



CBSE Aff. No.: 1030842

Medi-Caps International School

MIS DIGEST **(PEDAGOGICAL PLAN)**

SESSION : 2020-21

CLASS - X



Dear Medi-Captains,

Learning is a process that continues throughout our life. It is not a process to meet an end, as there is no end to learning. Systematic learning is a key to success in life as a famous saying goes 'Failing to plan is a planning to fail' and we want you to succeed on every front. Hence this booklet has been designed in order to facilitate your planning.

MIS Digest has been prepared to give you a quick glance of the syllabus and information of the subject in brevity. We expect you to use it to the maximum in order to plan your learning. It will help you in decision making process by giving you insights of academic content so that you can learn in a systematic and planned manner. We stand always by your side to facilitate in any way we can do so.

Happy Learning!

Regards,

Renu Gurnani
Principal

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ENGLISH			
Name of Books: Literature Reader, Work Book, Main Course Book and Novel: Story Of My Life			
PT – I	HALF YEARLY	PRE- BOARD – I	PRE-BOARD – II
First Flight Ch – 1. A Letter to God Ch – 2. Nelson Mandela: Long Walk to Freedom Ch – 3. Two stories about Flying Ch – 4. From the Diary of Anne Frank Ch – 7. Glimpses of India Po – 1 Dust of Snow Po – 2 Fire and Ice Po – 3 A Tiger in the Zoo Po – 4 How to Tell Wild Animals	First Flight Ch – 5. The Hundred Dresses-I & II Po- 5. The Ball Poem Po-6. Amanda! Po-7. The Tale of Custard the Dragon Po-8. Trees	First Flight Ch – 8. Mijbil the Otter Ch – 9. Madam Rides the Bus Ch – 10. The Sermon at Benares Ch – 11 The Proposal Po – 9 Animals Po – 10. Fog Po – 11. For Anne Gregory	First Flight Whole syllabus
Footprints Without Feet Ch – 1. A Triumph of Surgery Ch – 2. The Thief's Story Ch – 3. The Midnight Visitor Ch – 4. A Question of Trust	Footprints Without Feet Ch – 6. The Making of a Scientist Ch – 7. The Necklace	Footprints Without Feet Ch – 8. The Hack Driver Ch – 9. Bholi Ch – 10. The Book That Saved the Earth	Footprints Without Feet Complete syllabus

Ch – 5. Footprints Without Feet			
Grammar 1. Tenses 2. Determiners 3. Reporting 4. Non-Finites	Grammar 1. Voice 2. Subject-Verb concord	Grammar 1. Clauses 2. Prepositions	Grammar Complete Syllabus
Writing Skills 1. Story Writing 2. Letter Writing Business Letters Letters to the Editor	Writing Skills 1. Article Writing	Writing Skills 1. Diary Writing	Writing Skills 1. Whole syllabus
Reading Skills Unseen Passage	Reading Skills Unseen Passage + Entire Syllabus of PT I	Reading Skills Unseen Passage	Reading Skills Unseen Passage + Complete Syllabus
HINDI			
NAME OF BOOK: स्पर्श X – (NCERT)			
PT-1	HALF YEARLY	PRE- BOARD -I	PRE-BOARD - II
पद्य पाठ 1 कबीर (साखी)	पद्य पाठ 4 मनुष्यता	पद्य पाठ 7 तोप	Complete Syllabus

पाठ 2 मीरा (पद) पाठ 3 बिहारी (दोहे) गद्य पाठ 1 बड़े भाई साहब पाठ 2 डायरी का एक पन्ना पाठ 3 ततारा वामीरो कथा पाठ 6 अब कहाँ दूसरों के दुःख में दुखी होने वाले	पाठ 5 पर्वत प्रदेश में पावस गद्य पाठ 7 पतझर में टूटी पत्तियाँ पाठ 8 कारतूस + Entire Syllabus of PT-I	पाठ 8 कर चले हम फ़िदा पाठ 9 आत्मत्राण + Complete Syllabus	
NAME OF BOOK: संचयनX - (NCERT)			
पाठ 1 हरिहर काका	पाठ 2 सपनों के से दिन + Entire Syllabus of PT-I	पाठ 3 टोपी शुक्ला + Complete Syllabus	Complete Syllabus
NAME OF BOOK: हिंदी व्याकरण- कोर्स ब (FRANK PUBLICATION)			
पाठ 1 अपठित गद्यांश व्याकरण पाठ 3 शब्द और पद में अंतर पाठ 4 रचना के आधार पर	व्याकरण पाठ 7 मुहावरे	+Complete Syllabus	Complete Syllabus

वाक्य रूपांतरण पाठ 5 समास पाठ 6 अशुद्धि शोधन			
रचनात्मक लेखन 8 अनुच्छेद लेखन 9 औपचारिक पत्र 10 सूचना लेखन 11. संवाद लेखन	रचनात्मक लेखन पाठ 12 विज्ञापन लेखन + Entire Syllabus of PT-I		

MATHEMATICS

Name of book: NCERT (A Text Book of Mathematics)

PT – I	HALF YEARLY	PRE- BOARD – I	PRE-BOARD - II
Ch1 Real Numbers Ch2 Polynomials Ch3 Pair of linear equations in two variables Ch4 Quadratic Equations Ch5 Arithmetic Progressions Ch8 Introduction to trigonometry	Ch-14 Statistics Ch-15 Probability Ch-11 Constructions Syllabus of Half Yearly - Chapters:1, 2, 3, 4, 5, 8, 11, 14, 15	Ch6 Triangles Ch7 Coordinate Geometry Ch-9 Some Applications of Trigonometry Ch-10 Circles Ch-12 Area's related to Circles Ch-13 Surface Areas and	Complete Syllabus

Syllabus for PT-I examination- Chapters:1, 2, 3, 4, 5		Volumes + Complete Syllabus	
SCIENCE			
Name of Book : Science Textbook For Class -10			
PT-1	Half Yearly	Pre- Board -I	Pre-Board - II
Physics Ch-12: Electricity Ch-13: Magnetic Effects of Electric Current	Physics Ch-10: Light: Reflection and Refraction	Physics Ch-11: Human Eyes and Colourful World Ch-14: Sources of Energy	Physics Complete Syllabus
Chemistry Ch-1: Chemical Reactions and Equations Ch-2: Acid Bases and Salts	Chemistry Ch-3: Metals and Non-Metals	Chemistry Ch-4: Carbon and it's Compounds Ch-5: Periodic Classification of Elements	Chemistry Complete Syllabus
Biology Ch-6: Life Processes Ch 16: Management of Natural Resources Ch-15: Our Environment	Biology Ch 8: How do Organisms Reproduce Ch-7: Control and Coordination + Entire Syllabus of PT-I	Biology Ch-9: Heredity and Evolution + Complete Syllabus	Biology Complete Syllabus

SOCIAL SCIENCE			
PT- I	HALF YEARLY EXAM	PRE BOARD – I	PRE BOARD – II
History: (India and the Contemporary World- II)			
Section 2: Ch-5: The Age of Industrialization Section 1: Ch-1: The Rise of Nationalism in Europe	Section1: Ch-3: Nationalism in India + Entire syllabus of PT I	Section 3: Ch-7: Print Culture and the Modern World + Complete syllabus	Complete syllabus
Geography: (Contemporary India-II)			
Ch-1: Resources and development Ch-2: Forest and Wildlife (only to be assessed in Periodic Test -1) Chp-3 : Water Resources (only to be assessed in Periodic Test -1)	Ch-4: Agriculture Ch-5: Minerals and Energy Resources + Entire syllabus of PT I	Ch-6 : Manufacturing Industries Ch-7: Life Lines of National Economy + Complete syllabus	Complete syllabus
Civics: (Democratic Politics II)			
Ch-1: Power Sharing Ch-2 : Federalism Ch-3: Democracy and	Ch-4: Gender, Religion and Caste Ch-5: Popular Struggles and	Ch-7: Outcomes of Democracy Ch-8: Challenges to	Complete syllabus

diversity (only to be assessed in Periodic Test -1)	Movement (only to be assessed in Class Test) Ch-6 : Political Parties + Entire syllabus of PT I	Democracy(only to be assessed in Class Test) + Complete syllabus	
Economics: (Understanding Economics Development)			
Ch-1: Development Ch-2: Sectors of the Indian Economy	Ch-3: Money and Credit + Entire syllabus of PT I	Ch-4: Globalisation and the Indian Economy Ch-5: Consumer Rights [Project based] + Complete syllabus	Complete syllabus
Note: Geography chapter -2 & 3 and Civics chapter-3, 5 & 8 will be done in Portfolio (Activity based chapters)			
COMPUTER APPLICATION			
Name of Book : Cyber Beans Computer Application			
Unit -2. HTML	Unit -1 Networking Unit -3 Cyber Ethics + Syllabus of PT-I	Unit - 4 Python Theory Unit - 5 Practical + Report File + Project	Complete Syllabus

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
LITERATURE - FIRST FLIGHT		
LESSON - 01 A Letter to God Critically examine the effects of having blind faith in God.	Students will be able to:- - Read with correct intonation. - Critically examine the effects of having blind faith in God. - Understand Subject-verb agreement. - Write Character Sketch. - Enrich their vocabulary. - Enhance reading skills.	Classroom discussion based on theme and message of the chapter.
LESSON - 02 - Nelson Mandela : Long Walk to Freedom Critically analyze the great leader's journey to freedom.	Students will be able to:- - Comprehend the text. - Critically analyze the importance of the impact of racial discrimination	Group discussion on the topic 'racial discrimination.'
LESSON - 03 - Two Stories about Flying - Enlist the efforts made by the mother to teach her children. - Process involved in a bird's learning to take flight.	Students will be able to:- - Analyze the situation with courage and self confidence. - Write Character Sketch. - Enrich their vocabulary. - Enhance reading skills.	Classroom discussion based on theme and message of the chapter.

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
LESSON - 04 - From the Diary of Anne Frank To inculcate the values of wisdom, dignity and strong character.	Students will be able to:- - Critically analyze the emotions of the people. - Write Character Sketch. - Enrich their vocabulary. - Enhance reading skills.	Classroom discussion based on problems faced by Jews during Nazi regime.
LESSON - 07 - Glimpses of India Enable students to know about beautiful places of our beautiful country India.	Students will be able to:- - Identify the famous tourist spots and destinations of India. - Read with correct intonation. - Enhance Vocabulary. - Understand Phrasal Verbs.	A poster making on the topic 'The Cultural Heritage of India'
POEM-01 - Dust of Snow To make the students understand the importance of small things in life having larger significance.	Students will be able to:- - Appreciate the poem and understand the rhythm and rhyming pattern of the poem. - Identify the poetic devices. - Examine the role of nature in one's life.	A debate on the topic 'Smaller incidents have larger impact.'
POEM-02 Fire and Ice To enable students to understand the deeper hidden meanings of the poem.	Students will be able to:- - Appreciate the poem and understand the rhythm and rhyming pattern of the poem. - Identify the poetic devices.	- Group discussion - Think-Pair-Share

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
	Critically examine the role of desires in one's life.	
POEM-03 - A Tiger in the Zoo To make the students appreciate the message of Wild-life conservation and afforestation.	Students will be able to:- - Appreciate the poem and understand the rhythm and rhyming pattern of the poem. - Identify the poetic devices. - Understand how a captive feels. - Critically analyze the importance of freedom.	A Speech on 'Animals also have right to freedom'.
POEM-04 - How to Tell Wild Animals To enable the students to humourously identify wild animals.	Students will be able to:- - Analyze the ways to identify wild animals. - Identify the poetic devices. - Understand how a captive feels. - Critically analyze the importance of freedom.	A discussion about the features of wild animals
LITERATURE - FOOTPRINTS WITHOUT FEET		
LESSON 01 - A Triumph of Surgery Students will get to know about the hazards of overeating and undue pampering.	Students will be able to:- - Understand that over-indulgence and excess eating is detrimental to health. - Read the text with proper intonation. - Enhance reading skills. - Enrich their vocabulary.	An article on unhealthy eating habits.

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
LESSON - 02 - The Thief's Story To make the students understand that the basic goodness of an individual can be rekindled with patience, trust and unconditional love.	Students will be able to:- - Understand the two different characters. - Enrich their vocabulary. - Develop listening, speaking and writing skills.	A Group Discussion on the topic "Love is a powerful force that can transform a criminal into a responsible citizen."
LESSON - 03 - The Midnight Visitor To make the students learn to make quick and wise decisions in hard times.	Students will be able to:- - Understand the need of thinking quickly and acting wisely in the dangerous situations. - Enrich their vocabulary. - Develop listening, speaking and writing skills.	The students will discuss the characteristic traits of a Secret Agent, the risks in this profession and the dangers encountered by the Secret Agents on the basis of their knowledge gathered from novels & movies.
LESSON - 04 - A Question of Trust To make the students understand that appearances are deceptive.	Students will be able to:- - Understand the need of thinking before acting. - Enrich their vocabulary. - Read the text with proper intonation.	Group Discussion on the topic "Thieves are crooked and must not be trusted."
LESSON - 05 - Footprints Without Feet To make the students understand that	Students will be able to:- Understand the need of using any power for	A debate on "The scientific inventions and their effects on

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
any power must not be misused.	good purpose. • Enrich their vocabulary. • Read the text with proper intonation.	society.”
GRAMMAR & WRITING SKILLS		
Tenses Determiners Reporting (i) Commands and requests (ii) Statements (iii) Questions Non Finites To enable the students use grammatically correct English.	Students will be able to:- • Understand the appropriate usage of Tenses and Determiners. • Change the direct speech to indirect speech. • Understand the difference between finite & non-finite verbs and using them properly.	• Preparing dialogues. • Group discussion. • Solving the practice exercises based on the examination.
Story Writing To enhance the students’ skill of writing a story on the basis of the beginning or the given clues.	Students will be able to:- • Write stories effectively with proper expressions, grammar usage, format usage and relevant vocabulary.	Story writing assignment
Formal Letters (Complaint & Inquiry) To make students learn how to express ideas chronologically with proper	Students will be able to:- • Write the letters of complaint and inquiry fluently and without difficulty	The students will be given assignments to write letters of complaint and inquiry.

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
expressions, grammar, format and relevant vocabulary.	in suitable tone, expressions and relevant vocabulary.	
READING SKILLS		
Unseen Passage To make the students learn conceptual understanding, decoding, analyzing, inferring, interpreting and vocabulary.	Students will be able to:- • Develop their reading and logical thinking skills.	Students will be given unseen passages to solve from previous years' papers.
HALF YEARLY EXAM		
FIRST FLIGHT		
LESSON 5 & 6 - The Hundred Dresses - I & II • To define the values that people look for in others in order to judge them. • Inculcate the values of friendship and standing up for one's friend.	Students will be able to:- • Understand the importance of talents and not possessions • Critically examine the choices offered by life. • Write Character Sketch. • Enrich their vocabulary. • Enhance reading skills.	A speech on the topic 'Don't judge a book by its cover.'
POEM-05 - The Ball Poem • To enable the students to handle the stress related to loss in life.	Students will be able to:- • Appreciate the poem and understand the rhythm and rhyming pattern.	Students will compose a poem on the topic 'Childhood'.

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
	• Understand that some losses are irreplaceable. • Use Imagery and other poetic devices. • Enrich their vocabulary.	
POEM-06 - Amanda! • To enable the students to understand the importance of freedom.	Students will be able to:- • Appreciate the poem and understand the rhythm and rhyming pattern. • Understand the importance of freedom. • Use Imagery and other poetic devices. • Enrich their vocabulary.	A debate on the topic 'The frequent undue interference of the parents in their children's life and its effects'.
POEM-07 - The Tale of Custard the Dragon • To introduce the Ballad style of poetry in a comic manner.	Students will be able to:- • Appreciate the poem and understand the rhythm and rhyming pattern. • Understand the importance of being brave by actions not by words. • Use Imagery and other poetic devices. • Enrich their vocabulary.	Students will compose a humorous poem.
POEM-08 - The Trees The students will be able to analyze the	Students will be able to:- • To identify the literary devices like imagery	Article writing on the topic 'Depleting Forest-Its

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
importance of trees and their natural habitat.	and metaphor. • Understand the importance of trees. • Enrich their vocabulary.	Consequences'
FOOTPRINTS WITHOUT FEET		
LESSON 06 - The Making of a Scientist • To inculcate the values of hard work and determination in the students.	Students will be able to:- • Learn the values of hard work and determination from the life of Richard Ebright. • Read the text with proper intonation. • Comprehend the text. • Answer the questions. • Enhance the reading skill.	• One minute talk on the topic "Role of a Mother In one's life." • Students will prepare a PPT on Richard Ebright and his journey to become a scientist.
LESSON 07 - The Necklace • To make the students understand the importance of being self contented.	Students will be able to:- • Understand the importance of being self contented and consequences of not being satisfied in life. • Enhance the vocabulary.	Write an article on self satisfaction
GRAMMAR & WRITING SKILLS		
Use of passive voice	Students will be able to:-	The students will solve the

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
Students will be able to frame grammatically correct sentences.	• Understand the appropriate usage of Passive Voice. • Change the Active Voice sentences into Passive Voice and vice versa.	questions of Integrated Grammar Practice.
Article writing To enable the students to express ideas fluently and spontaneously with proper expressions, grammar, format and relevant vocabulary.	Students will be able to:- • Develop an interest towards writing. • Express their ideas in a systematic and effective manner.	Students will solve the practice questions.
Letter for Placing Order Letter to the Editor To enable the students to express ideas harmoniously and chronologically with proper expressions, grammar, format and relevant vocabulary.	Students will be able to:- Write letter fluently with suitable tone, expressions and relevant vocabulary.	The students will solve questions on placing order and letters to the Editor.
PRE – BOARD – I		
LESSON- 08 - Mijbil the Otter • To make students aware of various pet taming skills.	Students will be able to:- • Critically analyse the relationship between animals and humans.	Writing an article about animals and their importance in human's life.

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
	• Read the text with proper intonation.	
LESSON - 09 - Madam Rides the Bus • To make the students understand, appreciate and enjoy the fiction. • To sensitize the students to the feelings of an individual.	Students will be able to:- • Understand the importance of planning. • Read the text with proper intonation. • Appreciate the humour in the lesson.	Think of an alternative ending to the story.
LESSON - 10 - Sermon At Benaras • To develop the values of patience, help and care for others.	Students will be able to:- • Understand the fact that death is inevitable. • Read the text with proper intonation. • Enhance the vocabulary.	A group discussion on the theme of the lesson.
LESSON - 11 - The Proposal • To develop the values of wisdom and truthfulness.	Students will be able to:- • The students will know about the importance of love & understanding in any relationship. • Read the text with proper intonation. • Enhance the vocabulary.	A group discussion on the theme of the lesson.
POEM-09 - Animals • To make the students learn specific qualities from animals.	Students will be able to:- • Appreciate the poem and understand the rhythm and rhyming pattern.	• An article on the topic 'An ideal life'.

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
	• Learn the unique qualities of animals. • Use Imagery and other poetic devices. • Enrich their vocabulary.	
POEM-10 - Fog • To enable the students infer the deeper meaning of the poems.	Students will be able to:- • To identify the literary devices like imagery and metaphor. • Understand the importance of freedom. • Use Imagery and other poetic devices. • Enrich their vocabulary.	
POEM-11 - For Anne Gregory To enable the students understand the importance of inner beauty.	Students will be able to:- • To identify the literary devices like imagery and metaphor. • Understand the importance inner beauty • Enrich their vocabulary.	Group discussion on the topic 'The Importance of inner Beauty'.
FOOTPRINTS WITHOUT FEET		
LESSON - 08 - The Hack Driver • To inculcate the values of righteousness and truthfulness.	Students will be able to:- • Understand that it's not right to earn money by using unfair means. • Understand the importance of honesty and	Dramatic presentation of the lesson by the students.

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
	integrity in life. • Enhance their vocabulary.	
LESSON - 09 - Bholi To make the students understand the need to educate every girl child.	Students will be able to:- • Understand the importance of leading a dignified life of service rather than surrendering oneself to greedy people. • Understand the importance of emotional security and family support for children. • Enhance their vocabulary.	A speech on the topic 'Role of a teacher in building the future of a child.'
LESSON - 10 - The Book That Saved the Earth • To make the students understand the importance of cultural camaraderie.	Students will be able to:- • Appreciate the humour and fantasy displayed in the chapter • Understand the theme of the lesson that misunderstanding of cultural differences between various races can cause confusion and conflicts. • Enhance their vocabulary.	Preparation of dialogues between an Earthling and a Martian.

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
GRAMMAR		
• Clauses (i) Noun clauses (ii) Adverbial clauses (iii) Relative clauses • Prepositions To enable the students to use grammatically correct sentences.	Students will be able to:- • Understand the appropriate usage of clauses, prepositions and modals. • Frame grammatically correct sentences.	
SUBJECT: ENGLISH – EXAM – PRE – BOARD – II		
Complete Syllabus		

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
पाठ-1: साखी (कबीर दास) (स्पर्श) - वाचन कौशल और श्रवण कौशल का विकास - कबीर की साखियों की प्रासंगिकता समझना - सहभागिता के महत्व को समझ संकीर्णता से मुक्ति	विद्यार्थी जानेंगे: - ज्ञान - प्रत्यक्ष ज्ञान महत्वपूर्ण है - आडंबर के स्थान पर सच्ची भक्ति महत्वपूर्ण है - कबीर की भाषा पूर्वी जनपद की भाषा जिसमें अन्य क्षेत्रीय भाषाओं का समावेश - समझ - सस्वर वाचन कौशल का विकास - दोहों में प्रयुक्त भाव को जानना - अपने शब्दों में प्रश्न के उत्तर लिखना।	पी.पी.टी. यू-ट्यूब वीडियो समूह चर्चा
पाठ-2: पद (मीरा बाई) - वाचन कौशल और श्रवण कौशल का विकास - मीरा की कृष्ण भक्ति की महत्ता का परिचय करवाना	विद्यार्थी जानेंगे: - ज्ञान - ब्रज भाषा के शब्दों का ज्ञान - कृष्ण भक्तों की रक्षा करते हैं - मीरा दास्य भाव (माधुर्य भाव) की भक्त	पी.पी.टी. यू-ट्यूब वीडियो समूह चर्चा

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
	2. कौशल - सस्वर वाचन कौशल का विकास - पदों में प्रयुक्त भाव को जानना - अपने शब्दों में प्रश्न के उत्तर लिखना।	
पाठ-3: दोहे (बिहारी) - वाचन व श्रवण कौशल का विकास - बिहारी की रीतिकालीन रचनाओं के अर्थ गांभीर्य का परिचय	विद्यार्थी जानेंगे: - ज्ञान - बिहारी रीतिकालीन कविता के प्रतिनिधि हैं। - रीतिकालीन काव्य सौंदर्य से परिचय - नीति, प्रकृति और श्रृंगारिक साहित्य - कविता ब्रज भाषा में है - विभिन्न अलंकारों का प्रयोग - कौशल - शुद्ध उच्चारण के साथ पठन क्षमता का विकास - स्वयं उत्तर लिखना - दोहों में प्रयुक्त भाव जानना	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
पाठ-1: बड़े भाई साहब (प्रेमचंद) • पठन एवं लेखन कौशल का विकास • खेल की उपयोगिता को समझना और खेल व शिक्षा में समन्वय सहभागिता के माध्यम से प्राप्त करना	विद्यार्थी जानेंगे: 1. ज्ञान • समय के महत्व का ज्ञान • शिक्षा की अपेक्षा अनुभव महत्वपूर्ण • प्रेमचंद की यथार्थवादी शैली का ज्ञान 2. कौशल • शुद्ध उच्चारण और पठन क्षमता का विकास • कहानी में प्रयुक्त मुहावरों को जानना • स्वयं के शब्दों में उत्तर लिखना	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो नाट्य रूपांतरण
पाठ-2: डायरी का एक पन्ना (सीताराम सेकसरिया) • पठन व लेखन कौशल का विकास • डायरी विधा का परिचय • आज़ादी का महत्व और देशप्रेम की भावना को जगाना	विद्यार्थी जानेंगे: 1. ज्ञान • 1931 में कलकत्ता में आज़ादी के प्रयासों का ज्ञान • आज़ादी में स्त्रियों की समान भागीदारी की जानकारी • आज़ादी की कीमत का परिचय 2. कौशल	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
	• शुद्ध उच्चारण और पठन क्षमता का विकास • डायरी विधा को जानना • स्वयं के शब्दों में उत्तर लिखना	
पाठ-3: तताँरा वामीरो कथा (लीलाधर मंडलोई) • पठन व लेखन कौशल का विकास • कहानी के माध्यम से लोक कथा विधा का परिचय	विद्यार्थी जानेंगे: 1. ज्ञान • सभ्य मनुष्यों की तुलना में जनजातियों में नियमों का अधिक पालन • रूढ़ियों का टूटना समाज के लिए आवश्यक • शक्ति के साथ नम्रता युवकों के लिए आवश्यक 2. कौशल • शुद्ध उच्चारण और पठन क्षमता का विकास • स्वयं के शब्दों में उत्तर लिखना	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो
पाठ-6: अब कहाँ दूसरों के दुःख से दुखी होने वाले (निदा फ़ाज़ली) • पठन कौशल और लेखन कौशल का	विद्यार्थी जानेंगे: 1. ज्ञान • जीव-जंतुओं के प्रति सहृदयता	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
विकास • प्रकृति संरक्षण की आवश्यकता और महत्व को समझना • व्यक्तिगत रूप से स्वच्छता रखना और पर्यावरण की सुरक्षा करना	• प्रकृति का दोहन विनाश का कारण • मानव बुद्धि का सदुपयोग आवश्यक 2. कौशल • शुद्ध उच्चारण के साथ पठन क्षमता का विकास • स्वयं उत्तर लिखना	
पाठ-1: हरिहर काका (मिथिलेश्वर) (संचयन) • वाचन कौशल का विकास • वृद्धों के प्रति कर्तव्यों का ज्ञान	विद्यार्थी जानेंगे: 1. ज्ञान • एकाकी जीवन में व्यक्तित्व का असंतुलित विकास • भौतिकता और आध्यात्मिकता का समन्वय • धार्मिक लोगों में लोभ का तत्व 2. कौशल • शुद्ध उच्चारण के साथ पठन क्षमता का विकास • सहयोग की भावना का विकास • कहानी के भाव को जानना	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो नाट्य रूपांतरण
पाठ-3:शब्द और पद में अंतर (व्याकरण)	• शब्दों के रूप परिवर्तन कर सकेंगे।	परिचर्चा

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
स्रोत, रचना, अर्थ व प्रयोग के आधार पर शब्दों के भेद का परिचय	स्रोत, रचना, अर्थ व प्रयोग के आधार पर शब्दों की पहचान कर सकेंगे।	पी.पी.टी. यू-ट्यूब वीडियो
पाठ-4: रचना के आधार पर रूपांतरण वाक्य की परिभाषा, अर्थ व रचना के आधार पर भेद स्पष्टीकरण	अर्थ व रचना के आधार पर भेद पहचानकर वाक्य परिवर्तन कर सकेंगे।	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो
पाठ-5: समास समास व उसके 6 भेदों परिभाषा, सामासिक पद निर्माण व समास विग्रह	सामासिक पद में प्रयुक्त समास के भेद की पहचान कर सकेंगे। समास विग्रह कर सकेंगे।	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो
पाठ-6: अशुद्धि शोधन मात्रा, लिंग, वचन, कारक, विशेषण, क्रियाविशेषण, क्रिया, सर्वनाम, पदक्रम, शब्दों की आवृत्ति संबंधी अशुद्धियाँ की जानकारी प्रदान करना।	अशुद्धियों के प्रकार जानकर शुद्ध वर्तनी का प्रयोग सीखेंगे।	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
पाठ-1: अपठित गद्यांश पढ़कर उत्तर देना	उचित वाक्य का निर्माण कर उत्तर लेखन करने में सक्षम होंगे।	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो
पाठ-8: अनुच्छेद लेखन संक्षिप्त रूप में विचारों का क्रमबद्ध प्रस्तुतिकरण	- क्रमानुसार लेखन में दक्षता प्राप्त करेंगे। - लेखन कौशल का विकास होगा।	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो
पाठ-9: पत्र लेखन (औपचारिक) पत्र-लेखन का महत्व एवं प्रारूप, विभिन्न विषयों पर पत्र-लेखन	- विचारों के लेखन व भाव अभिव्यक्ति में पारंगत होंगे। - लेखन कौशल का विकास होगा।	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो
पाठ-10: सूचना लेखन सूचना लेखन का महत्व व प्रारूप के अनुसार लेखन	- प्रारूप के अनुसार विभिन्न विषयों पर स्वयं सूचना लिख सकेंगे। - लेखन कौशल का विकास होगा।	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो
पाठ-11: संवाद लेखन विभिन्न विषयों पर परिस्थितिनुकूल संवाद लेखन	- चिंतनशीलता का प्रयोग कर अपने शब्दों में संवाद लिख सकेंगे। - लेखन कौशल का विकास होगा।	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
पाठ-4: मनुष्यता (स्पर्श) (मैथिलीशरण गुप्त) - वाचन, श्रवण और लेखन कौशल का विकास - भारतीय संस्कृति का परिचय - नैतिक मूल्यों से युक्त मानव बनने की प्रेरणा देना	विद्यार्थी जानेंगे: - ज्ञान - खड़ी बोली की रचना से परिचय - मैथिलीशरण गुप्त भारतीय संस्कृति से प्रभावित कविता के प्रतिनिधि हैं। - कर्ण, रंतिदेव, दधीचि और शिवि जैसे पौराणिक प्रसंगों से परिचय वसुधैव कुटुम्बकम् की भावना का ज्ञान - कौशल - शुद्ध उच्चारण के साथ वाचन क्षमता का विकास - स्वयं उत्तर लिखना - पदों में प्रयुक्त भाव जानना	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो
पाठ-5: पर्वत प्रदेश में पावस - वाचन कौशल का विकास - वर्षा ऋतु में पहाड़ों के असीम सौन्दर्य का परिचय	- ज्ञान: - छायावादी रचना से परिचय - मानवीकरण अलंकार का स्वाभाविक प्रयोग - चित्रात्मक शैली ज्ञान	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
• श्रवण व लेखन कौशल का विकास	• वर्षा ऋतु की सुन्दरता का ज्ञान 2. कौशल • शुद्ध उच्चारण के साथ वाचन क्षमता का विकास • स्वयं उत्तर लिखना - पदों में प्रयुक्त भाव जानना	
पाठ-7: पतझर में टूटी पत्तियाँ (रविन्द्र केलेकर) • पठन कौशल और लेखन कौशल का विकास • व्यवहारवाद की उपयोगिता और आदर्शवाद और व्यवहारवाद की तुलनात्मक जानकारी • तनाव के बढ़ते प्रभाव के कारणों को जानकर मानसिक शांति पाने के प्रयास करना	विद्यार्थी जानेंगे: 1. ज्ञान • मानसिक शांति अति आवश्यक • नैतिक मूल्यों के साथ भौतिक प्रगति • आदर्शवाद और व्यवहारवाद में समन्वय 2. कौशल • शुद्ध उच्चारण के साथ पठन क्षमता का विकास • स्वयं उत्तर लिखना • कहानी में प्रयुक्त मुहावरों को जानना	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
पाठ-8: कारतूस - पठन कौशल व लेखन कौशल का विकास - विद्यार्थियों में देशप्रेम और सच्ची वीरता की भावना जागृत करना - हबीब तनवीर के माध्यम से वज़ीर अली के किरदार का परिचय देना	- ज्ञान - एकांकी विधा का परिचय - त्वरित निर्णय लेने की आवश्यकता - देशभक्ति महत्वपूर्ण - कौशल - शुद्ध उच्चारण के साथ पठन क्षमता का विकास - स्वयं उत्तर लिखना	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो नाट्य रूपांतरण
पाठ-2: सपनों के-से दिन (संचयन) - वाचन कौशल का विकास - जीवन की महत्वपूर्ण अवस्था बचपन का ज्ञान	- ज्ञान: - स्काउट, एन.सी.सी. द्वारा देशभक्ति संभव - शारीरिक दंड बच्चों के विकास में बाधक - खेल और शिक्षा में समन्वय आवश्यक - कौशल - शुद्ध उच्चारण के साथ पठन क्षमता का विकास - कहानी के भाव जानना	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
व्याकरण : हिंदी व्याकरण- कोर्स 'ब' - फ्रैंक पब्लिकेशन		
पाठ-7: मुहावरे मुहावरे अर्थ व वाक्य प्रयोग	मुहावरे का अर्थ जानकर उनका अपने वाक्यों में प्रयोग कर सकेंगे।	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो
रचनात्मक लेखन : हिंदी व्याकरण- कोर्स 'ब' - फ्रैंक पब्लिकेशन		
पाठ-12: विज्ञापन लेखन कल्पनाशीलता का प्रयोग कर विज्ञापन लेखन	- नए सोच का प्रयोग कर आकर्षक विज्ञापन का निर्माण कर सकेंगे। - लेखन कौशल का विकास होगा।	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो
PRE-BOARD EXAM		
पाठ-7: तोप (स्पर्श) - वाचन कौशल का विकास - श्रवण व लेखन कौशल का विकास - प्रतीक के माध्यम से भूतकाल में की गई भूलों का परिचय	1. ज्ञान - कविता संस्कृतनिष्ठ बोली में लिखी गई है। - विरासत का संरक्षण देशभक्ति के समान - समय बलवान होता है - सेनानियों के कष्ट की अनुभूति 2. कौशल	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
	• शुद्ध उच्चारण के साथ वाचन क्षमता का विकास • स्वयं उत्तर लिखना • पदों में प्रयुक्त भाव जानना	
पाठ-8: कर चले हम फ़िदा • वाचन कौशल का विकास • श्रवण व लेखन कौशल का विकास • देश की रक्षा के लिए बलिदान की भावना का विकास • अमूल्य आज़ादी के प्रति साहसी भाव से परिचित होना	1. ज्ञान: • कैफ़ी आज़मी प्रसिद्ध शायर हैं। • संगीतबद्ध गीत अधिक प्रभावशाली • देशवासियों के लिए देशभक्ति के अनेक अवसर 2. कौशल • शुद्ध उच्चारण के साथ वाचन क्षमता का विकास • स्वयं उत्तर लिखना • गीत में प्रयुक्त भाव जानना	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो
पाठ-9: आत्मत्राण • वाचन कौशल का विकास • श्रवण व लेखन कौशल का विकास • प्रार्थना गीत से परिचित होना	1. ज्ञान • आत्मविश्वास के साथ सफलता का प्रयास • असफल होने पर पुनः प्रयास करना • सुख में भी ईश्वर को याद करना	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
	• बिना प्रयास के ईश्वर से कुछ पाने की कामना करना गलत है। 2. कौशल • शुद्ध उच्चारण के साथ वाचन क्षमता का विकास • स्वयं उत्तर लिखना • कविता में प्रयुक्त भाव जानना	
पाठ-3: टोपी शुक्ला (संचयन) • वाचन कौशल का विकास • 'बच्चे मन के सच्चे' का ज्ञान • विभिन्न धर्मों के प्रति सहिष्णुता	1. ज्ञान • धार्मिक संकीर्णता की समाप्ति • असफलता मजाक का विषय नहीं • घर और विद्यालय का सहयोगी वातावरण विकास में सहायक	परिचर्चा पी.पी.टी. यू-ट्यूब वीडियो

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
Ch.1: Real Numbers Students will study: - Euclid's Division Lemma. - The Fundamental Theorem of Arithmetic. - Irrational Numbers. - Rational Numbers and Their Decimal Expansions.	The Students will be able to : * Calculate HCF using Euclid's division lemma. * Describe fundamental theorem of Arithmetic. * Calculate the HCF and LCM of numbers using prime factorization. * Able to prove $\sqrt{2}$, $\sqrt{3}$ and $\sqrt{5}$ as irrational numbers	Worksheet based on Euclid's division lemma describing HCF calculation.
Ch.2: Polynomials Students will study: - Geometrical Meaning of the Zeroes of a Polynomial. - Relationship between Zeroes and Coefficients of a Polynomial. - Division Algorithm for Polynomials.	The Students will be able to : * Find zeros of polynomial * Find the roots by splitting the middle term. * Apply long division method to find quotient, remainder and divisor. * To apply division algorithm.	Questions will be given to solve in the class.
Ch.3: Pair of Linear Equations in Two Variables Students will study: Pair of Linear Equations in Two Variables.	The Students will be able to : * Write the equation in standard form * Draw graph and find solutions of two variable linear equations	Students will draw graph in the class to find the solutions of various linear equations.

- Graphical Method of Solution of a Pair of Linear Equations. - Algebraic Methods of Solving a Pair of Linear Equations. - Substitution Method, Elimination Method. - Cross-Multiplication Method. - Equations Reducible to a Pair of Linear Equations in Two Variables.	* Solve the equations by substitution , elimination and cross multiplication method. * Differentiate between consistent and inconsistent equation. * Solve practical situation based question.	
Ch.4: Quadratic Equations Students will study: - Quadratic Equations. - Solution of a Quadratic Equation by Factorisation. - Solution of a Quadratic Equation by Completing the Square. - Nature of Roots.	The Students will be able to : * Identify the quadratic equation. * Find roots of the quadratic equation using factorization and completing square method. * Use quadratic formula for finding roots * Find nature of roots.	Practical questions will be given to group of students to solve it.
Ch.5: Arithmetic Progression Students will study: - Arithmetic Progressions - nth Term of an AP - Sum of First n Terms of an AP	The Students will be able to : * Recognize AP * Find nth term and sum of first n terms. * Solve application based question	Worksheet based on will be formed.

Ch.8: Introduction to Trigonometry Students will study: 1. Trigonometric Ratios 2. Trigonometric Ratios of Some Specific Angles. 3. Trigonometric Ratios of Complementary Angles. 4. Trigonometric Identities.	The Students will be able to : * Angles and side relation of the right angle triangle. * Find the trigonometric ratios of the particular angles * Use trigonometric identities.	Posters will be formed.
Ch.11: Constructions Students will study: 1. Division of a Line Segment. 2. Construction of Tangents to a Circle.	The Students will be able to * Divide the line in the given ratio * Construct the similar triangles based on the specified scale factor	Similar triangles will be made in the copy of given scale.
Ch.14: Statistics Students will study: 1. Mean of Grouped Data 2. Mode of Grouped Data 3. Median of Grouped Data 4. Graphical Representation of Cumulative Frequency Distribution	The Students will be able to : * Understand the difference between the mean, median and mode * Apply the formula to calculate the mean, mode and median. * Able to draw the less than and more than ogive and to calculate the median.	Calculations of the mean, mode and median of real life examples. Construction of ogive to find median.
Ch.15: Probability Students will study: 1. Probability — A Theoretical Approach	The Students will be able to : * Understand the concept of theoretical probability.	Able to solve the questions based on probability.

	* Express the various terms like equally likely outcomes, events, sure events, complementary events and impossible events.	
PRE - BOARD		
Ch.6: Triangles Students will study: 1. Similar Figures. 2. Similarity of Triangles. 3. Criteria for Similarity of Triangles. 4. Areas of Similar Triangles. 5. Pythagoras Theorem.	The Students will be able to : * Understand the congruency and similarity criteria. * Understand Basic Proportionality (BPT) theorem. * Understand ratio of Area of similar triangles. * Understand Pythagoras theorem.	Various shapes of similar triangles will be measured to check the statements of various theorems.
Ch.7: Coordinate Geometry Students will study: 1. Distance Formula. 2. Section Formula. 3. Area of a Triangle.	The Students will be able to : * recognize the coordinate geometry in the real life questions. * Understand the importance of reference point. * Understand the point on horizontal and vertical axis.	On the card board plane will be made and flags will be inserted at various coordinates.
Ch.9: Some Applications of Trigonometry Students will study:	The Students will be able to : * Understand concept of line of sight.	Heights and distance will be measured of different objects.

1. Heights and Distances.	* Angle of elevation and depression. * Solve the word problem based on the height and distance.	
Ch.10: Circles Students will study: 1. Tangent to a Circle. 2. Number of Tangents from a Point on a Circle.	The Students will be able to : * Find the length of tangents drawn to the circle. * Find the angle formed between the two tangents. * Prove and apply the theorem related to circles.	Circles and tangents will be constructed in the copy.
Ch.12: Areas Related to Circles Students will study: 1. Perimeter and Area of a Circle. 2. Areas of Sector and Segment of a Circle. 3. Areas of Combinations of Plane Figures.	The Students will be able to : * Describe the basic terms related to circle like arc , sector, segment, circumference. * Calculate the length of an arc of the circle. * Calculate the area of the sector and segment of the circle. * Calculations of the areas of the combination of plane figures.	Calculations of the various arc length and sector area measurements practices in the class.
Ch.13: Surface Areas and Volumes Students will study: 1. Surface Area of a Combination of Solids.	The Students will be able to: * Surface area of combinations of solids. * Volume of combinations of solids.	Digital and PPT content will be shown. Brain storming sessions.

2. Volume of a Combination of Solids. 3. Conversion of Solid from One Shape to Another. 4. Frustum of a Cone.	* Conversion of solid from one shape to another. * Surface and volume of frustum of cone.	
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TOPIC	OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
CH -12 : ELECTRICITY Electric circuit, Electric current, Potential difference, Resistance, Ohm's law, Combination of Resistors, Joule's law of heating, Concept of Power and its Units.	1. To develop concept learning. 2. To understand the charges and their flow. 3. To enhance analytical approach.	1. Children will learn to be exposed to different processes 2. Grasping of core concepts. 3. Better understanding of concepts and application	Establishing concrete experience through active experimentation and accommodation.
CH-13 : MAGNETIC EFFECTS OF ELECTRIC CURRENT The magnetic field, field lines, field due to current carrying coil or solenoid. Force on current carrying conductor, Fleming's left-hand rule. Electromagnetic induction, the induced potential difference, Induced current. Fleming's Right Hand Rule, Direct Current Alternating current: frequency of AC. The advantage of AC over DC. Domestic electric circuits	1. To inspire learners to think and understand. 2. To learn to understand the concept of machine and various devices	1. Knowledge of applications. 2. Gain practical skill of handling various instruments.	Converging style of learning with accommodation.

TOPIC	OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
CH- 10 : LIGHT –REFLECTION Reflection of light, Spherical Mirrors, Representation of Images formed by Spherical Mirrors using ray diagrams. Sign conventions, Magnifications, Lens formula	1. To understand the daily life phenomena through concept learning and inductive approach.	Sensitivity towards eye care. Relating science with Day to Day.	Learning based on reflective observation and experimentation.
LIGHT- REFRACTION Refraction of light -Refraction through a rectangular glass slab, Refractive Index, Image formation, Power of lens	2. To infuse critical thinking and enhance application skills.		Organizing field work, activity based learning.
PRE – BOARD – I			
CH-11 : HUMAN EYE AND COLOURFUL WORLD The human eye, power of accommodation, defects of vision and their correction, refraction through a prism, Dispersion, twinkling of stars, Scattering of light and its applications.	1. To understand the concept and their practical application. 2. To evaluate the causes of natural phenomena.	Curiosity towards natural phenomenon. Investigatory skills.	Converging and assimilation styles involved.

TOPIC	OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING / INTEGRATED ART EDUCATION
CH-14 : SOURCES OF ENERGY Different forms of energy, conventional and non-conventional sources of energy, fossil fuels, solar energy. Biogas, the wind, water and tidal energy; nuclear energy Renewable versus non-renewable sources.	To develop sense of responsibility socially, economically, environmentally and morally	Energy consciousness.	Abstract conceptualization and accommodating.
PRE BOARD – II (Complete syllabus)			

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
Ch.1 - Chemical reactions and equations Students will be able to: 1. Write Chemical Equations. 2. Balance chemical equations. 3. Define the various types of chemical reactions with examples. 4. State the substances oxidized and reduced during oxidation/reduction reactions. 5. State the effects of oxidation reactions in everyday life.	Students would be able to: 1. Express a chemical reaction through a chemical equation 2. Analyze and differentiate between various types of chemical reactions 3. Explain redox reaction, identify oxidizing and reducing agents 4. Cite examples of oxidation in day to day life. Explain corrosion and rancidity and suggest ways to prevent them	To study various types of Chemical reactions.
Ch.2 - Acids, bases and salts Students will be able to: 1. Compare chemical properties of acids and bases, write equations and give illustration. 2. Analyze and compare pH of given solutions and find chemical nature of given solution. 3. Appreciate the importance of pH in daily life and apply neutralization to solve problem in day to day life. 4. Identify strong and weak acids and bases.	Students would be able to 1. Compare chemical properties of acids and bases, write equations and illustrations. 2. Apply pH in daily life. 3. Differentiate between strong and weak acids and bases. 4. Understand the uses of baking soda, bleaching powder, plaster of paris etc.	Lab activity 1. To study pH of different samples . 2. To study properties of dil HCl and NaOH.

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
5. Describe preparation of different salts and suggest their uses in day to day life.		
HALF YEARLY EXAM		
Ch.3 - Metals and Non Metals Students will be able to: 1. Understand the physical and chemical properties of metals and non metals. 2. Remember reactivity series of metals. 3. Know the difference between acidic, basic and neutral oxides. 4. Explain ionic bonding with electron dot structures. 5. Understand the properties of ionic compounds. 6. Understand the difference between minerals and ores. 7. Various steps involved in metallurgy. 8. Distinguish between roasting & calcination. 9. Chemical reactions involved in the	Students would be able to 1. Compare and contrast the physical and chemical properties of metals and non metals 2. Explanation for properties of ionic compounds 3. Comparison of sulphide and carbonate ores (metallurgical process) 4. Understand galvanization, anodisation and electroplating	Lab activity To compare reactivity of Al, Fe, Zn and Cu metals

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
extraction of metals of low, high and medium reactivities. 10. Understand the properties of alloys. + PT-I Syllabus		
PRE – BOARD		
Ch.4 - Carbon and its compounds Students will be able to: 1. Understand the covalent bond and different types of covalent bond and their formation. 2. Know the reason behind versatile nature of carbon. 3. Concept of allotropy and catenation. 4. Write the isomers of butane and pentane. 5. Explain and draw the covalent bonding in carbon/non metals. 6. Describe the properties and uses of Ethanol, Ethanoic acid, Soap and detergents.	Students would be able to know: 1. Reason for formation of strong bonds by carbon is its small size. 2. The saturated hydrocarbon contain single bonds between carbons and unsaturated hydrocarbon contain one or more double or triple bonds 3. Carbon : tetravalency , catenation . 4. IUPAC system of nomenclature. 5. Properties of ethanol and ethanoic acid. 6. Harmful effects of drinking alcohols. 7. Cleansing action of soap.	Lab activity 1. To compare cleaning action of soap in hard and soft water.
Ch.5 - Classification of elements Students will be able to:	Students would be able to: 1. Critically analyze and identify the position	

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
1. Understand the modern periodic law. 2. Periodicity and its cause. 3. Apply the knowledge and understanding of electronic configuration in locating the position of element in group and period in modern periodic table. 4. Classify elements on the basis of their atomic number. 5. Explain the variation in atomic size and valency of the elements with reasoning as we move in groups and periods. PT I + PT II and Half yearly Exam	of an element in the periodic table based on their electronic configuration. 2. Predict the variation in attributes of elements based on the movement and position in the periodic table. 3. Interact with peers and discuss different topics develop critical thinking and collaboration in the process.	

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
Ch.6 - Life processes To make students understand the concept of : • ‘Living Being’. Basic concept of nutrition and Respiration. • Transport and excretion in plants and animals.	Students will be able to - • Identify the vital life processes • Describe the different modes of nutrition • Explain the respiratory organs, mechanism of respiration and some common respiratory disorders in human being • Differentiate between the process of transportation and excretion taking place in plants and animals	• To remove chlorophyll from the leaf • Preparing a temporary mount of leaf peel to show stomata • Experiment to show that carbon dioxide is given out during respiration
Ch.16 - Management of Natural Resources To make students understand the concept of : • Conservation and judicious use of natural resources. • Forest and wild life; Coal and Petroleum conservation. • Examples of people’s participation for conservation of natural resources. • Big dams: advantages and limitations; alternatives, if any.	Students will be able to - • Express the necessity of resources • Explain distribution of forests, wildlife and their sustainable management • Describe the method of rainwater harvesting • Identify the importance of fossil fuels like coal and petroleum	• Through a poster show the consequences excess use of natural resources • Suggest ways to conserve natural resources

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
Water harvesting. Sustainability of natural resources.		
Ch.15 - Our Environment To make students understand the concept of : - Eco-system, - Environmental problems, Ozone depletion, - Waste production and their solutions. - Biodegradable and non-biodegradable substances.	Students will be able to - - Explain the various types of wastes being added to the environment - Classify the various components and their inter-relationships in an ecosystem - Predict the consequences due to human activities which affect the environment - Analyse reasons for ozone depletion - Interpret management of garbage disposal in own words	- Project on saving environment - Through a poster show the consequences of Ozone layer depletion
HALF YEARLY EXAM		
Ch.8 - How do organism reproduce To make students understand the concept of : - Reproduction in animals and plants (asexual and sexual) - Reproductive health-need and methods of family planning. - Child bearing and women's health.	Students will be able to - - Express the mode of reproduction by single organism - Discuss sexual reproduction in plants - Explain sexual reproduction in man	- Studying binary fission in Amoeba - Studying budding in yeast and hydra - Preparing a chart on male and female reproductive systems of humans - Preparing a chart showing double fertilisation in flowers

OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
Ch.7 - Control and coordination To make students understand the concept of : • Tropic movements in plants; • Introduction of plant hormones; • Control and co-ordination in animals: Nervous system; • Voluntary, involuntary and reflex action; • Chemical co-ordination: animal hormones.	Students will be able to - • Explain nervous system in human being • Describe reflex action • Recall coordination in plants • Discuss various tropic movements in plants • Locate the major endocrine glands in humans • Discuss action caused by nervous tissue	• Draw chart of reflex arc • Draw human brain • Draw chart on nerve cell explaining the working of neuron • Locate the major endocrine glands in humans
PRE-BOARD - I		
Ch.9 - Heredity and evolution To make students understand the concept of : • Heredity; Mendel's contribution- Laws for inheritance of traits: • Sex determination: brief introduction; • Basic concepts of evolution.	Students will be able to - • Give a basic explanation of heredity • Define dominant and recessive • Describe how a Punnett Square is used	• Preparing a chart on monohybrid and Dihybrid cross showing F1 and F2 generation

TOPIC	OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING/INTEGRATED ART EDUCATION
History			
(Section 2) Ch:5: The Age of Industrialisation 1. Patterns of Urbanisation 2. Migration and the growth of towns. 3. Social change and urban life 4. Merchants, Middle classes, workers and urban poor.	-Students understand how the industrialisation took place in Britain and how the pattern of industrial change was conditioned by colonial rule in India. -Understand how trade was carried out in Asia and how English trade impacted Indian trade.	--They get well informed about the growth of colonial imperialism and study of unfair trade practices. -Students appreciate the struggle undergone by countries for development.	-Role play: Gomastha and Jobber -Draw advertisement of Woodward's Gripe Water/Moonlight soap in your notebook and comment on the picture displayed on them.
(Section 1) Ch-1 : The Rise of Nationalism in Europe -The French Revolution and idea of Nationalism -Making of Nationalism in Europe -Making of Germany and Italy -Nationalism and Imperialism.	-Understand the way the idea of nationalism emerged and led the formation of nation states in Europe and elsewhere.	-the learners would appreciate the emergence of Nationalism in the world. -Know the use of culture in creating the idea of Nation.	-Role play on- Giuseppe Mazzini, Cavour and Garibaldi -Group discussion –French revolution.

TOPIC	OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING/INTEGRATED ART EDUCATION
Geography			
Ch-1 : Resources and development Types, distribution, and importance of resources, land as a resource, soil types and distribution, land use patterns, soil erosion, and land degradation, soil conservation methods, importance of sustainable development.	-Students understand the value of resources and the need for their judicious utilisation and conservation. -Spread awareness about the factors responsible for land degradation and conservation measures.	Students appreciate the value of using resources judiciously as an individual, respects the natural environment.	-Map depicting various soil types in India . -Group discussion on Sustainable development and conservation of resource.
Ch-2 : (Only to be assessed in Periodic Test-1) Forest and Wildlife -Biodiversity and biological diversity -Flora and Fauna in India -Vanishing wildlife and vegetation -community and conservation	-Understand the importance of forest and wildlife in one environment as well as develop concept towards depletion of resources.	-they will learn about types of species of plants, animals and importance of eco system. -develop concern about need to protect the biodiversity of India.	Make a chart showing vanishing species of flora and fauna.
Ch-3 : (Only to be assessed in Periodic Test-1) Water Resources	Students will aware about the growing water scarcity	Student realise the importance of natural resources and	- Debate on the merits and demerits of multipurpose

TOPIC	OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING/INTEGRATED ART EDUCATION
Sources, distribution, critical evaluation of multi-purpose projects, water scarcity, need for conservation and water resources and rain water harvesting.	and the need to conserve water.	develop analytical thinking about how to tackle such issues.	projects. - Map on various multipurpose projects.
Civics			
Ch- 1 : Power Sharing -Case study of Belgium and Srilanka -Why power sharing is desirable? -Forms of power sharing	-Understand the term power sharing. - know the importance of power sharing for the stability of democracy. -Express the necessity of power sharing. -Recognize the forms of power sharing.	-Know about the need and importance of power sharing. -Analyse the changing opinions about power sharing in different countries. -Students inculcate the values of cooperation, adjustments and coordination.	-To prepare a chart or power point presentation on power sharing arrangement in Belgium and Srilanka.
Ch- 2 : Federalism -What is Federalism? -What makes India a Federal country? -How Federalism is practiced?	-Understand the nature of federalism and its various types. -To understand the functioning of our government	-Identify and describe the federal structure of our country. -Appreciate the way federalism is practiced in India.	-Make a chart showing the working of the Panchayati Raj system in India.

TOPIC	OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING/INTEGRATED ART EDUCATION
-Decentralization in India.	and the federal structure of India. -Examine the ways in which the Supreme court has determined the status and balance of power among different levels of government.	-Develop the values of sharing and unity.	
Ch-3 : (Only to be assessed in PT-1) Democracy and diversity 1. Concepts of Social differences 2. Divisions in various countries and their implication.	-Analyse impact of social division on politics. -Students come to know how democracies respond to social differences and inequality leads to a better government.	-Understand the origin of social difference with day today examples. -Students imbibe the value of equality, fraternity and liberty.	-Discussion on the various social divisions present in India and the world. -MCQ questions
Economics			
Ch-1 : Development -The tradition notion of development, national income and per capita income. -Concept of HDI and the various	To explain what development is, what are common goals, mix of goals, sustainable development. -Student will learn about	-Students realise the importance of social surroundings, education, health etc. for his/ her development	-Collect the latest census data on human development indicators and analyse them. -Calculate BMI of your

TOPIC	OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING/INTEGRATED ART EDUCATION
indicators involved in measuring HDI. - Need for sustainable development.	the rationale for overall human development in our country and the importance of other criteria besides income, such as education and health in development.	-To help them understand how can a country develop in a sustainable way?	family members
Ch -2 : Sectors of Indian Economy The various sectors of the Indian economy with special focus on the service sector, its growth, causes of growth. The role of public sector in development of a country.	-Understand the classification of three sectors of economy. -Examine the changing role of tertiary sector in the Indian economy. -Understand the working conditions in organized and unorganized sectors.	- Students will understand the various employment generating sectors and the causes behind the recent growth in IT sector. -They will realise the important role of government in development of a country. -Students develop a sense of value of money.	-Data analysis of the contribution of various sectors to GDP and employment. -Group Discussion-on how workers are exploited in unorganized sector.

TOPIC	OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING/INTEGRATED ART EDUCATION
History			
Ch- 3 : Nationalism in India India's struggle for freedom , focus on the period from the first world war to Quit India movement, special focus on Gandhiji's contribution to making the national movement a mass movement.	Understand the emergence of nationalism in India -Analyse the participation of different social groups in the freedom struggle. -Comprehend use of cultural processes to promote nationalism.	-Critically think about the advent of Mahatma Gandhi turn around the political movement in India. -Students develop the value of creative thinking and decision making and patriotism.	-Discussion on the policy of non- cooperation adopted by Gandhi was mainly instrumental in achieving Indian independence.
Geography			
Ch- 4 : Agriculture Types of farming, major crops, cropping patters, technological and institutional reforms in agriculture and their impact, contribution of agriculture to national economy.	-Students understand the importance of agriculture in national economy; develop knowledge of the various crops grown in our country.	-Understand about the importance of agriculture and spatial distribution of crops in India. -Students realise the richness of Indian soil and its fertility.	-Map work on major food and cash crop.
Ch-5 : Mineral and Energy Resources	Students will realize the importance of judicious use	-Students value the importance of natural environment.	--Map work on locating, labelling and identification

TOPIC	OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING/INTEGRATED ART EDUCATION
Types of minerals, occurrence, distribution, utility and economic importance, need to conserve and steps that can be taken for sustainable use of resources, conventional and non-conventional energy resources.	of resources and the significance of replacing non renewable and conventional resources with renewable resource. -Students would be able to understand about various types of minerals and their uneven distribution.	-Awareness towards use of non conventional sources of energy instead of conventional sources of energy.	of various mineral reserves in the country.
Civics			
Ch- 4 : Gender, Religion, caste in politics How do Gender, caste and Religion impact politics and vice verse.	-To understand link between religion, communalism and politics. -To learn about gender and caste in politics. -Students understand that the various social diversities do not threaten democracies but strengthen	-They will be able to understand effects of discrimination in society and its drawbacks. -Students will be able to define the areas where women are discriminated. -They develop the value of respect and fraternal feelings	-Discussion on how caste and gender inequalities hinder progress in India..

TOPIC	OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING/INTEGRATED ART EDUCATION
	democracies.	towards the opposite sex and all castes and creed.	
Ch-5 : (Only to be assessed in Class Test) Popular Struggles and Movements -Popular struggles in Nepal and Bolivia. -Mobilization and organization. -Pressure groups and movements.	-Understand the vital role of people's struggle in the expansion of democracy.	-The students understand the difference between dissent and conflicts. -they will learn that how the issues of conflicts arise with a democratically elected and accepted gov.	Group Discussion on topic: Pressure groups and Movements are healthy for democracy.
Ch-6 : Political Parties Role of political parties, the various types of political parties and major national and regional parties in India.	--Students would be able to analyse difference between functions and challenges faced by political parties in democracy. -know about party system in democracies.	-Students get familiarize with the working of national and state parties. -Students inculcate democratic skills. - Students get an insight of various political parties present in India.	-Discuss on how to strengthen political parties so that they perform their functions well. -Make a chart of symbols of national and state parties.
Economics			
Ch-3 : Money and credit	-Students learn about the	-Understand the importance of	-Visit a bank learn to fill

TOPIC	OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING/INTEGRATED ART EDUCATION
Role of money in the economy, historical origin since barter system, formal and informal sources of credit, self Help groups.	concept of money as an economic tool, --will create awareness of the role of financial institution from the point of view of day to day life.	banks in the loan activities. -Comprehend the role of formal source of credit for economic development. Students develop a sense of value of money.	cheques withdrawal form, making of a draft deposit forms etc.
PRE BOARD EXAM I			
History			
Ch-7 : Print culture and the modern world The evolving of the printing culture, development of technology in printing, its impact on the society	. -Students will create awareness about the spread of technology and consider how social life and culture changed with the coming of print. -Students will be able to understand and observe technological changes in the printing press.	-Critically think about how the advent of print turn around the political and social consciousness across the globe. - understand the contribution of print in growing ideas of debating and questioning to establish authority. -Students develop their creative thinking.	-Group discussion on religious debates happening in India. -Group discussion on how printing developed in India and its impact on the society.

TOPIC	OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING/INTEGRATED ART EDUCATION
Geography			
Ch- 6 : Manufacturing Industries Types, spatial distribution, contribution of industries to national economy. Industrial pollution: causes and ways to control.	Students will learn about the importance of industrialization and how different areas are developed or undeveloped due to industrial development or the lack of it.	-Get aware about how industries are responsible for environmental degradation -Students value the need for international cooperation and coexistence.	- Map work on locating, labeling and identification of various manufacturing industries in India. -Discussion about strategies should be planned to minimize industrial pollution.
Ch- 7 : Lifelines of National Economy Transport, modes of transport and communication: roadways, railways, waterways, airways. Major seaports. International trade, communication and tourism as a trade	Students will realise the importance of transport and communication in everyday life and in the economy and will also realise the role that tourism and trade plays in the development of a nation.	Students start valuing the importance of national property such as railway property etc.	-Map work on important ports and airports, major national highways and expressways.
Civics			
Ch- 7 : Outcomes of Democracies Assessment of democracy on the	-Students learn to think about the outcomes of	-Evaluate Democracy vis other forms of gov. using different	Discuss whether India could achieve the best

TOPIC	OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING/INTEGRATED ART EDUCATION
basis of accountability, responsiveness, economic development, dignity of citizens and accommodation of social diversity.	democracy in various aspects -Understand merits of democracy	parameters. -Students value our system of civic life and appreciate the inputs like coordination, cooperation etc.	outcomes of Democracy.
Ch- 8 : Challenges to Democracy (Only to be assessed in Class Test) Major challenges to democracy and how they can be overcome.	Students learn about the challenges to democracy and how to overcome it.	Students develop analytical and critical thinking	Discussion on the major challenges of Indian democracy. Debate
Economics			
Ch- 4 : Globalisation and the Indian economy: What is globalisation? What role do MNCs play in this process, critical evaluation of the impact of globalisation on the Indian economy, the Indian economic policy before and after	-Students will learn about the impact of globalisation on today's society and economy, relate it to inflation, growing salaries, development of new cities etc. -Understand how MNCs set	- They will be able to learn about dominant forces that influence world trade. -Students start valuing the community cooperation. -They will come to know about the role of WTO in global trade.	Case study of the various MNCs working in India and their impact on the Indian economy. -Debate on the merits and demerits of Globalisation.

TOPIC	OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING/INTEGRATED ART EDUCATION
1990 and the rationale behind such a policy?	up base across the world		
Ch- 5 : Consumer Rights: (Project based chapter) How consumers in India are exploited, growing awareness and development of consumer movement in India. Legal measures taken by government, consumer rights, critical evaluation of the consumer movement in India.	-To develop critical thinking using case study of real life situation where consumer are exploited. -Familiarizing the legal measures available to protect consumers.	- Students will become aware of his/her rights and duties as a consumer and also know about the legal measures available to him for protection against exploitation. -Students inculcate the value of united movement against corruption and exploitation.	i) Poster making on consumer awareness in class work copy. ii) Skit on consumer exploitation and awareness.
Revision			

CONTENT/OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
Ch-3 : Basic HTML Elements To make the students learn : design web page using HTML tags • HTML and its capabilities • History of HTML • Writing HTML Documents • Creating an HTML Document • Viewing an HTML Documents • Tags, Elements and Attributes • HTML Documents Structure • Guideline for Writing HTML code • Common HTML Container Elements • Character Tags- Logical and Physical • Attributes of Body Elements • Empty Elements • Character Entities • List in HTML	Students will be able to: create simple Web Page using the Following : html, head, title, body, (attributes: text, background, bgcolor, link, vlink, alink), br (break), hr(horizontal rule), inserting comments, h1..h6 (heading), p (paragraph), b (bold), i (italics), u (underline), ul (unordered list), ol (ordered list), and li (list item). Description lists: dl, dt and dd. Attributes of ol (start, type), ul (type).	Programming Practical in Labs and Worksheets
Ch-4 : Images , Links and Tables To make the students understand • Inserting Images	Students will be able to: understand HTML tags: • Insert images: img (attributes: src, width,	Programming Practical in Labs and Worksheets

CONTENT/OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
• Linking web Pages • External Linking and the Anchor Tag <A> • Internal Linking • Linking of specific Section of Another Webpage • Creating an Email Link • Audio and Video • Tables • Creating Table in HTML • Attributes of the <TABLE> Tag • Attributes of the <TR>, <TD> and <TH>Tags • <THEAD> Tag • <TFOOT> Tag • <TBODY> Tag	height, alt), sup (super script), sub (subscript). • table, tr, th, td, rowspan, colspan • Links: significance of linking, anchor element (attributes: href, mailto), targets.	
Ch-5 : Forms and Frames To make the students understand : • Working of Forms • Creating a Form • Input Elements	Students will be able to: understand the use of HTML Forms, With various options like Textbox, radio buttons, checkbox, password, list, combo box	Programming Practical in Labs and Worksheets

CONTENT/OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
• Adding a TextBox • Adding a Checkbox • Adding a Radio Buttons • Adding a Password, • Adding a Drop-Down List • Adding a Combo Box. • Adding Buttons • Adding a Multiline Text Field • Application Area of Forms • Creating a Frameset and Frames		
Ch-6 : Cascading style sheets(CSS) To make the students use Cascading style sheets in HTML web pages. • Static Web Page and Dynamic Web Page • What is DHTML? • Components of DHTML • Cascading style sheets • What Cascading implies • Basic Selectors in CSS	Students will be able to: use style sheets to beautify the web pages using: • Cascading style sheets: colour, background-colour, border-style, margin, height, width, outline, font (family, style, size), align, float.	Programming Practical in Labs and Worksheets

CONTENT/OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
• Methods of Applying CSS • Using Multiple Types of style sheets Together • Font Properties • Text Properties • Background Properties • Margin • Padding • Border Properties • Height and Width Property • Float Property • Outline Property		
HALF YEARLY		
Ch-1 : Internet Basics To make the students understand the Concept of Internet. • Internet and its components • World Wide Web • Difference between WWW and Internet	Students will be able to: familiarize with network concepts • Web servers, web clients, web sites, web pages, web browsers, blogs, news groups, HTML, web address, e-mail address, downloading and uploading files from a	Discussion on Networking and Various types of Protocols.

CONTENT/OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
• Basic internet Terminology • Web Server • Website • Web Page • Web Browser • Web Address(URL) • HTML • Protocols • Blogs • Newsgroup	remote site. Internet protocols: TCP/IP,SMTP, POP3, HTTP, HTTPS. Remote login and file transfer protocols: SSH, SFTP, FTP, SCP, TELNET, SMTP, TCP/IP.	
Ch-2 : Internet Services To make the students understand Services available on the internet • Information Retrieval • E-Mail • E-Mail Services • Search Engine • Finding People on Internet • FTP Protocol • Other File Transfer Protocols	Students will be able to: understand the various services available on Internet. • Information retrieval, locating sites using search engines and finding people on the net • Web services: chat, email, video conferencing, e-Learning, e-Banking, e-Shopping, e-Reservation, e-Governance, e-Groups, social networking. • Mobile technologies: SMS, MMS, 3G, 4G. • Understand the concept of chat, email, video	• Practical and discussion on using search engines and how to find people on internet. • Practical and discussion on E-Services of Internet. • Discussion on SMS, MMS, 3G, 4G.

CONTENT/OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
• Telnet • Web Services • Chat • Video Conferencing • E-Learning • E-Banking • E-Shopping • E-Reservation • E-Governance • E-Groups • Social Networking • Mobile Technology	conferencing , e-Learning , e-Banking , e-Shopping , e-Reservation, e-Governance, e-Groups	
Ch- 7 : Cyber Ethics To make the students understand about Cyber ethics and cyber Safety with various terminologies related to it. • Netiquettes. • Cyberethics for E-Commerce • Secure Data Transmission • Other Ethical Issues	Students will be able to: follow basic cyber ethics. Have a clear understanding : • Threats to Computer Security and Solutions to Computer Security threats • Software licenses and the open source software movement. • Intellectual property rights, plagiarism and digital property rights.	Discussing and finding solution for Confidentiality of Information and Identity Protection While Using Internet

CONTENT/OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
• Open Source Philosophy • Freedom of information and the digital divide	• Freedom of information and the digital divide. • E-commerce: Privacy, fraud, secure data transmission	
PRE BOARD – I		
Ch-9 : Python Revision To make the students understand the various types of Python Statements. • Introduction to Python • Evolution of Python • Advantages of Python • Limitations of Python • Python Modes • Use of Interpreter in an interactive Mode • Variables in Python • Working in Script Mode • Python Compilation Process • Tokens	Students will be able to: understand : • Concept of Python ,its Evolution ,its Advantages and Limitations • Python Modes • Use of Interpreter in an interactive Mode • Variables in Python • Arithmetic Operators in Python • Precedence of Operators • Comments in Python • Basic of Lists ,Tuples and Dictionary in Python	Programming Practical in Labs and Worksheets

CONTENT/OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
• Dynamic typing in Python • Multiple Assignments I Python • Operators in Python • Precedence of Operators • Comments in Python • Lists in Python • Tuples in Python • Dictionary in Python		
Ch-10 : Conditional and Iterative constructs To make the students understand • Types of Control Structures • Conditional Statements in Python • Concept of Loop • Iterative Statements • for Loop • while Loop • Infinite Loop	Students will be able to: understand Conditional and loops in Python programming. • Revision of Python basics • Conditionals: if, if-else statements • Loops: for, while (e.g., sum of first 10 natural numbers) • Practice simple programs	Programming Practical in Labs and Worksheets

CONTENT/OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
Unit 5: Practical To make the students understand the given Practical and able to perform them in lab. Lab Exercises 1. Create static web pages. 2. Use style sheets to enforce a format in an HTML page (CSS). 3. Embed pictures, audio and videos in an HTML page. 4. Add tables and frames in an HTML page. 5. Decorate web pages using graphical elements. 6. Create a website using several WebPages. Students may use any open source or proprietary tool. 7. Work with HTML forms: text box, radio buttons, checkbox, password, list, combo box.	Students will be able to: perform the given practical in lab	Programming Practical in Labs and Worksheets

CONTENT/OBJECTIVE	LEARNING OUTCOMES	EXPERIENTIAL LEARNING /INTEGRATED ART EDUCATION
8. Write a blog using HTML pages discussing viruses, malware, spam and anti viruses 9. Create a web page discussing plagiarism. List some reported cases of plagiarism and the consequent punishment meted out. Explain the nature of the punishment in different countries as per their IP laws. 10. Create simple stories with Scratch (involving at least two objects/characters) and iteration OR write programs for finding the sum/product of first n natural numbers using Python		
PREBOARD II Complete syllabus		