



Annual Curriculum (2023-24)
GRADE - XII
SUBJECT- PHYSICS

Book prescribed : NCERT

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of teaching /Art of teaching	Learning Outcome
April	Ch-1 Electric charges and fields Ch-2- Electrostatic potential and capacitance	The students will be able to understand the following topics 1. Types of charges 2.cause of frictional electricity 3.potential and how energy stored in a capacitor	A charged comb attract pieces of paper due to induced charge	Teaching will be on offline mode in which students will be made to understand every topic of the chapter. Methodology will include displaying the topics by video display on digital board and offline class lectures .with pedagogical method	Knowledge Students will know About electric charge and field Skills and competencies: Students will learn to practically use of capacitor in different electrical appliances
May	Ch-3-Current electricity	The students will be able to understand the following topics 1.cocept of electric current and drift velocity 2.emf and TPD 3.application of wheatstone bridge principle	If potential at two side of a conductor is same current is zero it means without potential difference current is not possible	Teaching will be on offline mode in which students will be made to understand every topic of the chapter. Methodology will include displaying the topics by video display on digital board and offline class lectures .with pedagogical method	Knowledge Students will know Electric current due to voltage Skills and competencies: Students will learn to apply principle of wheatstone bridge to different appratus
July	Ch-4-Moving charges and Magnetism	The students will be able to understand the following topics	Magnet has two pole ,it get deflected due to	Teaching will be on offline mode in which students will be	Knowledge Students will know

	Ch-5-Magnetism and matter	1. magnetic field due to a current carrying conductor 2. properties of different type of magnet 3. application of biot savert law	production of magnetic field due to current	made to understand every topic of the chapter. Methodology will include displaying the topics by video display on digital board and offline class lectures .with pedagogical method	How magnetic field generated due to electric current Skills and competencies: Students will learn cause of earth magnetism
August	Ch-6-Electromagnetic induction Ch-7- Alternating current	The students will be able to understand the following topics 1. induced emf due to change in magnetic flux 2. application of eddy current 3. working mechanism of transformer and ac generator	Needle of different meter of vehicle works due to eddy current Ac shows skin effect on wire so wire is insulated to reduce loss of energy	Teaching will be on offline mode in which students will be made to understand every topic of the chapter. Methodology will include displaying the topics by video display on digital board and offline class lectures .with pedagogical method	Knowledge Students will know Merits and demerits of eddy current Skills and competencies: Students will learn to supply alternating current at minimum loss of energy
September	Ch-8-Electromagnetic Wave Ch-9-Ray optics and optical instrument	The students will be able to understand the following topics 1. electro magnetic spectrum 2. no change in velocity with frequency and wavelength 3. application of ray optics	Due to high frequency of x rays faults in metro pillar are detected by x rays Human eye is sensitive for infrared rays but animals not sensitive for infrared rays so for wild animals study it is very much useful	Teaching will be on offline mode in which students will be made to understand every topic of the chapter. Methodology will include displaying the topics by video display on digital board and offline class lectures .with pedagogical method	Knowledge Students will know Uses of different e m wave in daily life Skills and competencies: Students will learn the quality of different concrete pillar by using X rays and ray optics in astro physics

October	Ch-10-Wave optics Ch-11-Dual Nature of radiation and matter	The students will be able to understand the following topics 1. reflection refraction on the basis of Huygens principle 2,differ action of light 3. effect of incidence light on photo electric current	Actual position of an invisible ship can be spotted by the concept of interference of light	Teaching will be on offline mode in which students will be made to understand every topic of the chapter. Methodology will include displaying the topics by video display on digital board and offline class lectures .with pedagogical method	Knowledge Students will know change in intensity of sound and light due to interference of sound and light with dual character of light Skills and competencies: Students will learn cause of absorption of light and sound for safe navigation as well as importance of photoelectric effect
November	Ch-12- 13-Atoms and nuclei Ch-14-Semiconductor	The students will be able to understand the following topics 1. different model of atom 2.discovery of nucleus 3.application of semiconductor	Different photo diode can be used to on off the street light	Teaching will be on offline mode in which students will be made to understand every topic of the chapter. Methodology will include displaying the topics by video display on digital board and offline class lectures .with pedagogical method	Knowledge Students will know nature of an atom and conducting property of semiconductor Skills and competencies: Students will learn to apply semiconductor chip to make a rectifier and amplifier
December	Full Syllabus			Teaching will be on offline mode in which students will be made to understand every topic of the chapter. Methodology will include displaying the topics by video display on digital board and offline class lectures .with pedagogical method	
January	Full Syllabus			Teaching will be on offline mode in which students will be made to understand every topic of the chapter.	

				Methodology will include displaying the topics by video display on digital board and offline class lectures .with pedagogical method	
February	Full Syllabus			Teaching will be on offline mode in which students will be made to understand every topic of the chapter. Methodology will include displaying the topics by video display on digital board and offline class lectures .with pedagogical method	

Weekly Test1---Ch 1, 2 3

Weekly Test2—Ch 3 4 5

Half Yearly Ch 1 2 3 4 5 6 7 8

Weekly Test 3 -- 6 7

Weekly Test 4 – 8 9

Annual Exam Syllabus. Full syllabus

Pre Board 1 Full syllabus

Pre Board 2 etc Full syllabus



Annual Curriculum (2023-24)
GRADE – XII
SUBJECT-CHEMISTRY

Book prescribed : NCERT CLASS XII PART 1 AND PART 2

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of teaching /Art of teaching	Learning Outcome
April	CH-1 SOLUTIONS	<p>The learner will be able to :</p> <p>(1) describe different types of solutions.</p> <p>(2) express concentration of solution in different units.</p> <p>(3) State and explain Raoult's Law and Henry's Law.</p> <p>(4) distinguish between ideal and non-ideal solutions</p> <p>(5) explain deviations from Raoult's law</p> <p>(6) describe colligative properties of solutions and also explain abnormal molecular masses.</p> <p>Learner will be able to :</p>	<p>Students will prepare a standard solution of any salt.</p>	<p>Introduction of topic as there are numerous solutions in the surroundings.</p> <p>Lecture and Discussion method will be used to explain the topic.</p> <p>NCERT intext and exercise questions along with numericals will be discussed in the class.</p>	<p>Student will be able to</p> <p>(1) classify solutions.</p> <p>(2) analyze and interpret graph of Henry's law and Raoult's law.</p> <p>(3) measure physical quantities such as volume, using appropriate apparatus.</p>

	CH-2- ELECTROCHEMISTRY	<p>(1) Describe an electrochemical cell and electrolytic cell.</p> <p>(2) apply Nernst equation for calculating the emf of the cell.</p> <p>(3) define resistivity, conductivity and molar conductivity of ionic solutions.</p> <p>(4) differentiate between ionic and electrolytic conductance.</p> <p>(5) explain Kohlrausch's law.</p> <p>(6) understand quantitative aspect of electrolysis</p>		<p>Lecture and Discussion method will be used to explain the topic.</p> <p>NCERT intext and exercise questions will be discussed and solved in the class.</p>	<p>Student will be able to:</p> <p>(1) realize and appreciate the interface of chemistry with electricity.</p> <p>(2) differentiate technical terms based on properties such as ionic and electrical conductivity.</p>
May	CH-2- ELECTROCHEMISTRY (CONTD.) CH-6-	<p>Learner Will be able to:</p> <p>1. Students will develop relation between standard potential of the cell and Gibbs energy of reaction and its equilibrium constant.</p> <p>2. Describe the construction of some primary and secondary batteries and fuel cells.</p> <p>3. Understand the corrosion as an electrochemical process.</p> <p>Learners would be able to correlate the structures of haloalkanes and haloarenes with various types of reaction.</p>	Students can draw the diagrams and make cells .	<p>Students' will be demonstrated the cells using powerpoint presentations and videos.</p> <p>Interactive cum discussion method.</p>	<p>Student will be able to</p> <ul style="list-style-type: none"> • describe the construction of some primary and secondary batteries and fuel cells; • explain corrosion as an electrochemical process.

	HALOALKANES AND HALOARENES		1.Quiz 2.Case Study 3.PPT	<p>Introduction of the topic- ppt and Digital Content would be made by students.</p> <p>Collaboration:Students learn to work in collaboration to achieve a common goal. They learn to manage time and divide and delegate work and responsibilities. Creativity and innovation.Students use the knowledge given in class and create projects and models and perform research to give innovative solutions to the problem studied. Guided practice followed by Independent Practice- NCERT questions to be discussed in the classroom. :</p> <p>Techniques to be used: Daily Practice Problem MCQ Peer Assessment</p>	<p>Students will know and understand</p> <ol style="list-style-type: none"> 1. Preparation and reaction of haloalkanes and haloarenes 2. Use of stereochemistry to understand the mechanism 3. Application of organometallic compound 4. Environmental effect of poly halogens compound <p>SKILLS AND COMPETENCIES- Students would be able to</p> <ol style="list-style-type: none"> 1. Understand the mechanism of nucleophilic substitution 2. Solve problems based on chemical reaction of haloalkanes 3. Questions based on conversions 4. Solve questions pertaining to chemical equation
July	CH-7-ALCOHOLS,PHENOLS AND ETHERS	Students would be able to understand the functional group in alcohols and phenols, their physical and chemical properties.	Experiments based on differentiation of primary, secondary and tertiary alcohols.	<p>Brain Storming-</p> <p>The class would start with a discussion on what the students have already learnt in the previous classes and hence what is it that they would learn now. They would also be told the significance of the</p>	<p>Students will know and understand</p> <ol style="list-style-type: none"> 1. The nature of OH group 2. The properties of hydroxyl group. 3. How phenols differ from alcohols. <p>SKILLS AND COMPETENCIES- Students would be able</p> <ol style="list-style-type: none"> 1. To Critically analyses the reactivity of hydroxyl group.

	<p>CH-3- CHEMICAL KINETICS</p>	<p>Students would be able to</p> <ol style="list-style-type: none"> 1.To obtain knowledge on the scope of Chemical Kinetics 2. To understand the aims and objectives of teaching of Chemical Kinetics 3.To examine the need and significance of teaching of Chemical Kinetics 4.To explore the values of teaching of Chemical Kinetics 	<p>Students can make ppt and project on chemical Kinetics.</p>	<p>topic that they would be studying.</p> <p>Techniques to be used: Quiz Daily Practice Problem MCQ Peer Assessment</p> <p>Introduction of the topic- ppt and Digital Content would be made by the students.</p> <p>Lecture and discussion method.</p> <p>NCERT intext and exercise questions will be discussed and solved in the class.</p>	<ol style="list-style-type: none"> 2. Collaboratively suggest methods to prepare alcohols from other functional groups 3. To clarify difference between alcohols and phenols 4. To identify relationship between acidic character and polarity of OH bond. 5. Answer knowledge and understanding questions based on the topic. <p>Learners will be able to:</p> <p>KNOWLEDGE- • define the average and instantaneous rate of a reaction; • express the rate of a reaction in terms of change in concentration of either of the reactants or products with time; • distinguish between elementary and complex reactions; • SKILLS- Students would be able to differentiate between the molecularity and order of a reaction; • define rate constant; • discuss the dependence of rate of reactions on concentration, temperature and catalyst; • derive integrated rate equations for the zero and first order reactions; •</p>
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					determine the rate constants for zeroth and first order reactions; • describe collision theory.
August	CH-8- ALDEHYDES, KETONES AND CARBOXYLIC ACIDS	<p>To enable the students to</p> <ol style="list-style-type: none"> 1. Write the common and IUPAC names of carboxylic acids 2. Write the structures of the compounds containing functional groups namely carbonyl group and carboxylic group 3. Describe the important methods preparation and reactions of carboxylic acids 4. Correlate the physical properties and chemical reactions of this class of compounds with aldehydes and ketones 5. Explains the mechanism few selected reactions of carboxylic acids 6. Understand various factors responsible for the acidity of the carboxylic acids 7. Describe the various uses of carboxylic acids. <p>To enable the students to be able to</p> <ol style="list-style-type: none"> 1. Draw modern periodic table. 	Teaching using some locally available materials of samples of carboxylic acids as available in the kitchen. Partially teaching by practical demonstrations and partially by using e- content.	<p>Students will be demonstrated the various reactions using powerpoint presentations and videos.</p> <p>Interactive cum discussion method.</p> <p>Preparation of saturated 40 percent solutions of formalin at different temperature and pressure conditions Verification of functional group test for carboxylic acids etc.</p> <p>NCERT intext and exercise questions will be discussed and solved in the class.</p>	<p>Students will be able to</p> <ol style="list-style-type: none"> 1. write the common and IUPAC names of carboxylic acids 2. Write the structures of the compounds containing functional groups namely carbonyl group and carboxylic group. 3. Describe the important methods preparation and reactions of carboxylic acids. 4. Correlate the physical properties and chemical reactions of this class of compounds with aldehydes and ketones. 5. Explains the mechanism few selected reactions of carboxylic acids . 6 Understand various factors responsible for the acidity of the carboxylic acids. 7. Describe the various uses of carboxylic acids. <p>Learner will be able to:</p>

	CH-4- D AND F BLOCK ELEMENTS	<p>2. Know the different blocks of elements in the periodic table.</p> <p>3. Understand the properties of d & f block elements.</p> <p>4. Appreciate their applications in day to day life.</p>	Pneumonics to learn the d and f block elements.	<p>ICT aided teaching. Teaching aids used : Power point presentation, Videos , interactive board etc.</p> <p>NCERT intext and exercise questions will be discussed and solved in the class.</p>	<p>1. Define d and f block elements. 2. Write the general outer electronic configuration of d and f block elements. 3. Understand the properties of transition elements. 4. Understand the preparation ,properties and uses of potassium permanganate and potassium dichromate. 5. Draw the structure of chromate and dichromate ion. 6.Differentiate between the properties of lanthanoids and Actinoids.</p>
September	CH-10 BIOMOLECULES	Students would be able to understand structure and function of carbohydrates, proteins, lipids, nucleic acids, enzymes and factors affecting them.	Tricks to learn structures of various carbohydrates .	<p>NCERT questions to be discussed in the classroom.</p> <p>Techniques to be used: Quiz MCQ Peer Assessment Case Studies Lab Activities</p>	<p>Students will know and understand</p> <p>1. Carbohydrates: structure and function, classification of carbohydrates on the basis of number of carbon atoms and functional groups.</p> <p>2. Proteins: structure and function, zwitter ion, pH sensitivity, polymerization.</p> <p>3. Nucleic acids: structure and function, differences between DNA and RNA, polymerization of nucleotides to form polymer</p> <p>4. enzymes and catalytic activity</p> <p>SKILLS- Students would be able to-</p>

					Draw structures of carbohydrates, lipids, proteins, nucleic acids. Write equations to show formation of peptide bond, glycosidic bond, phosphodiester bond and Understand how do enzymes speed up rate of reactions.
October	CH-5- CO-ORDINATION COMPOUNDS REVISION FOR PRE-BOARD-1	Students would be able to understand the chemistry of Co-ordination compounds, Isomerism and naming of coordination compounds.	TRICKS to learn the crystal field theory and sprctrochemical series.	NCERT questions to be discussed in the classroom. Techniques to be used: Daily Practice Problem MCQ Peer Assessment . Group discussion helps to develop interpersonal skills, respecting and valuing views of others. HOTS	Students will know and understand 1.postulates of Werner's theory of coordination 2. know the meaning of the terms: coordination entity, central atom/ion, ligand, coordination number, coordination sphere, coordination polyhedron, oxidation number homoleptic and heteroleptic 3.Rules of nomenclature of coordination compound 4.Crystal field theory and valence bond theory. Students would be able to 1. Name coordination compound according to IUPAC rules. 2. Predict the behavior of co-ordination compound on the basis of valence bond theory . 3. Recognize and classify the various isomers.

					4. Solve questions pertaining to structure and properties.
November	CH-9-AMINES REVISION FOR PREBOARD-II	Students will be able to understand about the 1. Definition and Classification of amines. 2. Understanding of nomenclature of amines 3. Understanding structure of amines . 4. Understanding various methods of preparation of amines . 5. Understanding basic nature of amines and Distinguishing between primary, secondary and tertiary amines.		Demonstration method, Explanation method Questioning method , Activity orientated method.	Students will be able to discuss about amines , Classification of amines and Understand the preparation & properties of amines.
December	REVISION FOR PREBOARD-III				
January	REVISION FOR PREBOARD-IV CBSE FINAL PRACTICALS				
February	CBSE FINAL PRACTICALS				

Weekly Test 1 Syllabus – Ch-1 and 2

Weekly Test 2 Syllabus----Ch-3,6,7

Mid Term Examination Syllabus – Ch-1,2,3,4,6,7

Pre board 1 Syllabus – Ch-1,2,3,4,6,7,8,10

Pre Board Examination 2 Syllabus – Ch-1, 2, 3,4,5,6,7,8,10

Pre-Board Examination 3 Syllabus—Full Syllabus

Pre- Board Examination 4 Syllabus—Full Syllabus

Pre-Board Examination 5 Syllabus---Full Syllabus



ANNUAL SYLLABUS (2023-2024)
GRADE - XII
SUBJECT – ENGLISH CORE 301

Book prescribed : Flamingo & Vistas

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of teaching /Art of teaching	Learning Outcome
March	Ch.1 - Last Lesson Poem My Mother at Sixty- Six	<p>i) to make students realise that ageing is a natural process and is going to envelope one and all.</p> <p>ii) comprehend the story, understand, enjoy and appreciate a wide range of text (different genre)</p> <p>iii) understand the meaning and usage of phrases and statements</p>		Lecture & discussion method	<p>Students will be able to</p> <p>i)read the poem with proper expressions, pauses and voice modulation.</p> <p>ii) comprehend the poem.</p> <p>iii)understand and find out the figures of speech in the poem.</p> <p>iv)understand and share the loneliness of aged.</p> <p>v) understand the importance of our duties towards the elderly people.</p>
April	Flamingo Ch. – 2 Lost Spring Vistas:Ch.1 –Third Level Ch. 4 – The Enemy Writing Skill: Invitations & Letter Writing (Letter to Editor)	<p>To enable the students to-</p> <p>i) communicate their ideas with a lot of conviction. appreciate the theme and the message conveyed.</p> <p>UN Sustainable Goals to be discussed:</p> <p>. Quality Education – Students will gain insight into the problems of slums and refugees where the children also work to support parents</p>	Poster Making	Lecture & Interactive method	<p>Students will be able to-</p> <p>i) analyse that there are millions of children experience no spring in their lives, for their childhood is consumed in making a living.</p> <p>Students will be able to</p> <p>-identify and make connections between similar situations in own life experiences</p> <p>-understand the contrast</p>

	<p>Reading Skill : Reading Comprehension</p>	<p>i)comprehend the chapter. and to enhance their vocabulary. ii) communicate their ideas with a lot of conviction. conveyed. analyse the situations and characters of the chapter. To enable the students to -understand how fantasy and reality can be interwoven -understand “waking dream wish fulfilment” concept. To enable the students to- i)comprehend the chapter. and to enhance their vocabulary. iii) communicate their ideas with a lot of conviction. conveyed. iv) analyse the situations and characters of the chapter. v) understand that there are moments in life when we have to make a hard choice between our role as private individuals and as citizens with a sense of national loyalty.</p> <p>To enable the students Conceptual Understanding, application of rules, Analysis, Reasoning, appropriacy of style and tone, using appropriate format and fluency, inference, analysis, evaluation and creativity.</p>			<p>between the fantasy world and real world -acquire realistic approach towards real life challenges. Students will be able to- i) conclude that people of the world are inherently the same despite the differences in colour, culture and nationalities. realize that war and narrow – nationalism can shuffle human feeling of love and compassion and turn friends and fellow human beings into enemies. Students will be able to- Recall the format and express themselves creatively, develop fluency and Critical Thinking..</p>
<p>May</p>	<p>Flamingo Ch. -3 Deep Water Ch.4 - The</p>	<p>To enable the students to- i) evoke subjective responses to the language of poetry.</p>		<p>Lecture & Interactive method</p>	<p>Students will be able to- i) appreciate/comprehend the text</p>

<p>Ratrap & Keeping Quiet Vistas: Ch. 2: Tiger King Ch.3 – Journey to The End of the Earth Writing Skill : Notice writing</p>	<p>ii) appreciate the images and symbols. iii) understand the critical appreciation of the poem based on rhyme, content, theme, genre and literary elements iv) appreciate the beauty of language and understand the rhyme scheme To enable the students to- e i) understand, enjoy and appreciate not only entertaining but also philosophical text ii) understand the use of literary devices to make the story humorous and interesting understand everyone should get a second chance to improve oneself To enable the students to- i) understand first person narrative style ii) understand phrases/catchy lines from the text iii) analyse the difficult situation and act accordingly and to understand another person's experience (Decision Making) To enable the students to- -comprehend the chapter. enhance their vocabulary and expressions. - communicate their ideas regarding Antarctica. -understand that India and Antarctica at one point of time had been part of the same landmass. -understand that the breakup of Gondwana started the episode of a</p>				<p>ii) understand that most challenging situations could be overcome with immense courage and determination iii) know various types of water sports and phobias v) understand that there is terror only in the fear of death and at death there is peace Students will be able to- i) understand that humour is the spice of life ii) become compassionate and help develop a flair for reading different genres iii) understand everybody must get a chance to undo the wrong he did Students will be able to- -understand that millions of years ago humans hadn't arrived and the climate was much warmer with a variety of flora and fauna. -know that the landmass disintegrated into countries shaping the globe. -understand that to study the Earth's past, present and future, Antarctica is the place – the World's geological history is in Antarctica. Students will be able to- Recall the format and express themselves creatively, develop fluency and Critical Thinking..</p>
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		<p>continental drift.</p> <p>-understand the significance of Cordilleran folds and pre- Cambrian granite shield.</p> <p>To enable the students Conceptual Understanding, application of rules, Analysis, Reasoning, appropriacy of style and tone, using appropriate format and fluency, inference, analysis, evaluation and creativity.</p>			
July	<p>Flamingo:Ch. 5 Indigo, Ch. 6 Poet And Pancakes Poem: A Thing of Beauty Vistas:Ch. 6 –On the face of it Writing Skill: Repo rt Writing</p>	<p>To enable the students to</p> <p>i) know the vocabulary used in legal procedures</p> <p>ii) understand the qualities of a leader and about role of Gandhiji in freedom movement</p> <p>iii) know about different freedom fighters in the text.</p> <p>iv) know fundamental rights</p> <p>know the sacrifices and sufferings of people for gaining freedom</p> <p>To enable the students to-</p> <p>-comprehend the chapter</p> <p>- enhance their vocabulary and expressions</p> <p>- communicate their ideas regarding the Indian Film Industry.</p> <p>-enhance their knowledge of the events and personalities in a film company in the early days of Indian cinema.</p> <p>-know about the poets and writers in a film company environment.</p> <p>To enable the students to</p> <p>i) understand the critical</p>	Slogan Writing	Lecture & discussion method	<p>Students will be able to</p> <p>ii) get acquainted with the legal vocabulary</p> <p>ii) understand the role of a leader</p> <p>iii) understand the importance of rights</p> <p>know the sufferings and contributions of freedom fighters.</p> <p>Students will be able to-</p> <p>-analyse the working conditions and people involved in the studios.</p> <p>-understand that there was a great deal of national integration.</p> <p>-understand the use of talent and creativity at its best.</p> <p>-analyse that good poetry and music are the deciding factor in the popularity of the film.</p> <p>Students will be able</p>

		<p>appreciation of the poem based on rhyme, content, theme, genre, literary elements</p> <p>ii) identify the figures of speech used in the poem</p> <p>iii) appreciate the beauty of language</p> <p>To enable the students Conceptual Understanding, application of rules, Analysis, Reasoning, appropriacy of style and tone, using appropriate format and fluency, inference, analysis, evaluation and creativity.</p>			<p>1. to understand the critical appreciation of the poem</p> <p>2. to understand that beauty dwells inside us and gives us happiness</p> <p>3. to appreciate and admire the beauty of nature</p> <p>Students will be able to-</p> <p>Recall the format and express themselves creatively, develop fluency and Critical Thinking.</p>
August	<p>Flamingo:Ch.7 - Interview</p> <p>Poem: Aunt Jennifer's Tigers</p> <p>Vistas: Ch.8</p> <p>Memories Of Childhood</p> <p>Writing Skill:Article Writing</p>	<p>To enable the students to</p> <p>i) understand interview as communication genre</p> <p>ii) enjoy an excerpt from an interview with an author iii)express personal opinion on the interview genre</p> <p>iv) know the opinions of eminent people about interview</p> <p>To enable the students to</p> <p>i) understand the critical appreciation of the poem based on rhyme, content, theme, genre and literary elements</p> <p>ii) appreciate the beauty of language and understand the rhyme scheme</p> <p>iii) know about the poet and his work/genre</p> <p>iv) visualise the constraint of married life experienced by a woman.</p> <p>To enable the students to-</p>	<p>Preparation of Questionnaire for the project.</p>	<p>Lecture & discussion method</p>	<p>To enable the students to</p> <p>iii) understand interview as communication genre</p> <p>iv) enjoy an excerpt from an interview with an author</p> <p>iii)express personal opinion on the interview genre</p> <p>v) know the opinions of eminent people about interview</p> <p>understand that the interview holds a position of unprecedented power and influence.</p> <p>Students will be able to-</p> <p>i) understand the critical appreciation of the poem</p> <p>ii) understand that man and woman are equal</p>

		<p>i) have profound and detailed understanding of the text. ii) express the ideas of the passage orally and in writing. iii) understand the meaning of new words and grammar structure pay attention to the writer’s intentions, arguments, ideas, style etc.</p> <p>To enable the students Conceptual Understanding, application of rules, Analysis, Reasoning, appropriacy of style and tone, using appropriate format and fluency, inference, analysis, evaluation and creativity.</p>			<p>iii) empathise with the victims of male chauvinism iv) be prepared to face such oppressions boldly v) raise voice against domestic violence</p> <p>Students will be able to-</p> <p>i) comprehend the text in detail ii) know the meaning and usage of new vocabulary iii) learn how to respect people from different culture iv) voice for injustice and discrimination.</p> <p>Students will be able to- Recall the format and express themselves creatively, develop fluency and Critical Thinking.</p>
September	Poem: A Roadside Stand	<p>To enable the students to</p> <p>i) read with proper voice intonation and pauses. ii) comprehend the poem and enhance the vocabulary iii) identify the figures of speech. iv) understand the problems of rural folks know about the sufferings of people managing the roadside stand</p>		Lecture & discussion method	<p>Students will be able to</p> <p>i) understand the contrast between the lives of rich and poor ii) acquaint themselves with the world around them iii) learn not only from books but from the examples around them. iv) comprehend the poem and enhance the vocabulary.</p>

October	Flamingo: Ch.8 - Going Places Writing Skill:Job Application	<p>To enable the students</p> <ul style="list-style-type: none"> i) to understand that hard work is required to dream ii) to differentiate between unrealistic and realistic dreams iii) to understand that fantasizing can lead to failure <p>to understand the complexities of human relationships among different members of a family</p> <p>To enable the students Conceptual Understanding, application of rules, Analysis, Reasoning, appropriacy of style and tone, using appropriate format and fluency, inference, analysis, evaluation and creativity.</p>		Lecture & discussion method	<p>Students will be able</p> <ul style="list-style-type: none"> i) to analyse the difference between realistic and unrealistic dreams ii) to compare their world of fantasy and reality iii) to understand that there is no substitute to hard work iv) to accept the reality in life and responsibility in the family <p>Students will be able to-</p> <p>Recall the format and express themselves creatively, develop fluency and Critical Thinking.</p>
November	REVISION for Pre board Exams	To prepare students for the upcoming exams.	Discussion, doubts session and question answer method		students will be able to perform better in their exams,

					will learn and build problem solving skills and competency.
December	REVISION for Pre board Exams	To prepare students for the upcoming exams.	Discussion, doubts session and question answer method		students will be able to perform better in their exams, will learn and build problem solving skills and competency.
January	REVISION for Pre board Exams	To prepare students for the upcoming exams.	Discussion, doubts session and question answer method		students will be able to perform better in their exams, will learn and build problem solving skills and competency.
February	REVISION for CBSE board Exams	To prepare students for the upcoming exams.	Discussion, doubts session and question answer method		students will be able to perform better in their exams, will learn and build problem solving skills and competency.

Weekly test and termwise syllabus

Weekly Test 1

11/04/2023 Tuesday

L-1 Flamingo, Invitations & Reading Comprehension passage

Weekly Test 2 25/07/2023 Tuesday

Ch-1,2,3,4 Flamingo

Ch- 1,2&3 Vistas

Poem My mother at sixty six, Keeping quit

Writing- invitations, notice writing and letter to editor.

Term 1-

Term 1 11/09/2023 Friday

Course completed till 05/09/23

Pre Board I Exam 25/10/23 to 10/11/23

Complete course

Pre Board II Exam 20/11/23 to 06/12/23

Complete Syllabus

Pre Board III Exam 15/12/23 to 29/12/23

Complete Syllabus

Pre Board IV Exam 08/01/24 to 22/01/24

Complete Syllabus

Pre Board V Exam 02/02/24 to 16/02/24 Complete Syllabus



Annual Curriculum (2023-24)
GRADE - XII
SUBJECT- BIOLOGY

Book prescribed :NCERT-BIOLOGY.
 :NCERT EXEMPLER

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of teaching /Art of teaching	Learning Outcome
March	Ch-2: Sexual Reproduction in Flowering Plants	Students will be able to able to identify the major organs of a flower, and their function, describe how the flower forms pollen grains and ovules, describe the processes of self- and cross-pollination, describe the stages of fertilization, outline the process of fruit and seed formation.	Pollen germination on stigma through a permanent slide	Lecture method with questionnaire Practical will be conducted.	Most of the Students were able to to identify the major organs of a flower, and their function, describe how the flower forms pollen grains and ovules, describe the processes of self- and cross-pollination, describe the stages of fertilization, outline the process of fruit and seed formation.
April	Ch-3: Human Reproduction	Students will be able to: identify the different parts of the male and female reproductive system. Students will define the functions of the different parts of the	Prepare a temporary mount to observe pollen germination. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of	Lecture method , Inquiry based learning, Permanent Slides will be shown. Animated images, Ray diagram	Most of the Students were able to: Students will be able to identify the different parts of the male and female reproductive system. Students will define the

		male and female reproductive system. Students will describe the fertilization process. Students will identify the requirements for pregnancy to occur.	ovary through permanent slides (from grasshopper/mice). T.S. of blastula through permanent slides (Mammalian) Meiosis in onion bud cell or grasshopper testis through permanent slides.	,Labeled diagram will be shown.	functions of the different parts of the male and female reproductive system. Students will describe the fertilization process. Students will identify the requirements for pregnancy to occur.
	Ch-4:ReproductiveHealth	Students will be able to : To make quality maternal and reproductive health services accessible to the people living in rural areas. To enhance the prevention of diseases that might affect maternal health.	Art Integrated Project on Reproductive Health	Flipped Learning.	Most of the Students were able to: To make quality maternal and reproductive health services accessible to the people living in rural areas. To enhance the prevention of diseases that might affect maternal health.
May	UNIT – VII, GENETICS AND EVOLUTION Ch-5: Principles of Inheritance and Variation. Ch-7: Evolution	Students will be able to Understand the principles of Mendelian inheritance. Know the definition and significance of alleles .	Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood	Lecture method with questionnaire. Team –Based learning Animated images, Ray diagram ,Labeled diagram will be shown.	Most of the Students were able to : Understand the principles of Mendelian inheritance. Know the definition and significance of alleles .

		Understand the various types of non-Mendelian inheritance. Understand the inheritance patterns of sex-linked genetic diseases in humans.			Understand the various types of non-Mendelian inheritance. Understand the inheritance patterns of sex-linked genetic diseases in humans.
July	UNIT – VII, GENETICS AND EVOLUTION Ch-6: Molecular Basis of Inheritance.	Students will be able to: Molecular basis of inheritance involves the study of genes, genetic variations and heredity. It explains how an offspring looks similar to the parents. DNA, RNA and genetic code form the basis of the molecular basis of inheritance. They transmit the hereditary genes from the parents to the offspring	DNA Model For Art Integrated Project.	Lecture method with questionnaire Animated images, Ray diagram ,Labeled diagram will be shown.	Most of the Students were able to: Molecular basis of inheritance involves the study of genes, genetic variations and heredity. It explains how an offspring looks similar to the parents. DNA, RNA and genetic code form the basis of the molecular basis of inheritance. They transmit the hereditary genes from the parents to the offspring
	Ch-13: Organisms and Populations.	Students will be able to: Know and calculation, different attributes of a about population its determination population, etc.	Models specimen showing symbolic association in root modules of leguminous plants, Cuscuta on host, lichens.	Lecture method with questionnaire Animated images, Ray diagram ,Labeled diagram will be shown.	Most of the Students were able to: Know and calculation, different attributes of a about population its determination population, etc.
	Ch-8: Human Health and Diseases	Students will be able to:	Common disease causing organisms		Most of the Students were able to:

		Detailed explanations for important concepts like Common Diseases, Allergies, Immunity, its types.	like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause.		Detailed explanations for important concepts like Common Diseases, Allergies, Immunity, its types.
August	UNIT-VIII BIOLOGY AND HUMAN WELFARE Ch-10: Microbes in Human Welfare	Students will be able to: The microbes are highly useful for making vaccines and antibiotics for making medicines. It is a well-known fact that harmful pathogens that cause different diseases by infecting our body. The antibiotics and medicines would help us in fighting these diseases and infections.	PPT On Microbes in Human Welfare For Art Integrated Project	Lecture method with questionnaire Practical will be conducted. Permanent Slides will be shown. Animated images, Ray diagram ,Labeled diagram will be shown.	Most of the Students were able to: The microbes are highly useful for making vaccines and antibiotics for making medicines. It is a well-known fact that harmful pathogens that cause different diseases by infecting our body. The antibiotics and medicines would help us in fighting these diseases and infections
September	UNIT-X ECOLOGY AND ENVIRONMENT Ch-14: Ecosystem.	Students will be able to: Know the living and nonliving components that make up an ecosystem, Understand how energy flows through an ecosystem,Gain an understanding of how various nutrients are	PPT On Ecosystem for Art Integrated Project	Lecture method with questionnaire Practical will be conducted. Permanent Slides will be shown. Animated images, Ray diagram ,Labeled diagram will be shown.	Students were able to: Know the living and nonliving components that make up an ecosystem, Understand how energy flows through an ecosystem,Gain an understanding of how various nutrients are cycled through ecosystems, Understand the difference between

		<p>cycled through ecosystems, Understand the difference between ecosystems and biological communities, Learn about the factors that shape the nature of biological communities (e.g., climate and competition among organisms), Understand how the interactions among organisms within an ecosystem affect the stability of the ecosystem</p>			<p>ecosystems and biological communities, Learn about the factors that shape the nature of biological communities (e.g., climate and competition among organisms), Understand how the interactions among organisms within an ecosystem affect the stability of the ecosystem</p>
<p>October</p>	<p>Ch-15: Biodiversity and its Conservation</p> <p>UNIT-IX BIOTECHNOLOGY AND ITS APPLICATIONS</p>	<p>Students will be able to:</p> <p>To preserve the diversity of species. Sustainable utilization of species and ecosystem. To maintain life-supporting systems and essential ecological processes.</p> <p>Students will be able to: <i>Awareness about the history, present and future of biotechnology.</i></p>	<p>PPT On Biodiversity for Art Integrated Project</p> <p>Symposium On Biotechnology and its Applications</p>	<p>Lecture method with questionnaire Practical will be conducted. Permanent Slides will be shown. Animated images, Ray diagram ,Labeled diagram will be shown.</p>	<p>Most of the Students were able to:</p> <p>To preserve the diversity of species. Sustainable utilization of species and ecosystem. To maintain life-supporting systems and essential ecological processes</p> <p>Most of the Students were able to: <i>Awareness about the history, present and future</i></p>

	Ch-11: Biotechnology - Principles and processes	III) Tools and techniques ... The techniques of using live organisms or enzymes from organisms to produce products and <i>processes</i> useful to humans.			<i>of</i> biotechnology. III) Tools and techniques ... The techniques of using live organisms or enzymes from organisms to produce products and <i>processes</i> useful to humans.
November	Ch-12: Biotechnology and its Application.	Students will be able to: <i>therapeutics</i> , diagnostics, genetically modified crops for agriculture, processed food, bioremediation, waste	Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc. Prepare a temporary mount of onion root tip to study mitosis.	Lecture method with questionnaire Practical will be conducted. Permanent Slides will be shown. Animated images, Ray diagram , Labeled diagram will be shown.	Most of the Students were able to: <i>therapeutics</i> , diagnostics, genetically modified crops for agriculture, processed food, bioremediation, waste
December	Revision for Pre-Board				
January	Pre-Board				
February	Pre-Board				

Weekly Test1 11/04/23- 11/07/23

Weekly Test2 18/07/23-29/07/23

Half Yearly

Pre Board 1 25/10/23-10/11/23

Pre Board 2 20/11/23-6/12/23

Pre Board 3 15/12/23-29/12/23

Pre Board 4 8/01/24-22/01/24

Pre Board 5 02/02/24-16/02/24



Annual Curriculum (2023-24)
GRADE - XII
SUBJECT- MATHEMATICS

BOOK PRESCRIBED:

TEXT BOOK : MATHEMATICS (NCERT)
PRACTICE BOOK : PREVIOUS YEAR QUESTION CHAPERVISE (ARIHANT PUBICATION)
LAB MANUAL : FULL MARKS

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of teaching /Art of teaching	Learning Outcome
April	Ch- 3 MATRIX & CH- 4 DETERMINANT	Students will be able 1.To recall arrangement of numbers. 2. To know the concepts of rectangular expressions. 3.To represent a matrix. 3. To add/ subtract and multiply two matrices.	Art integrated activity using multiple information etc in matrix form easily.	Uses in daily life	Students will be able to construct a matrix. They will be able to add/ subtract & multiply matrices. They will be able to apply matrix solving word problems.

1- Ch-

Syllabus:

**Weekly Test
3 and 4**

2- Ch-2

Weekly Test
and 5

	Ch-2 Inverse Trigonometry	Students will be able 1.To recall Trigonometric Functions. 2. To find domain and rang of it. 3. To write principle range of Inverse Trigonometric functions.	Art integrated activity using colored sheets graph.	Teaching Inverse Trigonometry YouTube links will be share	Students will be able to find principle range of Inverse Trigonometric functions and identities of such functions.
May	Ch-5 Continuty and differentiability Ch-6 Application of Derivative.	Students will be able 1.To understand continuity of functions. 2. To check Continuty and differentiability of functions. 3. To find rate of change , Increasing/ decreasing function . 4. To find Max/ Min value of functions .	Art integrated activity using graph paper, colored pencils.	YouTube links will be share	Students will be able To understand and check Continuty and differentiability of functions at a point and in any intervals. They will find Max/ Min value of functions from word problems .
July	Chapter – (6)Applicati on of derivative	Students will be able 1.To understand dependent, independent and	Art integrated activity using graph paper, colored pencils, ruler, glue etc.	YouTube links will be share	Students will be able to solve questions of probabality,L.P.P and vectors.

Term –

I Exam - Ch-

	<p>Chapter – (13) Probability</p> <p>Chapter – (12) L.P.P</p> <p>Chapter – (10) Vector</p>	<p>condisional probability.</p> <p>2. To plot a graph of L.P.P and get max/min value.</p> <p>3. To understand vector quantity , dot and cross product of vectors</p>			
August	<p>Chapter – (11) Three Dimention Geometry</p> <p>Chapter – (7) Integration</p>	<p>Students will be able</p> <p>1.To recall coordinat geometry</p> <p>2. To recall derivative and it's anti derivative to find integration</p>	<p>Art integrated activity by showing videos.</p>	<p>YouTube link: Will be shared</p>	<p>Students will be able to find integration of different type of function.</p> <p>They will find equation of lines in vector and Cartesian form.</p>

September	CH-7 Integration Ch-8 Application of integration	Revision for Term-1 Exam. Students will be able 1.To recall graphical representation of different functions. Then find bounded area using integration	Art integrated activity by showing videos.	YouTube link: Will be shared	Students will be able to find definite integration of different type of function and apply it to find area bounded region.
October	CH-7 Integration(c ontinued) Ch-8 Application of integration	Students will be able 1.To recall graphical representation of different functions. Then find bounded area using integration	Art integrated activity by showing videos.	YouTube link: Will be shared	Students will be able to find definite integration of different type of function and apply it to find area bounded region.
November	Chapter – (9) Differential equation Chapter – (1) Relation & Function	Students will be able 1.To understand the formulas and solving of differential equations . 2. To understand types of relation and functions .	Art integrated activity using daily life examples and graph.	YouTube link: Will be shared	Students will be able to understand the equivalence relation . 2. To check any function is one one and onto.

Pre

Syllabus of Board – 1

December	Revision for pre board exam				
January	Revision for pre board exam				
February	Revision for pre board exam				

(Chapters 2,3,4,5,6,10,11,12,13 & 7)

Syllabus of Pre Board – 2,3,4&5 (All ch



SYLLABUS (2023-2024)

GRADE – XII

SUBJECT – COMPUTER SCIENCE 083

Weekly test and Term Wise Syllabus

Weekly Test 1

L-1,2,3

Weekly Test 2

Ch-1,2,3,4,5

Term 1

Course completed till 05/09/23

Pre Board I Exam 25/10/23 to 10/11/23

Complete course

**Pre Board II
20/11/23 to
Complete
Pre Board
15/12/23 to
Complete
Pre Board
08/01/24 to
Complete
Pre Board V
02/02/24 to
Complete**

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of teaching /Art of teaching	Learning Outcome/Observation by Teacher
March	Python Review-I	At the end of this chapter the students will be able to understand: <ul style="list-style-type: none"> ➤ Interactive Mode ➤ Script Mode ➤ Data Types ➤ Functions in Python ➤ Sequential Statement ➤ Selective Statements ➤ Looping Statements 	<ul style="list-style-type: none"> ➤ Hands on experience on computer lab. ➤ Assigned students will make different types of questions to discuss in the class. 	Warm up Activity: Class Discussion of the questions like; <ul style="list-style-type: none"> ➤ What is Python? How is the Python language different than the Python Interpreter? ➤ What are the functions in Python? ➤ How many data types are supported by Python? ➤ What is the difference between mutable & Practical Sessions/Lecture/Discussion 	.Students will be able to: <ul style="list-style-type: none"> ➤ Interactive Mode ➤ Script Mode ➤ Data Types ➤ Functions in Python ➤ Sequential Statement ➤ Selective Statements ➤ Looping Statements

**Exam
06/12/23
Syllabus
III Exam
29/12/23
Syllabus
IV Exam
22/01/24
Syllabus
Exam
16/02/24
Syllabus**

				<p>Important questions of the portion will be discussed thoroughly in the class.</p> <p>Quiz related to the chapter will be conducted to recap.</p>	
April	<p>Python Review-II</p> <p>Working with Function</p>	<p>At the end of this chapter the students will be able to understand:</p> <ul style="list-style-type: none"> ➤ String and String Methods ➤ List and List Methods ➤ Tuple and Tuple Methods ➤ Dictionary and Dictionary Methods <p>At the end of this chapter the students will be able to understand:</p>	<ul style="list-style-type: none"> ➤ Hands on experience on computer lab. 	<p>Warm up Activity: Class Discussion of the questions like;</p> <ul style="list-style-type: none"> ➤ What is the difference between Strings, lists, tuples & dictionary? <p>• Warm up Activity: Class Discussion of the questions like;</p>	<p>Students will be able to understand:</p> <ul style="list-style-type: none"> ➤ String and String Methods ➤ List and List Methods ➤ Tuple and Tuple Methods ➤ Dictionary and Dictionary Methods <p>Students will be able to understand:</p> <ul style="list-style-type: none"> ➤ Understand the need of function. ➤ Develop programs based on functions ➤ Differentiate between different types of function arguments

		<ul style="list-style-type: none"> ➤ What are Functions? ➤ Need of functions ➤ User Defined Functions ➤ Working with functions ➤ Calling functions ➤ Default arguments <p>Scope of a Variable Python Standard Library</p>	<p>Students will make different types of programs based on functions on Computer System.</p>	<ul style="list-style-type: none"> ➤ Is it better to do all the task together or break in into subtasks ➤ What is the advantage of dividing a task into subtasks <ul style="list-style-type: none"> • Lecture method • Practical Sessions • Related Videos will be shown to the students 	<ul style="list-style-type: none"> ➤ Understand scope rule & know the scope of the function
May	File Handling Using Python Libraries, Exception Handling	<p>At the end of this chapter the students will be able to understand:</p> <ul style="list-style-type: none"> ➤ Understand the importance of data file for permanent storage of data 	<ul style="list-style-type: none"> ➤ Hands on experience on computer lab. <p>Students will make different types of programs based on</p>	<p>Warm up Activity: Class Discussion of the questions like;</p> <ul style="list-style-type: none"> ➤ What is the need of storing Data? ➤ How have you stored data earlier? ➤ How the files are stored in Word, Excel etc. 	<p>Students will be able to:</p> <ul style="list-style-type: none"> ➤ Understand the importance of data file for permanent storage of data ➤ file Open and close a file (text and binary) ➤ Read and write data in file

		<ul style="list-style-type: none"> ➤ Understand how standard Input/Output function work ➤ Distinguish between text and binary ➤ file Open and close a file (text and binary) ➤ Read and write data in file, Write programs that manipulate data file(s) 	<p>Binary file & Text File on computer system & execute them</p>	<ul style="list-style-type: none"> ➤ What is a Data File? <ul style="list-style-type: none"> • Lecture method • Practical Sessions • Related Videos will be shown to the studentson theuse of files for data storage. • Important questions of the portion will be discussed thoroughly in the class. • Online MCQs Quiz related to the chapter will be conducted to recap in the lab. 	
July	Stack	<p>Students will be able to</p> <ul style="list-style-type: none"> ➤ Understand Data Structure ➤ Perform Stack operations (push & pop), 	<p>Lab Practical Practice the SQL commands using:</p> <ul style="list-style-type: none"> ➤ Creation of Stack 	<p>Warm up Activity: Class Discussion of the questions like;</p> <ul style="list-style-type: none"> • How will to put books in a box? • Where the insertion & deletion of books in the box is being performed? 	<p>Students will be able to Create stack & perform Push & Pop operations on it</p>

	<p>Relational Data Base</p>	<p>➤ Implement stack using list.</p> <p>.</p> <p>At the end of this chapter the students will be able to understand:</p> <ul style="list-style-type: none"> ➤ What is DBMS? ➤ What is relational database model? ➤ Relation Tuples SQL DDL ➤ DML 	<p>Perform Push & Pop operations on Stack</p> <p>Case Study:</p> <ul style="list-style-type: none"> ➤ Students are given task to collect the sample database easily available on internet of various organizations 	<ul style="list-style-type: none"> • Which book is removed first- the first one inserted in box or the last one? • Live development of program based on Stack using List • Related videos will be shared with the students for revision <p>➤ Warm up Activity: Class Discussion of the questions like;</p> <ul style="list-style-type: none"> ➤ What is data? ➤ What are the advantages of computerized record keeping system over manual system? 	<p>Students will be able to understand:</p> <ul style="list-style-type: none"> ➤ What is DBMS? ➤ What is relational database model? ➤ Usage of Database in real life ➤ Relation Tuples SQL DDL ➤ DML ➤ Relational Algebra
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	<p>Simple queries in SQL</p>	<ul style="list-style-type: none"> ➤ Relational Algebra ➤ Selection, Projection, Union Cartesian Product <p>At the end of this chapter the students will be able to understand:</p> <ul style="list-style-type: none"> ➤ What is SQL? ➤ Need for SQL ➤ How to create tables in SQL? 	<p>like School, Offices, Hospital, Hotel etc.</p> <p>Discover the advantage of computerized record keeping system over manual system.</p> <p>Lab Practical</p> <p>Practice the following SQL commands:</p> <ul style="list-style-type: none"> ➤ SELECT ... FROM...WHERE (with aggregate functions) 	<ul style="list-style-type: none"> ➤ How the data is organized in various database system?. ➤ Related videos will be shared with the students on Database Management system. ➤ Important questions of the portion will be discussed thoroughly in the class. ➤ Quiz related to the chapter will be conducted to recap. <p>Warm up Activity: Class Discussion of the questions like;</p> <ul style="list-style-type: none"> ➤ What is database? ➤ What is RDBMS? 	<p>Students will be able to understand:</p> <ul style="list-style-type: none"> ➤ What is SQL? ➤ Need for SQL ➤ Create table in SQL. ➤ Identify Primary key, candidate, alternate keys & foreign keys in table ➤ Perform various operations like Select, Insert, Delete, update Drop on SQL tables.
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		<ul style="list-style-type: none">➤ How to add information to tables?➤ SELECT ... FROM...WHERE (with aggregate functions)		<ul style="list-style-type: none">➤ What is the difference between DDL & DML commands?➤ Demonstration of SQL commands with various clauses will be given/➤ Important questions of the portion will be discussed thoroughly in the class.➤ Quiz related to the chapter will be conducted to recap.➤ Topic wise revision will be done in the class, simultaneously doubts of the students with the help of presentations, google and class tests (oral and written) will be completed thoroughly.	
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August	Creation & Data Manipulation Commands	At the end of this chapter the students will be able to : <ul style="list-style-type: none"> ➤ Create Database Table ➤ Apply Different constraints in the table ➤ Insert values in the table 	Lab Practical Practice the SQL commands using: <ul style="list-style-type: none"> ➤ Aggregate functions (max, min, avg, sum, count) 	Warm up Activity: Class Discussion of the questions like; <ul style="list-style-type: none"> ➤ What is SQL? ➤ What are various SQL commands & their syntax? ➤ Demonstration of SQL commands with various clauses done previously. 	
	Grouping Records & Joins in SQL	<ul style="list-style-type: none"> ➤ group by, having clause ➤ Joining of two tables 	<ul style="list-style-type: none"> ➤ group by, having clause 		
September	Interface Python with MySQL	At the end of this chapter the	➤ Develop programs based on	➤ Live development of program based on Python-SQL	Students will be able to: <ul style="list-style-type: none"> ➤ Execute Python-SQL connectivity

		<p>students will be able to :</p> <ul style="list-style-type: none">➤ Execute Python-SQL connectivity➤ Perform various SQL commands through Python	<p>Python-SQL connectivity</p> <ul style="list-style-type: none">➤ Perform Insert, Delete, Update, Select clauses through Python	<p>connectivity & execution of all SQL commands through Python</p> <ul style="list-style-type: none">➤ Related videos will be shared with the students for revision➤ Important questions of the portion will be discussed thoroughly in the class.➤ Quiz related to the chapters will be conducted to recap. <p>Topic wise revision will be done in the class, simultaneously doubts of the students with the help of presentations, google and class tests (oral and written) will be completed thoroughly.</p>	<ul style="list-style-type: none">➤ Perform various SQL commands through Python➤ Create database connectivity applications
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		<ul style="list-style-type: none"> ➤ know & recognize various network devices ➤ Understand various network protocols ➤ Understand various networking terms & Concepts 		<ul style="list-style-type: none"> ➤ Important questions of the portion will be discussed thoroughly in the class. ➤ Quiz related to the chapter will be conducted to recap 	
November	REVISION for Pre board Exams	To prepare students for the upcoming exams.	Discussion, doubts session and question answer method		Students will be able to perform better in their exams, will learn and build problem solving skills and competency.
December	REVISION for Pre board Exams	To prepare students for the upcoming exams.	Discussion, doubts session and question answer method		Students will be able to perform better in their exams, will learn and build problem solving skills and competency.
January	REVISION for Pre board Exams	To prepare students for the upcoming exams.	Discussion, doubts session and question answer method		Students will be able to perform better in their exams, will learn and build problem solving skills and competency.

February	REVISION for CBSE board Exams	To prepare students for the upcoming exams.	Discussion, doubts session and question answer method		Students will be able to perform better in their exams, will learn and build problem solving skills and competency.
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Annual Curriculum (2023-24)
GRADE – XII
SUBJECT- PAINTING

Book prescribed: NA

Month	Topic	Objectives	Art Integration/ Experiential learning	Methodology of teaching /Art of teaching	Learning Outcome
March	Practical : Object Study / Nature Study	Object study and nature study develop technical skills, refine artistic vision, and deepen understanding of form, texture, color, and composition.		Demonstrative, and Practical Method	Students will be able to know about the study of objects in watercolour or poster colour from a fixed point of view. It develops artistic skills and an understanding of the natural world.
April	Theory Chapter-1 Ch1 : 1. The Rajasthani School of Miniature Painting Ch-1. 2. : The Pahari School of Miniature Painting	Allowing students to better understand the Rajasthan and the western Himalayan Region and its social, political, and artistic approach. By studying artworks from different schools and styles, students learn to recognize	Visit of Nation Museum to appreciate the original miniature paintings	Lecture & Interactive method through PPT,	Students will be able to know about the history of Rajasthan and the western Himalayan Region; origin and development and the main features of Rajasthani and Pahari schools of miniature paintings along with seven major paintings from different sub-schools.

	Practical : Object Study / Nature Study	<p>the formal elements of those paintings.</p> <p>Object study and nature study develop technical skills, refine artistic vision, and deepen understanding of form, texture, color, and composition.</p>		Demonstrative, and Practical Method	Students will be able to know about the study of objects in watercolour or poster colour from a fixed point of view. It develops artistic skills and an understanding of the natural world.
May	<p>Theory Chapter-2 Ch-2. : 1. The Mughal School of Miniature Painting Ch-2. : 2. The Deccan School of Miniature Painting</p> <p>Practical : Landscape painting</p>	<p>Allowing students to better understand the Mughal Dynasty and the Deccan Region and its social, political, and artistic approach. By studying artworks from different schools and styles, students learn to recognize the formal elements of those paintings.</p> <p>Landscape painting captures the beauty, mood, and essence of a nature, students exploring the relationship between humans and nature and experimenting with different techniques and styles.</p>	<p>Making of a Miniature Painting.</p> <p>Visit of Nation Museum to appreciate the original miniature paintings</p>	Lecture & Interactive method through PPT	<p>Students will be able to know about the history of Mughal Dynasty and the Deccan Region; origin and development and the main features of Mughal and Deccan schools of miniature paintings along with six major paintings from different sub-schools.</p> <p>Students will be able to know to draw landscape painting in watercolour or poster colour. It develops artistic skills and an understanding of the natural world.</p>

<p>July</p>	<p>Theory Chapter-3 Ch-3. : 1. New Era in Indian Art Ch-3. : 2. The Bengal School of Painting</p> <p>Practical : Painting Composition</p>	<p>Allowing students to better understand the New Era in Indian Art, The Bengal School of Painting and the contribution of Indian artists in the National Freedom movement. By studying artworks from Bengal school artists, students learn to recognize the elements of those paintings.</p> <p>To enable the student's imagination, and sense of composition of painting which represents different natural elements with human figures, conveying emotion, creating a sense of space and experimenting with different art elements.</p>	<p>Film screening on Master artists of Bengal school</p> <p>Visit of Nation Gallery of Modern Art to appreciate the</p>	<p>Lecture & Interactive method through PPT</p> <p>Demonstrative, and Practical Method</p>	<p>Students will be able to know about the history of the Indian freedom movement and the contribution of artists; the technique of Bengal artists and the main features of Bengal schools of paintings along with four major paintings.</p> <p>Students will be able to know to create figurative composition painting in watercolour or poster colour from their imagination and creative skills. It develops artistic skills and an understanding of the natural world.</p>
<p>August</p>	<p>Theory Chapter-4 Ch-4. : 1. The Modern Trends in Indian Art Introduction Study of Paintings, Graphic Prints & Sculptures</p>	<p>To enable the students to better understand the Modern Trends in Indian Art and different techniques used to create modern Paintings, Graphic Prints & Sculptures. By studying artworks from the Modern era, students learn to recognize the art</p>	<p>Film screening on Master artists of the Modern era</p> <p>Visit of Nation Gallery of Modern Art to appreciate the</p>	<p>Lecture & Interactive method through PPT</p>	<p>Students will be able to know about the Modern Trends in Indian Art and different techniques used to create modern Paintings, Graphic Prints & Sculptures.</p>

	Practical : Object Study/Painting Composition	works To enable the student's imagination, and sense of composition of painting which represents different natural elements with human figures, conveying emotion, creating a sense of space and experimenting with different art elements.	Modern Art works	Demonstrative, and Practical Method	Students will be able to know to create figurative composition painting in watercolour or poster colour from their imagination and creative skills. It develops artistic skills and an understanding of the natural world.
September	Theory : Revision Practical : Object Study/Painting Composition	To prepare students for the upcoming exams. To enable the student's imagination, and sense of composition of painting which represents different natural elements with human figures, conveying emotion, creating a sense of space and experimenting with different art elements.	Quizzing	Discussion and question-answer method Demonstrative, and Practical Method	Students will be able to perform better in their exams; learn and build problem-solving skills and abilities. Students will be able to know to create figurative composition painting in watercolour or poster colour from their imagination and creative skills. It develops artistic skills and an understanding of the natural world.
October	Theory : Revision	To prepare students for the upcoming exams.		Discussion and question-answer method	Students will be able to perform better in their exams; learn and build problem-solving skills and abilities.

	Practical : Object Study/Painting Composition	To enable the student's imagination, and sense of composition of painting which represents different natural elements with human figures, conveying emotion, creating a sense of space and experimenting with different art elements.		Demonstrative, and Practical Method	Students will be able to know to create figurative composition painting in watercolour or poster colour from their imagination and creative skills. It develops artistic skills and an understanding of the natural world.
November	Theory : Revision Practical : Oil Painting / Acrylic Painting on canvas	To prepare students for the upcoming exams. To enable the student's imagination, and sense of composition of painting which represents different natural elements, creating a sense of space and experimenting with oil and acrylic colours on canvas.		Discussion and question-answer method Demonstrative, and Practical Method	Students will be able to perform better in their exams; learn and build problem-solving skills and abilities. Students will be able to know to create composition painting in oil colour or acrylic colour from their imagination and creative skills. It develops artistic skills and an understanding of the colour application skills.
December	Theory : Revision	To prepare students for the upcoming exams.		Discussion and question-answer method	Students will be able to perform better in their exams; learn and build problem-solving skills and abilities.

	Practical : Oil Painting / Acrylic Painting on canvas	To enable the student's imagination, and sense of composition of painting which represents different natural elements, creating a sense of space and experimenting with oil and acrylic colours on canvas.		Demonstrative, and Practical Method	Students will be able to know to create composition painting in oil colour or acrylic colour from their imagination and creative skills. It develops artistic skills and an understanding of the colour application skills.
January	Theory : Revision Practical : Portfolio Preparation	To prepare students for the upcoming exams.		Discussion and question-answer method	Students will be able to perform better in their exams; learn and build problem-solving skills and abilities.
February	Revision & Board Exams				

Weekly Test1	7/11/2023	Chapter 1 & 2.1
Weekly Test2	8/29/2023	Chapter 2.2 & 3
Terminal Exam 1	9/22/2023	Chapter 1, 2 & 3
Pre Board 1	11/8/2023	Full Syllabus
Pre Board 2	11/30/2023	Full Syllabus
Pre Board 3	12/29/2023	Full Syllabus
Pre Board 4	1/19/2024	Full Syllabus
Pre Board 5	2/14/2024	Full Syllabus