	: Study of the sculpture	
Unit 12 & Rev.	16.10.2023 to 31.10.2023	(10)
Practical	: Model start with pencil (two or three object with Drapery)	
Theory	: Revision	

ACCOUNTANCY

Prescribed Book : D.K. GOEL

General Objectives :

1. To familiarize students with new and emerging areas in the preparation and presentation of financial statements.
2. To acquaint students with basic accounting concepts and accounting standards.
3. To develop the skills of designing need based accounting database.
4. To appreciate the role of ICT in business operations.
5. To develop an understanding about recording of business transactions and preparation of financial statements.
6. To enable students with accounting for Partnership Firms, company accounts and

analysis of financial statements.

Unit 1 **01.03.2023 to 31.03.2023** **(20)**

Topic : Accounting of partnership firm-
Fundamental

Learning Outcomes :

- state the meaning of partnership, partnership firm and partnership deed.
- describe the characteristic features of partnership and the contents of partnership deed.
- discuss the significance of provision of Partnership Act in the absence of partnership deed.
- differentiate between fixed and fluctuating capital, outline the process and develop the understanding and skill of preparation of Profit and Loss Appropriation Account.

Art Integration : Preparing different Ledger in proper formats

Unit 2 **01.04.2023 to 21.04.2023** **(13)**

Topic : Change in profit sharing ratio
among existing partner

Learning Outcomes : state the meaning of sacrificing ratio, gaining ratio and the change in profit sharing ratio among existing partners.

Art Integration : Preparing Journal using proper formats

Unit 3 **24.04.2023 to 06.05.2023** **(11)**

Topic : Admission of partner

Learning Outcomes :

- develop the understanding of accounting treatment of revaluation assets and reassessment of liabilities and treatment of reserves and accumulated profits by preparing revaluation account and balance sheet.
- explain the effect of change in profit sharing ratio on admission of a new partner.

Art Integration : Preparing different Ledger in proper formats

Unit 4 **08.05.2023 to 19.05.2023** **(10)**

Topic : Admission of partner continue

Learning Outcomes :

- develop the understanding of accounting treatment of revaluation assets and reassessment of liabilities and treatment of reserves and accumulated profits by preparing revaluation account and balance sheet.
- explain the effect of change in profit sharing ratio on admission of a new partner.

Unit 5 **22.05.2023 to 31.05.2023** **(08)**

Topic : Retirement & Death of partnership

Learning Outcomes :

- explain the effect of retirement / death of a partner on change in profit sharing ratio.
- develop the understanding of accounting treatment of goodwill, revaluation of assets and re-assessment of liabilities and adjustment of accumulated profits and reserves on retirement / death of a partner.
- discuss the preparation of the capital accounts of the remaining partners and the balance sheet of the firm after retirement / death of a partner.

Art Integration : Flow Chart Explaining Various Accounts

Unit 6 **30.06.2023 to 15.07.2023** **(13)**

Topic : Dissolution of partnership

Learning Outcomes :

- understand the situations under which a partnership firm can be dissolved.
- develop the understanding of preparation of realisation account and other related accounts.

Art Integration : Preparing different Ledger in proper formats

Unit 7 17.07.2023 to 28.07.2023 (10)

Topic : Company accounts-Issue of shares

Learning Outcomes :

- state the meaning of share and share capital and differentiate between equity shares and preference shares and different types of share capital.
- understand the meaning of private placement of shares and Employee Stock Option Plan.
- explain the accounting treatment of share capital transactions regarding issue of shares.

Art Integration : Preparing Journal using proper formats

Unit 8 & Rev. 31.07.2023 to 11.08.2023 (11)

Topic : Company accounts-Issue of shares continue

Learning Outcomes :

- develop the understanding of accounting treatment of forfeiture and re-issue of forfeited shares.
- describe the presentation of share capital in the balance sheet of the company as per schedule III part I of the Companies Act 2013.

Art Integration : Preparing Journal using proper formats

Unit 9 28.08.2023 to 16.09.2023 (14)

Topic : Issue of debentures

Learning Outcomes :

- explain the accounting treatment of different categories of transactions related to issue of debentures.
- develop the understanding and skill of writing of discount / loss on issue of debentures.

- understand the concept of collateral security and its presentation in balance sheet.
- develop the skill of calculating interest on debentures and its accounting treatment.

Art Integration : Preparing Journal using proper formats

Unit 10 18.09.2023 to 30.09.2023 (10)

Topic : Financial statement analysis, Tools of financial analysis,

Learning Outcomes :

- develop the understanding of major headings and sub-headings (as per Schedule III to the Companies Act, 2013) of balance sheet as per the prescribed norms / formats.
- state the meaning, objectives and limitations of financial statement analysis.
- discuss the meaning of different tools of 'financial statements analysis'.

Art Integration : Flow Chart

Unit 11 03.10.2023 to 13.10.2023 (10)

Topic : Accounting Ratio

Learning Outcomes :

- state the meaning, objectives and significance of different types of ratios.
- develop the understanding of computation of current ratio and quick ratio.
- develop the skill of computation of debt equity ratio, total asset to debt ratio, proprietary ratio and interest coverage ratio.
- develop the skill of computation of inventory turnover ratio, trade receivables and trade payables ratio and working capital turnover ratio.
- develop the skill of computation of gross profit ratio, operating ratio, operating profit ratio, net profit ratio and return on investment.

Art Integration : Flow Chart Explaining Various Ratios

Unit 12 & Rev. 16.10.2023 to 31.10.2023 (10)

Topic : Cash Flow statement Revision

EXAMINATION SCHEDULE :

Periodic Asst-1 01.05.2023 to 08.05.2023

Topic : Ch-2

Periodic Asst-2 15.07.2023 to 21.07.2023

Topic : Ch-2 and 3

Half Yearly Exams 14.08.2023 to 25.08.2023

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

Pre-Board-1 29.11.2023 to 08.12.2023

Topic : Full Syllabus

Pre-Board-2 27.12.2023 to 15.01.2024

Topic : Full Syllabus

BUSINESS STUDIES

Prescribed Book : NCERT

Reference Books :

1. G.S. Alag
2. Subhash Dey
3. Alka Dhawan
4. Tappan Pathak (bull's eye)

General Objectives :

- ❖ Student will gain knowledge, skills and experience to management and business world.

Objectives :

- ❖ To empower the learner to learn how to manage business, understanding importance of management and to become efficient.

Unit 1 01.03.2023 to 31.03.2023 (20)

Topic : Marketing Management

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

- Understand the concept of marketing.

- Explain the features of marketing.
- Discuss the functions of marketing.
- Explain the marketing philosophies.
- Understand the concept of marketing mix.
- Describe the elements of marketing mix.
- Understand the concept of product as an element of marketing mix.
- Understand the concept of branding, labelling and packaging.
- Understand the concept of price as an element of marketing mix.
- Describe the factors determining price of a product.
- Understand the concept of physical distribution.
- Explain the components of physical distribution.
- Describe the various channels of distribution

Art Integration :

- ◆ Case studies
- ◆ Flow charts
- ◆ Role play

Unit 2 01.04.2023 to 21.04.2023 (13)

**Topic : Marketing Management
 Consumer protection**

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

- Understand the concept of promotion as an element of marketing mix.
- Describe the elements of promotion mix.
- Understand the concept of advertising.
- Understand the concept of sales promotion.
- Discuss the concept of public relation.

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

- Understand the concept of consumer protection.
- Discuss the scope of Consumer Protection

Act, 2019

- Describe the importance of consumer protection
- Understand the concept of a consumer according to the Consumer protection Act 2019.
- Explain the consumer rights
- Understand the responsibilities of consumers
- Understand who can file a complaint and against whom ?
- Discuss the legal redressal machinery under Consumer protection Act 2019.
- Examine the remedies available to the consumer under Consumer protection Act 2019.
- Describe the role of consumer organizations and NGOs in protecting consumers' interest

Art Integration :

- ◆ Case studies
- ◆ Flow charts

Unit 3 24.04.2023 to 06.05.2023 (11)

Topic : Principles of Management

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

- Understand the concept of principles of management.
- Explain the significance of management principles.
- Discuss the principles of management developed by Fayol.
- Explain the principles and techniques of 'Scientific Management'.
- Compare the contributions of Fayol and Taylor.

Art Integration :

- ◆ Case studies
- ◆ Flow charts

Unit 4 08.05.2023 to 19.05.2023 (10)

Topic : Business environment

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

- Understand the concept of 'Business Environment'.
- Describe the importance of business environment
- Describe the various dimensions of 'Business Environment'.
- Understand the concept of demonetization

Art Integration :

- ◆ Case studies
- ◆ Flow charts

Unit 5 22.05.2023 to 31.05.2023 (08)

**Topic : Nature and Significance of
 Management**

- Project Work

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

- Understand the concept of management.
- Explain the meaning of 'Effectiveness and Efficiency.
- Discuss the objectives of management.
- Describe the importance of management.
- Examine the nature of management as a science, art and profession.
- Understand the role of top, middle and lower levels of management
- Explain the functions of management.
- Discuss the concept and characteristics of coordination.
- Explain the importance of coordination.

Art Integration :

- ◆ Flow charts

Unit 6 30.06.2023 to 15.07.2023 (13)

Topic : Planning

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

- Understand the concept of planning.
- Describe the importance of planning.
- Understand the limitations of planning.
- Describe the steps in the process of planning.
- Develop an understanding of single use and standing plans.
- Describe objectives, policies, strategy, procedure, method, rule, budget and programme as type of plans.

Art Integration :

- ◆ Case studies
- ◆ Flow charts

Unit 7 **17.07.2023 to 28.07.2023** **(10)**

Topic : Controlling
 Organising

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

- Understand the concept of controlling.
- Explain the importance of controlling.
- Discuss the steps in the process of controlling.
- Describe the Relationship between planning and controlling

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

- Understand the concept of organizing as a structure and as a process.
- Explain the importance of organising.
- Describe the steps in the process of organizing
- Describe functional and divisional structures of organisation.
- Explain the advantages, disadvantages and suitability of functional and divisional structure.
- Understand the concept of delegation.
- Describe the elements of delegation.

- Appreciate the importance of Delegation.
- Understand the concept of decentralisation.
- Explain the importance of decentralisation.
- Differentiate between delegation and decentralization
- Understand the concept of formal and informal organisation.
- Discuss the advantages, disadvantages of formal and informal organisation.

Art Integration :

- ◆ Case studies
- ◆ Flow charts

Unit 8 & Rev. 31.07.2023 to 11.08.2023 **(11)**

Topic : Staffing

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

- Understand the concept of staffing.
- Explain the importance of staffing
- Understand the specialized duties and activities performed by Human Resource Management.
- Describe the steps in the process of staffing
- Understand the meaning of recruitment.
- Discuss the sources of recruitment.
- Explain the merits and demerits of internal and external sources of recruitment.
- Understand the meaning of selection.
- Describe the steps involved in the process of selection.
- Understand the concept of training and development
- Appreciate the importance of training to the organisation and to the employees.
- Discuss the meaning of induction training, vestibule training, apprenticeship training and internship training.
- Differentiate between training and development.

- Discuss on the job and off the job methods of training.

Art Integration :

- ◆ Case studies
- ◆ Flow charts

Unit 9 **28.08.2023 to 16.09.2023** **(14)**

Topic : Revision for Half Yearly Exams

Unit 10 **18.09.2023 to 30.09.2023** **(10)**

Topic : Directing

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

- Describe the concept of directing.
- Discuss the importance of directing.
- Describe the various elements of directing
- Understand the concept of motivation.
- Develop an understanding of Maslow's Hierarchy of needs.
- Discuss the various financial and non-financial incentives.
- Understand the concept of leadership.
- Understand the various styles of leadership.
- Understand the concept of communication
- Understand the elements of the communication process.
- Discuss the concept of formal and informal communication.
- Discuss the various barriers to effective communication.
- Discuss the remedies to overcome the barriers for effective communication.

Art Integration : Flow charts

Unit 11 **03.10.2023 to 13.10.2023** **(10)**

Topic : Financial Management

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

- Understand the concept of financial management.
- Explain the role of financial management in an organisation.

- Discuss the objectives of financial management
- Discuss the three financial decisions and the factors affecting them.
- Describe the concept of financial planning and its objectives.
- Explain the importance of financial planning.
- Understand the concept of capital structure.
- Describe the factors determining the choice of an appropriate capital structure of a company.
- Understand the concept of fixed and working capital.
- Describe the factors determining the requirements of fixed and working capital

Art Integration :

- ◆ Case studies
- ◆ Flow charts
- ◆ Role play

Unit 12 & Rev. 16.10.2023 to 31.10.2023 (10)

Topic : Financial Market

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

- Understand the concept of financial market.
- Understand the concept of capital market
- Understand the concept of money market.
- Explain primary and secondary markets as types of capital market.
- Differentiate between capital market and money market.
- Distinguish between primary and secondary markets.
- Give the meaning of a stock exchange.
- Explain the functions of a stock exchange.
- Discuss the trading procedure in a stock exchange.
- Give the meaning of depository services and demat account as used in the trading

procedure of securities.

- State the objectives of SEBI.
- Explain the functions of SEBI.

Art Integration :

- ◆ Case studies
- ◆ Flow charts

EXAMINATION SCHEDULE :

Periodic Asst-1 01.05.2023 to 08.05.2023

Topic : • Nature and Significance of Management

Periodic Asst-2 15.07.2023 to 21.07.2023

Topic : • Principles of Management
• Nature and Significance of Management
• Marketing Management
• Business environment

Half Yearly Exams 14.08.2023 to 25.08.2023

Topic : • Marketing Management
• Consumer protection
• Principles of Management
• Business environment
• Nature and Significance of Management
• Planning
• Controlling
• Organising

Pre-Board-1 29.11.2023 to 08.12.2023

Topic : All Chapters

Pre-Board-2 27.12.2023 to 15.01.2024

Topic : All Chapters

ECONOMICS (030)

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 01.03.2023 to 31.03.2023 (20)

Topics : Money and Banking

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

- ◆ Understand the concept of money and banking.
- ◆ Meaning and functions, supply of money.
- ◆ Currency held by the public and net demand deposits held by commercial banks.
- ◆ Money creation by the commercial banking system.
- ◆ Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt. Bank, Banker's Bank, Control of Credit through Bank Rate, CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement.
- ◆ What is Macroeconomics
- ◆ Basic concepts in macroeconomics: consumption goods, capital goods, final goods, intermediate goods, stocks and flows, gross investment and depreciation.
- ◆ Circular flow of income (two sector model)

Art Integration :

- ◆ Case studies

- ◆ Flow charts

Unit 2 01.04.2023 to 21.04.2023 (13)

Topics : National Income

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

- ◆ Understand the concept methods of calculating National Income - Value Added or Product method, Expenditure method, Income method.
- ◆ Precautions of all the three methods.

- ◆ Numerical Practice

Art Integration :

- ◆ Numerical Practice

- ◆ Flow charts

- ◆ Class Test

Unit 3 24.04.2023 to 06.05.2023 (11)

Topics : National Income

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

- ◆ Understand the concept A brief introduction of the state of Indian economy on the eve of Independence
- ◆ Features of Indian Economy on the eve of Independence.

- ◆ Industrial Sector

Art Integration :

- ◆ Question answers

- ◆ Case studies

- ◆ Flow charts

Unit 4 08.05.2023 to 19.05.2023 (10)

Topics : Indian Economy on the eve of Independence (1947-50)

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

- ◆ Understand the concept A brief introduction of the state of Indian economy on the eve of independence.

- ◆ Agricultural sector

- ◆ Occupational structure

- ◆ Demographic Transections of country.

Art Integration :

- ◆ Question answers

- ◆ Case Studies

- ◆ Flow charts

Unit 5 22.05.2023 to 31.05.2023 (08)

Topics : Indian Economy on the eve of Independence (1951-90)

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

- ◆ Understand the Main features, problems and policies of agriculture
- ◆ (institutional aspects and new agricultural strategy),
- ◆ Industry (IPR 1956; SSI – role & importance) and foreign trade.

Art Integration :

- ◆ Flow charts

- ◆ Case study

Unit 6 30.06.2023 to 15.07.2023 (13)

Topics : Government Budget

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

- ◆ Understand the concept of government budget
- ◆ Government budget - meaning, objectives and components.
- ◆ Classification of receipts - revenue receipts and capital receipts;
- ◆ Classification of expenditure—revenue expenditure and capital expenditure.
- ◆ Balanced, Surplus and Deficit Budget-measures of government deficit.

Art Integration :

- ◆ Current budget

- ◆ Flow charts

Unit 7 17.07.2023 to 28.07.2023 (10)**Topics** : Economic Reforms since 1991:**Learning Outcomes** : After going through this unit, the student would be able to understand :

- ◆ The concept of Economic Reforms since 1991.
- ◆ Features and appraisals of liberalisation, globalisation and privatisation (LPG policy)
- ◆ Concepts of demonetization and GST

Art Integration :

- ◆ Current data of LPG
- ◆ Flow charts

Unit 8 & Rev. 31.07.2023 to 11.08.2023 (11)**Topics** : Human Capital Formation**Learning Outcomes** : After going through this unit, the student would be able to understand the concept :

- ◆ How people become resource;
- ◆ Role of human capital in economic development;
- ◆ Growth of Education Sector in India

Art Integration :

- ◆ Case studies based on current data
- ◆ Flow charts

Unit 9 28.08.2023 to 16.09.2023 (14)**Topics** : Rural Development**Learning Outcomes** : After going through this unit, the student would be able to :

- ◆ Meaning of rural development
- ◆ Key issues - credit and marketing –
- ◆ role of cooperatives; agricultural
- ◆ diversification alternative farming
- ◆ organic farming

Unit 10 18.09.2023 to 30.09.2023 (10)**Topics** : Balance of Payments**Learning Outcomes** : After going through this unit, the student would be able to :

- ◆ Describe the concept of Balance of Payment

- ◆ Balance of payments account - meaning and components;
- ◆ Balance of payments –Surplus and Deficit
- ◆ Foreign exchange rate - meaning of fixed and flexible rates
- ◆ Managed floating. Determination of exchange rate in a free market,
- ◆ Merits and demerits of flexible and fixed exchange rate.
- ◆ Managed Floating exchange rate system

Art Integration :

- ◆ Current Data related to topic
- ◆ Derivations with diagrams
- ◆ Diagram Practice

Unit 11 03.10.2023 to 13.10.2023 (10)**Topics** : Employment

Sustainable Economic Development

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

- ◆ Understand the concept Employment
- ◆ Growth and changes in work force.
- ◆ participation rate in formal and informal sectors;
- ◆ problems and policies
- ◆ Meaning of sustainable economic development
- ◆ Effects of Economic Development on Resources and Environment,
- ◆ The concept of global warming

Art Integration : BSE questions**Unit 12 & Rev. 16.10.2023 to 31.10.2023 (10)****Topics** :

- ◆ Determination of Income and Employment
- ◆ Development Experience of India

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

- ◆ Understand the concept Aggregate demand and its components

- ◆ Propensity to consume and propensity to save (average and marginal).
- ◆ Short-run equilibrium output;
- ◆ Investment multiplier and its mechanism.
- ◆ Meaning of full employment and involuntary unemployment.
- ◆ Problems of excess demand and deficient demand measures to correct them - changes in government spending, taxes and money supply
- ◆ The concept of A comparison with neighbours India and Pakistan
- ◆ India and China
Issues: economic growth, population,
- ◆ Sectoral development and other Human Development Indicators

Art Integration :

- ◆ Numerical Practice
- ◆ Flow charts
- ◆ Case study of India, China and Pakistan

EXAMINATION SCHEDULE :**Periodic Asst-1 01.05.2023 to 08.05.2023****Topic** : National Income**Periodic Asst-2 15.07.2023 to 21.07.2023****Topic** : Money and Banking (Macro)
Indian Economic Development**Half Yearly Exams 14.08.2023 to 25.08.2023****Topic** : Unit-1, 2, 4, 6 and 7**Pre-Board-1 29.11.2023 to 08.12.2023****Topic** : Complete Syllabus**Pre-Board-2 27.12.2023 to 15.01.2024****Topic** : Complete Syllabus**GEOGRAPHY****Prescribed Books :**

1. **Fundamentals of Human Geography (NCERT)**

2. India-People and Economy (NCERT)**3. Practical 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
- ❖ Describe locations and correlate with Geographical Perspectives
- ❖ List/describe what students might see, hear, and smell at a glance.
- ❖ List/describe ways a place is linked with other places.
- ❖ Compare conditions and connections in one place to another.
- ❖ Describe and interpret the spatial pattern features on a thematic map.
- ❖ 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.

Book-1

Unit 1 **01.03.2023 to 31.03.2023** **(20)**

Topic : Ch-1 Human Geography
 Ch-2 The World Population

Practical : Data-It's sources and compilation

Learning outcomes :

Ch-1. (i) Students will acquainted with the

important branches of geography (ii) Students will be able to recall the link of human geography with the mother discipline i.e. Geography.

Ch-2. (i) Students will be able to know the number of men and women a country has, number of children are born each year, number of people die and the reasons of their death. (ii) They will know whether they live in villages or cities, their literacy rates, work they do.

Art Integration/Activities :

1. Group discussion on 'Naturalization of Humans' and 'Humanization of Nature'.
2. Interactive session on 'Factors influencing the distribution and density of population in the world.'
3. Map Activity: on the world map, locate the largest country in each continent in terms of area.

Unit 2 **01.04.2023 to 21.04.2023** **(13)**

Topic : Ch-3 Population Composition
 Ch-4 Human Development

Practical : Data-It's sources and compilation

Learning outcomes :

Ch-3. Students will learn about how people can be distinguished by their age, sex and their place of residence, occupation, education and life expectancy.

Ch-4. (i) Students will be able to differentiate growth & development.
(ii) They will be able to understand the concept of human development in relation to nations and communities.

Art Integration/Activities :

1. An interactive session will be held on 'what data is, its sources and compilation of data.'
2. A 5-minute role play to show how choices are limited due to lack of capability in areas of either income, education or health.

<p>Unit 3 24.04.2023 to 06.05.2023 (11) Topic : Ch-5 Primary Activities Ch-6 Secondary Activities Practical : Data Processing Learning outcomes : Ch-5. Students will become familiar with various primary activities and will be able to compare and differentiate them with regions they are practiced in. Ch-6. (i) Students will know about locating factors of industries. (ii) They will be able to classify manufacturing industries on the basis of raw material used, ownership, and size.</p> <p>Art Integration/Activities :</p> <ol style="list-style-type: none"> 1. Map Activity : On the world map, locate areas of nomadic herding, commercial livestock rearing, subsistence gathering, extensive commercial grain farming, mixed farming and Mediterranean farming. 2. Class discussion on 'bio-degradable Vs non-biodegradable and which kind of material is better to use and why ?' 	<p>Unit 5 22.05.2023 to 31.05.2023 (08) Topic : Ch-8 Transport and Communication Ch-9 International Trade Learning outcomes : Ch-8. (i) Students will be able to understand as to how transport provides the network of links and carriers through which trade takes place. (ii) They will be able to recall some notable transcontinental railways, inland waterways, pipelines and sea routes in the world. Ch-9. (i) Students will become familiar with history, aspects, basis and types of international trade (ii) They will know that WTO is the only international organization dealing with the global rules of trade between nations.</p> <p>Art Integration/Activities : Map Activity : On the world map, locate terminal stations of trans-Siberian, Canadian, Australian railways, Suez Canal, Panama Canal, Rhine waterway, St. Lawrence seaway, Major airports and seaport (listed in CBSE chapter wise list of map items),</p>	<p>2. Map Activity : On the world map, Locate mega cities-Tokyo, Delhi, Shanghai, Mumbai, Saopaulo</p> <p>Book-2 Unit 7 17.07.2023 to 28.07.2023 (10) Topic : Ch-1 Population Ch-2 Migration Ch-3 Human Development Learning outcomes : Ch-1. Students will get to know the patterns of distribution, density, growth and composition of India's population. Ch-2. : Students will be able to explain the term migration, its types, causes and consequences. Ch-3. : Students will learn about human development in India and indicators of a healthy life, social empowerment and economic attainment.</p> <p>Art Integration/Activities :</p> <ol style="list-style-type: none"> 1. Map Activity (As per the items listed in the CBSE map list) 2. Class discussion on 'How Development for India is a mixed bag of opportunities as well as neglect and deprivations'.
<p>Unit 4 08.05.2023 to 19.05.2023 (10) Topic : Ch-7 Tertiary and Quaternary Activities Practical : Data Processing Learning outcomes : Ch-7. (i) Students will get to know how tertiary activities are related to the service sector and manpower is an important component of the service sector. (ii) They will be able to differentiate tertiary, secondary, quaternary and quinary activities with examples of each.</p> <p>Art Integration/Activities :</p> <ul style="list-style-type: none"> • Practical work (choropleth map, Dot map, Bar diagram, linear graph, composite bar diagram and pie-chart) 	<p>Unit 6 30.06.2023 to 15.07.2023 (13) Topic : Ch-10 Human Settlements Practical : Geographical representation of data Learning outcomes : Ch-10. (i) Students will be able to classify rural and urban settlements. (ii) They will be able to recall the factors affecting the rural settlements, their problems and patterns. (iii) They will learn about the problems of human settlements in developing countries.</p> <p>Art Integration/Activities :</p> <ol style="list-style-type: none"> 1. An interactive session will be held on 'Healthy City' in which suggestions given by WHO will be discussed. 	<p>Unit 8 & Rev. 31.07.2023 to 11.08.2023 (11) Topic : Ch-4 Human Settlement Ch-5 Land, Resources and Agriculture Practical : Field Survey Learning outcomes : Ch-4. Students will learn about types of rural settlement, evolution of towns and urbanization in India. Ch-5. (i) Students will be able to recall the land use categories in India, common property resources, cropping seasons and crops grown and problems of Indian agriculture. (ii) They will learn the strategies for agricultural</p>

development after independence in India.

Art Integration/Activities :

1. Map Activity (As per the items listed in the CBSE list of maps in course)
2. Discussion on making of questionnaire on 'Poverty' as a topic for field survey and precautions to be taken during interview of people in the field.

Unit 9 28.08.2023 to 16.09.2023 (14)

Topic : Ch-6 Water Resources
Ch-7 Mineral and Energy Resources

Practical : Field Survey

Learning outcomes :

Ch-6. Students will learn about water resources in India and its demand and utilization. (ii) They will become familiar with emerging water problems in India and its management and conservation techniques.

Ch-7. : Students will become familiar with the availability of various types of mineral and energy resources in India. (ii) They will be able to suggest some ways to conserve mineral resources for sustainable development.

Art Integration/Activities :

1. Class discussion on 'water crisis & ways and means of water conservation'
2. Map Activity (As per the items listed in the CBSE list of maps in course)

Unit 10 18.09.2023 to 30.09.2023 (10)

Topic : Ch-8 Manufacturing Industries
Ch-9 Planning and sustainable Development

Learning outcomes :

Ch-8. : Students will be able to recall the industrial regions and the factors influencing the location of industries in India. (ii) They will be able to classify the manufacturing industries

on the basis of raw material used, ownership, and size.

Ch-9. Students will become familiar with the term 'Planning' and 'Sustainable Development' in Indian context with help of case studies on Indira Gandhi Canal Command Area and Integrated Tribal Development Project in Bharmaur Region

Art Integration/Activities :

1. Map Activity (As per the items listed in the CBSE list of maps in course)
2. Interactive session on 'Role of Policy of globalization liberalization and privatization in the development of industries in India'.

Unit 11 03.10.2023 to 13.10.2023 (10)

Topic : Ch-10 Transport and Communication
Ch-11 International Trade

Practical : Use of Computer in Data Processing

Learning outcomes :

Ch-10. In this chapter, students will learn about the main means of transportation in India and will be able to highlight their importance in the economic development of our country.

Ch-11. (i) Students will learn about changing patterns of the composition of India's import and direction of trade.

(ii) They will learn about the role of sea ports as gateways of India's international trade.

Art Integration/Activities : Visiting computer lab to learn as to how computer is used in data processing

Unit 12 & Rev. 16.10.2023 to 31.10.2023 (10)

Topic : Ch-12 Geographical Perspective on Selected Issues and Problems

Learning outcomes :

Ch-12. (i) In this chapter, students will learn about

types and sources of pollution.

(ii) They will also learn problems of slums, land degradation and will be able to suggest measures for reduction of land degradation.

EXAMINATION SCHEDULE :

Periodic Asst-1 01.05.2023 to 08.05.2023

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

Periodic Asst-2 15.07.2023 to 21.07.2023

Topic : Book-1 : Ch-6, 7, 8, 9, 10

Half Yearly Exams 14.08.2023 to 25.08.2023

Topic : Book-1 Ch-1 to 10

Pre-Board-1 29.11.2023 to 08.12.2023

Topic : Unit-1 to 12

Pre-Board-2 27.12.2023 to 15.01.2024

Topic : Unit-1 to 12

POLITICAL SCIENCE (028)

Prescribed Book :

1. Contemporary World Politics (NCERT)
2. Politics in India Since Independence (NCERT)

Rationale :

At the senior secondary level students who opt 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 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 compare these to other constitutions in the world.
- ❖ 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.

Book-1 : Contemporary World Politics

Unit 1 01.03.2023 to 31.03.2023 (20)

Topic : Ch-1 The End of Bipolarity
Ch-2 New Centres of Power

Learning outcomes :

Ch-1 : Students will be able to know about Disintegration of Soviet Union, Unipolar World, Middle East Crisis-Afghanistan, Gulf War, Democratic Politics and Democratization- CIS and the 21st Century (Arab Spring)

Ch-2 : Students will be able to know Organizations: European Union, ASEAN, SAARC, BRICS. Nations : Russia, China, Israel, India, Japan and South Korea.

Art integration :

1. Group discussion on 'US and USSR' as super power after second world war
2. Interactive session on 'EU and ASEAN' as new Centres of Powers.

Topic : Ch-3 Contemporary South Asia
Ch-4 United Nations and its Organizations

Learning outcomes :

Ch-3 : Students will learn about Conflicts and efforts for Peace Democratization in South Asia: Pakistan, Nepal, Bangladesh, Sri Lanka, Maldives.

Ch-4 : Students will learn about Principle Organs, Key Agencies: UNESCO, UNICEF, WHO, ILO, Security Council and the Need for its Expansion.

Art integration :

1. Prepare a report on Indo-Pakrelation
2. Prepare a report on the agencies of UNO

Unit 2 01.04.2023 to 21.04.2023 (13)

Topic : Ch-3 Contemporary South Asia
Ch-4 United Nations and its Organizations

Learning outcomes :

Ch-3 : Students will learn about conflicts and efforts for Peace Democratization in South Asia: Pakistan, Nepal, Bangladesh, Sri Lanka, Maldives

Ch-4 : Students will learn about Principal organs, Key Agencies: UNESCO, UNICEF, WHO, ILO, Security Council and the Need for its Expansion.

Art Integration : Prepare a PPT on UNO

Unit 3 24.04.2023 to 06.05.2023 (11)

Topic : Ch-5 Security in Contemporary World

Learning outcomes :

1. Students will get to know Security: Meaning and Type; Terrorism.
2. They will be able to differentiate between traditional and non-traditional threats.

Art Integration : Picture based questions

Unit 4 08.05.2023 to 19.05.2023 (10)

Topic : Ch-5 Security in Contemporary World

Learning outcomes :

1. Students will get to know Security: Meaning and Type; Terrorism.
2. They will be able to differentiate between traditional and non-traditional threats.

Art Integration : Debate on Traditional and Non-Traditional threats on security

Unit 5 22.05.2023 to 31.05.2023 (08)

Topic : Ch-6 Environment and Natural Resources

Learning outcomes : Students will become familiar with Environmental Movements, Global warming and Climate change, Conservation of Natural Resources.

Unit 6 30.06.2023 to 15.07.2023 (13)

Topic : Ch-7 Globalization

Learning outcomes : Students will get to know Globalization: Meaning, Manifestation and Debates.

Art Integration : Collect information regarding MNCS working in India

Topic : Ch. 1 Nation building

Unit 7 17.07.2023 to 28.07.2023 (10)

Topic : Ch-7 Globalization

Learning outcomes : Students will get to know Globalization: Meaning, Manifestation and Debates.

HOME SCIENCE

Book-II : India Since Independence**Unit 8 & Rev. 31.07.2023 to 11.08.2023 (11)**

Topic : Ch-1 Challenges of Nation Building
Ch-2 Planned Development

Learning outcomes :

Ch-1 : Students will be able to know about Nation and Nation Building. Sardar Vallabh Bhai Patel and Integration of States. Nehru's approach to nation-building; Legacy of partition: challenge of 'refugee' Resettlement, the Kashmir problem. Political conflicts over language. Linguistic Organization of States.

Ch-2 : (i) Students will become familiar with changing nature of India's Economic Development Planning Commission and Five Year Plans. National Development Council, NITI Aayog.

Art Integration :

1. Class discussion on 'participation'
2. Map activity (As per the items listed in the CBSE list of maps in course)

Unit 9 28.08.2023 to 16.09.2023 (14)

Topic : Ch-3 India's Foreign Policy

Learning outcomes : Students will become familiar with Principles of Foreign Policy; India's Changing relations with other Nations: US, Russia, China, Israel; India's relations with its Neighbours: Pakistan, Bangladesh, Bhutan, Nepal, Sri Lanka and Myanmar; India's Nuclear programme.

Art Integration : Discussion on Indo-China relation

Unit 10 18.09.2023 to 30.09.2023 (10)

Topic : Ch-4 Parties and Party System in India
Ch-5 Democratic Resurgence

Learning outcomes :

Ch-4 : In this chapter, students will learn about the

One Party Dominance, Bi-Party System, Multi Party Coalition System.

Ch-5 : Students will be able to know about Jaya Prakash Narayan and Total Revolution, Ram Manohar Lohia and Socialism, Pandit Deendayal Upadhyaya and Integral Humanism, National Emergency, Democratic Upsurges-Participation of the Adults, Backwards and Youth.

Art Integration : Prepare a PPT on Emergency held in 1975

Unit 11 03.10.2023 to 13.10.2023 (10)

Topic : Ch-6 Regional Aspirations

Learning outcomes : Students will learn about rise of regional parties. Punjab crisis. The Kashmir issue, Movements for Autonomy

Unit 12 & Rev. 16.10.2023 to 31.10.2023 (10)

Topic : Ch-7 Indian Politics : Recent Trends and Development

Learning outcomes : In this chapter, students will learn about Era of Coalitions, National front, United front, United progressive alliance (UPA)-1 & II, National Democratic alliance (NDA) I, II, III & IV, Issues of development and Governance.

Art Integration : Prepare a report on the rule of BJP

EXAMINATION SCHEDULE :

Periodic Asst-1 01.05.2023 to 08.05.2023

Topic : Book-1 Ch-1 & 2

Periodic Asst-2 15.07.2023 to 21.07.2023

Topic : Book-1 Ch-3 & 4

Half Yearly Exams 14.08.2023 to 25.08.2023

Topic : Book-1 Ch-1 to 6

Pre-Board-1 29.11.2023 to 08.12.2023

Topic : As per Board

Pre-Board-2 27.12.2023 to 15.01.2024

Topic : As per Board

Prescribed Book :**Objectives :**

The syllabus at Senior Secondary level develops an understanding in the learners that the knowledge and skills acquired through Home Science facilitates development of self, family and community.

It endeavors to -

- ◆ Acquaint learners with the basics of human development with specific reference to self and child.
- ◆ Help to develop skills of judicious management of various resources.
- ◆ Enable learners to become alert and aware consumers.
- ◆ Impart knowledge of nutrition and lifestyles to enable prevention and management of diseases.
- ◆ Inculcate healthy food habits.
- ◆ Help to develop understanding of textiles for selection and care of clothes.
- ◆ Develop skills of communication to assist in advocacy and dissemination of knowledge to community.

Unit 1 01.03.2023 to 31.03.2023 (20)

Topic : Ch : Work, Livelihood and Career
Ch : Early Childhood Care and Education

Learning outcomes : students will be able to understand Traditional occupation in India

- Work, Age and Gender
- Attitudes and approaches to work
- Ergonomics
- Entrepreneurship

Art integration : Collage on different Traditional occupation in India.

Unit 2 01.04.2023 to 21.04.2023 (13)
Topic : Ch-2 Clinical Nutrition and Dietetics
Learning outcomes : students will be able to understand

- Clinical Nutrition
- Significance
- Types of diets:
- Prevention of chronic diseases
- Preparing for a career.

Art integration : Skit on identity formation

Unit 3 24.04.2023 to 06.05.2023 (11)
Topic : Ch-3 Public Nutrition and Health
Learning outcomes : students will be able to understand

- Nutritional Problems of India
- Protein energy
- malnutrition
- Micronutrient deficiencies
- - IDA
- - VAD
- - IDD

Art integration : Culinary skills

Unit 4 08.05.2023 to 19.05.2023 (10)
Topic : Ch : Food Processing and Technology
Learning outcomes : students will be able to understand

- Development of food processing and technology
- Importance of Food processing and Preservation
- Classification of food on the basis of extent and type of processing.

Art integration : Design, prepare and evaluate a processed food product.

Unit 5 22.05.2023 to 31.05.2023 (08)
Topic : Ch Food Quality and Food Safety
Learning outcomes : students will be able to understand

- Food safety
- Food quality
- Food standards regulation in India-FSSA (2006)

Art integration : Poster on Good manufacturing practices (GMP)

Unit 6 30.06.2023 to 15.07.2023 (13)
Topic : Ch Management of Support Services, Institutions and Programmes for Children, Youth and Elderly
Learning outcomes : students will be able to understand

- Institutions, programmes and initiatives for children
- Youth programmes in India
- Programmes for the elderly

Art integration : Preparation and use of any teaching aid to communicate socially relevant messages for children/adolescents/adults in the community.

Unit 7 17.07.2023 to 28.07.2023 (10)
Topic : Ch : Design for Fabric and Apparel
Learning outcomes : students will be able to understand

- Elements of design
- Principles of design
- Harmony
- Preparing for career

Art integration : Preparation of any one article using applied textile design techniques; tie and dye/block printing.

Unit 8 & Rev. 31.07.2023 to 11.08.2023 (11)
Topic : Ch : Fashion Design and Merchandising
Learning outcomes : To understand

- fashion terminology
- Fashion evolution

Unit 9 28.08.2023 to 16.09.2023 (14)
Topic : Ch : Care and Maintenance of Fabrics in Institution
Learning outcomes : To understand the basic concepts

- Washing equipment
- Drying equipment
- Ironing/pressing equipment

Art integration : Remove different types of stains from white cotton cloth-Ball pen, curry, grease, ink, lipstick, tea and coffee.

Unit 10 18.09.2023 to 30.09.2023 (10)
Topic : Ch : Hospitality Management
Learning outcomes : students will be able to understand departments involved in hospitality management of an organization
Art integration : Evaluate any one advertisement for any job position.

Unit 11 03.10.2023 to 13.10.2023 (10)
Topic : Ch : Consumer Education and Protection
Learning outcomes : students will be able to understand

- Significance of consumer education and protection
- Consumer forum
- Consumer footfalls
- Consumer problems
- Consumer rights
- Standardized marks.

Art integration : Develop a leaflet/pamphlet for consumer education and protection on any one of the following : Consumer Protection act

Unit 12 & Rev. 16.10.2023 to 31.10.2023 (10)
Topic : Ch : Development Communication and Journalism
Learning outcomes : students will be able to understand

- Development journalism
- Development communication
- Methods of communication
- Campaign
- Radio and Television
- Print Media
- Information and communication Technologies

EXAMINATION SCHEDULE :**Periodic Asst-1 01.05.2023 to 08.05.2023****Topic :** Ch-1 and 2**Periodic Asst-2 15.07.2023 to 21.07.2023****Topic :** Ch-1 to 6**Half Yearly Exams 14.08.2023 to 25.08.2023****Topic :** Unit-1, 2 and 3**Pre-Board-1 29.11.2023 to 08.12.2023****Topic :** Entire Syllabus**Pre-Board-2 27.12.2023 to 15.01.2024****Topic :** Entire Syllabus**PSYCHOLOGY (037)**

Books recommended : NCERT Class XII and Supplementary reading material by CBSE
General Objectives :

- ❖ Learn about the limitations of psychological enquiry and ethical considerations.
- ❖ Understand the difference between intelligence and aptitude.
- ❖ Describe some techniques for personality assessment.
- ❖ Describe the major psychological disorders.
- ❖ Know how people with mental disorders can be rehabilitated.
- ❖ Understand what are attitudes, how they are formed and changed.
- ❖ Understand the concept of pro-social behaviour and factors affecting it.
- ❖ Understand the nature of intergroup conflict

and examine conflict resolution strategies.

Unit 1 01.03.2023 to 31.03.2023 (20)**Practical :** Introduction to DBDA (Practical 1)**Theory :** What is meant by Variations in Psychological Attributes ?
Assessment of Psychological Attributes.**Unit 2 01.04.2023 to 21.04.2023 (13)****Practical :** Conduction, Scoring and Interpretation of DBDA**Theory :** Theories of Intelligence Individual Differences in Intelligence**Unit 3 24.04.2023 to 06.05.2023 (11)****Practical :** Introduction to RSPM (Practical 2)
Introduction, Scoring and Interpretation of RSPM**Theory :** Culture and Intelligence.
Emotional Intelligence.
Special abilities and creativity.**Unit 4 08.05.2023 to 19.05.2023 (10)****Practical :** Introduction to MPI (Practical 3)**Theory :** Introduction to self and personality.
Concept of self and personality.
Approaches to the study of personality**Unit 5 22.05.2023 to 31.05.2023 (08)****Practical :** Conduction, Scoring and Interpretation of MPI**Theory :**

- Approaches to the study of personality
- Assessment of personality.

Unit 6 30.06.2023 to 15.07.2023 (13)**Practical :** Introduction to GAS, Conduction, Scoring and Interpretation of GAS**Theory :**

- Nature. Types and sources of stress

- Effects a stress
- Coping with stress
- Promoting positive health.

Unit 7 17.07.2023 to 28.07.2023 (10)**Theory :**

- Concept of abnormality and Psychological disorders.
- Classification of Psychological disorders.

Unit 8 & Rev. 31.07.2023 to 11.08.2023 (11)**Theory :** Factors underlying Abnormal behaviour.
Major Psychological disorders**Unit 9 28.08.2023 to 16.09.2023 (14)****Theory :**

- Nature and process of Psychotherapy
- Types of therapies

Unit 10 18.09.2023 to 30.09.2023 (10)**Theory :**

- Types of therapies.
- Rehabilitaion of the mentally ill.

Unit 11 03.10.2023 to 13.10.2023 (10)**Practical :** Introduction to SAS, Conduction, Scoring and Interpretation. (Practical 4)**Theory :**

- Social behaviour.
- Nature and components of attitude
- Attitude formation
- Prejudice and discrimination
- Social cognition
- Stereotype and schemas
- Behaviour formation and pro-social behaviour

Unit 12 & Rev. 16.10.2023 to 31.10.2023 (10)**Practical :** Practical-5**Theory :**

- Nature and formation of group
- Types of group
- Influence of group

- Confirmity, compliance and obedience
- Cooperation and competition
- Social identity and intergroup conflicts.

MASS MEDIA STUDIES (835)

Prescribed Book : CBSE Resource Material

Unit 1 01.03.2023 to 31.03.2023 (20)

Topic : Ch-1 Advertisement Concept & Process (U-1)

Learning Outcomes :

1. The learners will get to understand the concept and evolution of advertising.
2. Focus on aspects related to the benefits of advertising such as their career in advertising etc.
3. Understand the process of advertising and special purpose of advertisement.

Integration of Art :

- Flow chart
- Group discussion

Unit 2 01.04.2023 to 21.04.2023 (13)

Topic : Functions of Advertising (U-1)

Learning Outcomes :

1. Demonstrate and understanding of the overall role of advertisement in the business world.
2. Develop understanding of advertising strategies and budget

Art Integration :

- Mind map
- Group discussion

Unit 3 24.04.2023 to 06.05.2023 (11)

Topic : Types of Advertising (U-1)

Learning Outcomes :

1. Identify and understand the various advertising media
2. Understand the factors determining advertising media

Art Integration :

- Flow chart
- Mind Map

Unit 4 08.05.2023 to 19.05.2023 (10)

Topic : Forms of Advertising (U-1)

Learning Outcomes :

1. Analyse the format and structure of advertising
2. Able to differentiate between information advertising and telling advertising between the ethical, economics legal, cultural and historical dimensions of advertisement in a global society
3. Students will get familiar with difference type of Advertising
4. Learn to evaluate the best suited form of advertise independent upon several factors

Art Integration : Mind Map

Unit 5 22.05.2023 to 31.05.2023 (08)

Topic : Employability Skills

Learning Outcomes :

1. Communication skills
2. Students will learn how to communicate and business language
3. Learn the effective way of communication like how ethically one can converse
4. Will learn about the importance of active listening at workplace
5. Will be able to demonstrate the basic official writing skills

Self management skills

6. Students will be able to describe the factors influencing self motivation
7. Will be able to describe the basic personality traits
8. Learn how personality influence others

Art Integration :

1. Group discussion

2. E-mail writing
3. Game (Poster on active listening)
4. Group discussion on sources of motivation
5. Data in form of table or questionnaire

Unit 6 30.06.2023 to 15.07.2023 (13)

Topic : Film (U-2)

Learning Outcomes :

1. Students will gain basic understanding of film
2. Develop and understanding of film language and terminology
3. Students will be able to know the articulation of a film content from and structure

Art Integration :

- Group discussion
- Case study
- Mind map
- Flow chart

Unit 7 17.07.2023 to 28.07.2023 (10)

Topic : TV (U-2)

Learning Outcomes :

1. Develop theoretical understanding of reproduction and post production stage of program production
2. Students will be able to know the elements of required for TV show
3. Analyse the various generals of TV production such as long form drama, talk shows, unscripted TV etc

Art Integration :

- Group discussion
- Case study
- Mind map
- Flow chart

Unit 8 & Rev. 31.07.2023 to 11.08.2023 (11)

Topic : Print (U-2)

Learning Outcomes :

1. Students will be able to differentiate between different types of print media
2. Know the history of newspaper in India

- Learn about the five main departments of newspaper and the department to work of the newspaper organisation
- Understand about the main source of research for daily newspaper

Art Integration :

- Group discussion
- Mind map
- Flow chart

Unit 9 28.08.2023 to 16.09.2023 (14)

Topic : Radio and Internet (U-2)

Learning Outcomes :

- Students will understand overall structure of commercial radio
- Will get to know about the genres of radio shows
- Define how radio shows are used today
- Will develop the understanding about the basic elements of radio production such as sound quality, special sound, accents etc.
- Will develop the basic understanding about the principles of radio shows
- To know about the importance of web pages
- Learn about the website designing and collaboration etc
- To know various processes and steps involved into eating the web pages
- Student will learn about and the use of Technology

Art Integration :

- Mind map
- Flow chart

Unit 10 18.09.2023 to 30.09.2023 (10)

Topic : New Media (Convergence and the New Possibilities of Communication) (U-3)
Creative Contribution of Film media-Film and TV (U-4)

Learning Outcomes :

- Students will learn about the recently develop end-to-end training procedures offer new ways to jointly optimize the components of a communication system.
- Students will learn the emerging application fields of communication technology, e.g. smart cities or Internet of things, machine learning methods are of central importance.
- Students will be able to learn about the key contribution of sveral people and the process of film making
- Will have an understanding about the role of writer director, producer cinematographer actor choreographer, editor and director, music composer etc.

TV

- Students will develop the knowledge about the production process of TV
- Learn why TV is an instant medium is an instant medium
- Will learn about the contributors at various stages in process of making TV shows
- Genres of TV shows
- Role of contributors

Art Integration :

- Group discussion
- Mind map
- Flow chart
- Case study/Questionnaire

Unit 11 03.10.2023 to 13.10.2023 (10)

Topic : Print, Radio and Internet (U-4)

Learning Outcomes :

Print media

- Students will learn about the main activities of the editorial team
- Will develop the understanding about the role of reporters and editors
- Would be able to differentiate between headlines news report, features editorials

- Will develop the knowledge about the creative team of a newspaper department and their responsibilities

Radio

- Know about radio channels and station manager
- Will learn about the Genre of radio
- Develop insight about the work of radio jockeys
- Will be able to demonstrate their knowledge about how audio Technology has changed

Internet

- Will be able to know the role of conceptualizer, writer, editor, designer in website making

Art Integration :

- Poster or Drawing
- Group discussion
- Mind map
- Flow chart
- case study

Unit 12 & Rev. 16.10.2023 to 31.10.2023 (10)

Topic : Employability Skills

Learning Outcomes :

Information and Communication Technology

- 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 etc
- How to work on Power Point such as to make a PPT using ruler bar for making presentations

Entrepreneur development skills

- Understand about the entrepreneurship and the barriers to become an entrepreneurial
- Will be able to demonstrate the behavioral and entrepreneurial competencies
- Green skills - Understand the concept of green skills

5. How important is green skills in different sectors
6. Will learn about the role of green jobs in protecting ecosystem

Art Integration :

1. PPT
2. Excel Worksheet
3. Questionnaire
4. Poster

HINDUSTANI MUSIC-VOCAL**Prescribed Book :**

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	01.03.2023 to 31.03.2023	(20)
Topic	: Raga Bhairav & Definitions : Alankar, Kan, Meend, Alap, Tan	
Unit 2	01.04.2023 to 21.04.2023	(13)
Topic	: Raag Bhairav : Chhota Khayal & Alap, Tan	
Unit 3	24.04.2023 to 06.05.2023	(11)
Topic	: Taal : Dhamar & Jhaptala	
Unit 4	08.05.2023 to 19.05.2023	(10)
Topic	: Raga Bhairav-Bada Khyal & Ustad Faiyaz Khan	
Unit 5	22.05.2023 to 31.05.2023	(08)
Topic	: Raag Malkauns Description	
Unit 6	30.06.2023 to 15.07.2023	(13)
Topic	: Raag Malkauns - Chhota Khayal & Sangeet Ratnakar	
Unit 7	17.07.2023 to 28.07.2023	(10)
Topic	: Raga Malkauns-Dhamar &	

	Tal Rupak	
Unit 8 & Rev.	31.07.2023 to 11.08.2023	(11)
Topic	: Raga Bhairav - Tarana, Sangeet Parijat, Tanpura-Parts & Tuning	
Unit 9	28.08.2023 to 16.09.2023	(14)
Topic	: Musicians : Pt. Krishna Rao Shankar Pandit & Ustad Bade Ghulam Ali Khan	
Unit 10	18.09.2023 to 30.09.2023	(10)
Topic	: Raag Bhageshri - Chhota Khyal and Alap, Tan	
Unit 11	03.10.2023 to 13.10.2023	(10)
Topic	: Time theory of Ragas	
Unit 12 & Rev.	16.10.2023 to 31.10.2023	(10)
Topic	: Definitions : Khatka, Murki, Gamak, Grama, Murchhana	

EXAMINATION SCHEDULE :

Periodic Asst.-1	09.05.2022 to 21.05.2022
Topic	: Unit-1, 2 and 3
Periodic Asst.-2	25.07.2022 to 30.07.2022
Topic	: Unit-4, 5 and 6
Half Yearly Exams	: 22.08.2022 to 03.09.2022
Topic	: Unit-1 to 8
Pre-Board-1	21.11.2022 to 03.12.2022
Topic	: Entire Syllabus
Pre-Board-2	26.12.2022 to 16.01.2023
Topic	: Entire Syllabus

PHYSICAL EDUCATION**Prescribed Book :**

Note : Subject to minor changes due to unavoidable circumstances

Unit 1	01.03.2023 to 31.03.2023	(20)
Topic	: Management of sporting events	
Unit 2	01.04.2023 to 21.04.2023	(13)
Topic	: Yoga and preventive measure for lifestyle disease	

Unit 3	24.04.2023 to 06.05.2023	(11)
Topic	: Children and women in sports	
Unit 4	08.05.2023 to 19.05.2023	(10)
Topic	: Revision	
Unit 5	22.05.2023 to 31.05.2023	(08)
Topic	: Sports and nutrition	
Unit 6	30.06.2023 to 15.07.2023	(13)
Topic	: Physical education and sports for CWSN (children with special needs)	
Unit 7	17.07.2023 to 28.07.2023	(10)
Topic	: Test and measurement in sports	
Unit 8 & Rev.	31.07.2023 to 11.08.2023	(11)
Topic	: Bio mechanic and sports and physiology and injuries in sports	
Unit 9	28.08.2023 to 16.09.2023	(14)
Topic	: Psychology and sports	
Unit 10	18.09.2023 to 30.09.2023	(10)
Topic	: Training in sports	
Unit 11	03.10.2023 to 13.10.2023	(10)
Topic	: Revision	
Unit 12 & Rev.	16.10.2023 to 31.10.2023	(10)
Topic	: Revision for Annual Exam	

FINANCIAL MARKETS MANAGEMENT**Prescribed Book :**

Financial Markets Management

Teaching Objectives :

The main objectives of this syllabus are :

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 01.03.2023 to 31.03.2023 (20)

Topic : Ch-1 : Introduction to Indian Securities Market and Trading Membership

Employability Skills : Ch-1 Communication Skills

Learning Outcomes : To make learner aware about the Indian securities Market

Art Integration :

Project – Indian securities Market
NLT software

Unit 2 01.04.2023 to 21.04.2023 (13)

Topic : Ch-1 : Introduction to Indian Securities Market and Trading Membership

Employability Skills : Ch-1 Communication Skills

Learning Outcomes : To make learner aware about the Indian securities Market

Art Integration : NLT software

Unit 3 24.04.2023 to 06.05.2023 (11)

Topic : Ch-2 : Trading

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

Learning Outcomes : To make learner aware about the techniques of trading in the securities market

Art Integration : NLT software

Unit 4 08.05.2023 to 19.05.2023 (10)

Topic : Ch-2 : Trading

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

Learning Outcomes : To make learner aware about the techniques of trading in the securities market

Art Integration :

Project – Trading

Using graphs

Unit 5 22.05.2023 to 31.05.2023 (08)

Topic : Ch-3 : Clearing, Settlement and Legal Framework

Learning Outcomes : To make learner aware about the legal framework of clearing corporation

Art Integration : NLT software

Unit 6 30.06.2023 to 15.07.2023 (13)

Topic : Ch-3 : Clearing, Settlement and Legal Framework

Employability Skills : Ch-3 Information and Communication Technology Skills

Learning Outcomes : To make learner aware about the legal framework of clearing corporation

Art Integration : NLT software

Unit 7 17.07.2023 to 28.07.2023 (10)

Topic : Ch-4 : Introduction to Derivatives. Mutual Funds Products and Features

Employability Skills : Ch-4 Entrepreneurial Skills

Learning Outcomes : To make learner aware about the meaning of Derivatives

Art Integration : Project - Derivatives

Unit 8 & Rev. 31.07.2023 to 11.08.2023 (11)

Topic : Ch-4 : Introduction to Derivatives. Mutual Funds Products and Features

Employability Skills : Ch-4 Entrepreneurial Skills

Learning Outcomes : To make learner aware about the meaning of Derivatives

Art Integration : Project - Derivatives

Unit 9 28.08.2023 to 16.09.2023 (14)

Topic : Ch-5: Introduction to Futures and Options

Employability Skills : C-4 Entrepreneurial Skills

Learning Outcomes : To make learner aware about the meaning of Futures and Options

Art Integration : Project – Futures and Options

Unit 10 18.09.2023 to 30.09.2023 (10)

Topic : Revision

Unit 11 03.10.2023 to 13.10.2023 (10)

Topic : Revision

Learning Outcomes : To make learner aware about the meaning of Futures and Options

Art Integration : NLT software

Unit 12 & Rev. 16.10.2023 to 31.10.2023 (10)

Topic : Revision

EXAMINATION SCHEDULE :

Periodic Asst-1 01.05.2023 to 08.05.2023

Topic : Ch 1, 2

Periodic Asst-2 15.07.2023 to 21.07.2023

Topic : Ch 3, 4

Half Yearly Exams 14.08.2023 to 25.08.2023

Topic :

Pre-Board-1 29.11.2023 to 08.12.2023

Topic : Ch-1 to 6

Pre-Board-2 27.12.2023 to 15.01.2024

Topic : Ch-1 to 6