

TERM AND MONTH-WISE SPLIT-UP SYLLABI OF CLASS – XII FOR THE SESSION 2025-2026

SUBJECT: ENGLISH (LANGUAGE AND LITERATURE)

Textbook: 1. Flamingo 2. Vistas

Month	W D	Chapter/ Sub- Topics	Learning Objectives	Key Terms and Concept	Art Integration	Inclusive Teaching	Project / Practical	Research Work Blended Learning	Smart Board Activity	Competency Based Activity Learning	Learning Outcomes
APRIL	24	PROSE THE LAST LESSON (Flamingo)	1.Appreciation for Language and Culture. 2. Impact of Political Situations 3. Patriotism and Resistance 4. Linguistic Chauvinism.	The lesson wonderfully captures the human tendency to put off learning new things because they believe they have lots of time, yet they have no idea when doomsday will arrive and put an end to our ambitions and dreams. *Loss of Language as Loss of Identity, Regret and Self-Reflection etc	Group Discussion – Importance of our mother tongue in our daily life.	1. Patriotism and Nationalism 2. Education and Knowledge 3. Historical content. 4. Real world connection	Create a short film based on the story, using visual elements to capture the emotions and events of the story	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *Animation, *PPT Slides, *YouTube link, *Web series*Video game *etc., ...	Will present an activity based on "Would You Rather" questions related to the story, such as "Would you rather learn French or German?" to spark discussion and critical thinking.	Group discussion based on language chauvinism.	Students will experience emotional connection with their own culture and language.

		POEM My Mother at 66 (Flamingo)	Learning objectives could include analyzing themes of aging, mortality, and the mother-daughter relationship, identifying poetic devices, and understanding the emotional impact of the poem.	Poem portrays the emotional bond between a daughter and her mother. The poem depicts the daughter's concern for her aging mother and her realization that time is fleeting. The main idea of the poem is the inevitability of aging and the importance of cherishing the moments spent with loved ones.	Draw the family tree of your family along with their photographs.	Relate the poem to personal experiences and frame a story	Write down the problems faced by your grandparents. What will be the solution to those problems.	SECRET OF HAPPY RELATIONSHIP	Question Practice	Group discussion on the topic "Importance of Family"	Students will feel the importance of their parents.
		PROSE Lost Spring (Flamingo)	Understanding the theme of poverty, acceptance, desire etc.	The story shows the devastating condition of poor children. Due to poverty they have to shatter their dreams and work to earn breads. This story revolves around children showcasing exploitation, poverty, compulsion, simplicity, dream etc.	Express the problems faced by the ragpickers with the help of a drawing. Use your drawing to express your words during group discussion.	A project based on promoting empathy and understanding towards marginalized communities.	Government has brought many schemes to bring children to schools. Make a project based on these schemes. Do mention the constitutional rights for children.	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *Animation, *PPT Slides, *YouTube link, *Web series *Video game *etc., ...	A short story based on the theme of the story.	Make any one project which clearly defines the theme of the story and message given by the author.	Students will feel empathy towards the children who are not able to go to schools due to family or financial problems.
		PROSE The Third Level (Vistas)	1. To accept the real world. 2. Enhance Literary Appreciation. 3. To understand the theme of Escapism, Nostalgia etc.	The life of modern man is full of insecurity, stress and worries and he is unable to cope with these challenges of modern life. Charley faces the same and he is the mainstay of the story. He was frustrated with his daily life and wanted to live a harmonious life. One day he found himself in a place which he fantasises. It was an	Everyone has problems in their life. You are one of those people. Express your feelings through the help of a poem.	Focus on engaging all students through diverse learning styles, providing accessible materials, and fostering a supportive classroom environment that	Writer has left the readers in the middle of the story. Complete this story in your own word. Show what Charlie will do after reading the letter in first day cover of Sam.	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *Animation, *PPT Slides, *YouTube link, *Web series *Video game *etc., ...	Question Practice	Story telling in the classroom based on the theme of the chapter.	Students will be able to identify and interpret symbols in the story, such as the Third Level itself, representing a different time period (the past) that Charley

				escape for Charlie from the complexities and stresses of modern life by seeking refuge in a simpler, more peaceful past. It was "The Third Level".		celebrates individual strengths and needs.					wishes to escape to, as well as the railway station and its connection to time travel.
		PROSE The Tiger King (Vistas)	Students will know about themes such as arrogance, pride, and the consequences of excessive power.	Author Kalki has used Humour, Irony and Suspense in the story. Story explores the theme of cruelty and ignorance by leaders towards their kingdom and people. The author uses political satire to reveal the true nature of politicians and those in power. The story of The Tiger King spans the life of Maharaja Sir Jilani Jung Bahadur of Pratibandapuram, from his birth to his death.	Make a short video on wild life. Also make a Presentation on 'NATIONAL ANIMAL OF INDIA' (Power Point Presentation)	Draft a report on Tiger Census till 2024. Mention the threats which are the reasons for decreasing the number of tigers in our country. Use graphs/	Write about the first Tiger Project in India. Mention the reasons for starting project tiger in India.	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *Animation, *PPT Slides, *YouTube link, *Web series *Video game *etc., ...	Question Practice	Draw a bar graph which shows the number of tiger from year 2010 to 2024.	Students will know about the cruelty faced by animals and will work positively.
		Business letter – Job application	Writing Skills	To make students learn to write business letters in appropriate formal language, precise form and content pertaining to various situations. They will learn to express their demands/needs in polite and formal manner.	To make students write letters to different organisation applying for job.	Writing Applications	Creative Writing	Writing application against different vacancies.	Question Practice	Job Application	Students will know to write applications.

MAY	8	PROSE Deep Water (Flamingo)	To make students remove the fear from their life and to make students about the theme of the story.	Through the help of the story writer wants to convey us that we can overcome our deep seated fear. In the story author had fear of water and he overcome his fear with determination, courage, and resilience in facing personal challenges	What is the role of a river in a country? Write the name of any 5 Perennial rivers in India. Write down the origin and mouth of that river.	Make the list of the incidents which terrorized you during your childhood phase of life. How did you overcome that fear.	Indite a story about your first experience in any water body. What problem you had faced and how you solved those problems.	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *Animation, *PPT Slides, *YouTube link, *Web series *Video game *etc., ...	Question Practice	Write about the different types of Swimming styles.	Students will know that they should not destroy their life in fear of something but should fight against that fear.
		Notice Writing	Writing Skills	Notice writing is a formal means of communication and its main purpose is to bring a certain piece of information to the notice of a group of people. They are pinned in a particular spot where the concerned people can read the notice.	Collecting Government notices from the newspapers	Writing notice on various topics.	Notice Writing Worksheet	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *Animation, *PPT Slides, *YouTube link, *Web series *Video game *etc., ...	Question Practice	Notice Writing	Students will know to write notice.
JUNE	14	PROSE The Rattrap (Flamingo)	To recognize the central idea that the world is like a rattrap, full of temptations and traps.	An unnamed paddler is the main character of the story who sells rattraps as a series of traps designed to deceive people. Rattrap is used as a metaphor in the story which represents the allure of material things and the potential for downfall when one is solely focused on personal gain. Redemption, compassion, human nature, the possibility of	Choose any one barbaric, cruel ruler/leader from the past. What cruelty he had shown during his rule? Should he be given another chance to rule? Support your answer.	students will make a rattrap model and discuss how it symbolizes human life.	Write an article on the topic "every one is trapped within its own boundaries."	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *Animation, *PPT Slides, *YouTube link, *Web series *Video game *etc., ...	Question Practice	Discuss how judgment and kindness affect people from different social backgrounds.	Students will understand the theme of the chapter properly

				change, and the importance of connection are the theme of the story.							
		PROSE Indigo (Flamingo)	To know about the problems faced by Indians during British Rule. Students will be able to know that they are self sufficient to fight any social illness.	Mahatma Gandhi played a very important role in freedom of India. He first revolted against Britishers in Champaran District of Bihar. Louis Fischer met Gandhi in 1942 at his ashram in Sevagram. Gandhi told him that how he initiated the departure of the British from India. He recalled that it in 1917 at the request of Rajkumar Shukla, a sharecropper from Champaran, he visited the place. He made peasants free from Indigo Farming.	Make a ppt on Gandhi's series of event after coming back to India.	Write down the role of Mahatma Gandhi in Indian National Movement.	Write biography of Mahatma Gandhi.	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *Animation, *PPT Slides, *YouTube link, *Web series *Video game *etc., ...	Question Practice	Why do you think Mahatma Gandhi came back to India after completing his degree? Was there hunger for power or something else? Discuss.	Students will understand the theme of the chapter properly and will not wait for any other personality to solve their problem.
		POEM Keeping Quiet (Flamingo)	To Understand the contrast between materialism and human kindness.	'Keeping Quiet' is a poem written by Pablo Neruda. Theme of the poem revolves around the importance of introspection, peace, and the need for silence in a chaotic world. By advocating for collective silence, poet implies that taking a moment to reflect together can foster greater empathy and understanding among people.	Students are asked to keep quiet in the class for ten minutes after every period. On the basis of this students will write about the changes that they felt that day when compared to any other days.	create a visual collage representing the poem's message about peace and stillness. Present the work and explain how it connects to the poem's deeper meaning.	Group discussion on the topic "WAR-A DEMAND OR COMPULSION"	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *Animation, *PPT Slides, *YouTube link, *Web series *Video game *etc., ...	Question Practice	A judgment-free space will be created where students can share personal interpretations of the poem. Students will listen to each other's perspectives with respect and openness.	To understand the theme of the Poem

		POEM A Thing of Beauty (Flamingo)	To appreciate the things around us.	The poem 'A Thing of Beauty' is poem written by Jhon Keats. The Poem gives a message that beauty never diminishes or fades. We can choose to see beauty in the most simple and common things around us. This poem mainly focuses on motivating the reader and filling them with the hope of living their lives happily. It delivers the message about the presence of the things of beauty in this world.	Draw the picture of most beautiful thing according to you.	Write down the name of the things which feels soothing to you. Also mention the reasons.	Write down the names of beautiful things around you, also mention why those things seem beautiful to you?	EXPLORING NATURE, BEAUTY OF NATURE.	Question Practice	Write down the names of seven wonders of the world.	Students will learn that everything in nature is beautiful
JULY	26	PROSE Journey to the end of the World (Vistas)	To understand the fragile balance of nature and how human interference affects it.	Climate Change, Human Impact, Exploration and Discovery, Nature are the key concept of the story. The narrative explores how human activities are directly contributing to environmental damage, prompting reflection on our responsibility to protect the planet.	Collect some information about the opposite poles of the earth, i.e., North Pole and South Pole.	Explore the theme of climate change and its consequences on the planet.	This time when your friend visited Jharkhand, he was startled to see the changes. He was not very happy with the development, as it has destroyed the natural beauty of Jharkhand. You also felt the same. Write a letter to the Tourism Minister reminding him about the destruction caused due to development. Suggest him some ideas where	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *Animation, *PPT Slides, *YouTube link, *Web series *Video game *etc., ...	Question Practice	Grasp the importance of Antarctica as a window to understanding Earth's past, present, and future.	Students will know about the problems occur due to global warming. They will understand importance of sustainable living and will contribute to environmental conservation.

							development will not be on the basis of destruction . Also ask him to bring back the natural glory of Jharkhand.				
		PROSE Poets and Pancakes (Flamingo)	To Understand the contrast between glamour and reality in the film industry.	The narrative emphasizes the difference between the polished, glamorous image presented on screen and the sometimes chaotic reality of film production. Key concept of the story are The Gemini Studios,"Poets" as writers,"Pancakes" as mundane routine,hierarchy,Reality vs. Illusion.	What is Hierarchy? Where do we see Hierarchy in our day to life ?	Understand the irony behind the visit of the British poet and how it reflects the cultural confusion of the time	Write down the names of some makeup brand which an actor/actress wears during any program or function.	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *Animation, *PPT Slides, *YouTube link, *Web series *Video game *etc., ...	Question Practice	Highlight humorous and satirical expressions in the text and explain their meaning.	Students will be able to explain the contrast between the glamorous image of the film industry and its real-life challenges.
		PROSE The Enemy (Vistas)	To understand the central theme of humanity versus prejudice and national loyalty. To explore the moral dilemma faced by Dr. Sadao between his duty as a doctor and his loyalty to his country.	This story highlighting how a person can choose compassion and morality even when faced with the pressure to prioritize their country's interests during wartime. Dr. Sadao Hoki is the protagonist of the story who must decide whether to save the life of an injured American soldier, considered an enemy, or to hand him over to police.	Make a small video on the freedom fighters of India who lost their lives during Kargil war.	Discuss the historical and political background of World War II	Write an essay on the topic "Our Real Enemy"	A REPORT ON "BHOPAL GAS TRAGEDY"	Question Practice	Evaluate the ethical questions raised in the story — Should loyalty to the nation outweigh the duty to save a human life?	Students will take right decisions in their life.

		Invitation and Replies	Writing Skills	Invitations are extended to relatives, friends, acquaintances and clients on a number of social occasions like marriages, births, engagements, deaths or other public functions. Replying to invitations is essential. It is an essential courtesy to the host who has extended an invitation and also helps the host know how many guests will arrive so that he/she may make arrangements accordingly.	Making of Invitation Cards	Writing Invitation on various occasions.	Practicing telephonic act of inviting people. Learning the courtesy.	Collect the best invitation that you have received and presenting it in the class.	Question Practice	Writing Invitations.	Students will know to write invitations.
		Report Writing	Writing Skills	Format of Report Writing.	Creative Writing	Writing reports on various topics.	Writing reports on various topics.	Paper cuttings and the collection of newspaper reports.	Question Practice	Writing Reports	Students will know to write reports.
AUGUST	22	PROSE On the Face of It (Vistas)	To remove inferiority complex from the students and motivate them to reach to the top.	Susan Hill has beautifully shown loneliness, isolation, and the human need for connection in her story. It explores the lives of two characters – a disfigured, reclusive man named Mr. Lamb, and a young boy named Derry, who is dealing with his own struggles.	Group discussion on “It’s got nothing to do with my face and what I look like”	Collect the data of the people who are the victims of Acid attack.	How do you view your life? -How to motivate handicapped people?	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *PPT Slides, *YouTube link, *Web series *Video game *etc., ...	Question Practice	Why do you think that Derry was not good in making friends? ?Give your opinion. Have you ever met any person like Derry?	Students will understand the central theme of acceptance, prejudice, and human connection.

		PROSE The Interview (Flamingo)	Students will know about Interviewer and Interviewee.	Interview is a process which allows both the interviewer and interviewee to learn about each other through the conversation. The writer of the story has explained both Pros and cons of interview. The chapter is divided into two parts. First part tells us about different people who had faced the Interview whereas second part tells us about the interview of single personality named Umberto Eco.	Take an interview of any personality you know.	Students will present their understanding of the chapter through writing, art, or role-play.	Report an interview. Analyze how interviews can be both a tool for discovery and an invasion of privacy. Provide examples from real life to support your argument.	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *Animation, *PPT Slides, *YouTube link, *Web series *Video game *etc., ...	Question Practice	Imagine you are a journalist preparing to interview a famous personality. What kind of questions would you ask to ensure the interview is respectful yet informative?	Students can take or face interviews.
		PROSE Going Places (Flamingo)	Students will Understand the central theme of adolescence, unrealistic dreams, and the gap between fantasy and reality. They will know how social class and personal limitations shape a person's dreams and aspirations.	Hero worshipping, adoration, reverence are the key concept of this story. Whole story revolves around Sophie who is a day dreamer. She dreams of a glamorous life far removed from her working-class existence; essentially exploring themes of hero worship, unfulfilled desires, and the limitations imposed by social circumstances.	Draw a portrait of yourself expressing how, where, and why do you imagine yourself after 10 years	Ask your parents about their dreams and what did they do to fulfill their dream. Also ask if they are living their dream or not?	What is colloquial language? Find some words from the chapters.	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *Animation, *PPT Slides, *YouTube link, *Web series *Video game *etc., ...	A short story based on the theme of the story.	Analyze how the story explores the tension between Sophie's dreams and the constraints of her environment. Consider her aspirations, her relationship with her family, and the impact of her dreams on her actions and interactions.	Students will take right decisions in their life. They will choose hero carefully and wisely.

		POEM A Roadside Stand (Flaming o)	To understand the poem's themes of social inequality, the value of rural life, and the contrast between the rich and poor, while also developing critical reading and analytical skills	A Roadside Stand poem is Robert Frost's scorching analysis of an inconsistent society where there is a massive division between the rich and poor people. He uses the roadside stand as a symbol for the struggles of rural people. The stand is placed where passing traffic can see it, hoping to attract city dwellers. The poem appeals for empathy, fairness, and genuine efforts to uplift the marginalized.	Collect the information of two shops. One shop should be from village and one should be a shop on highway. Write down their daily earning, profit and loss. With the help of data write your analysis.	Collect the information of two shops. One shop should be from village and one should be a shop on highway. Write down their daily earning, profit and loss. With the help of data write your analysis.	How do you think politicians play with the life of people.	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *Animation, *PPT Slides, *YouTube link, *Web series *Video game *etc., ...	Question Practice	The economic well-being of a country depends on a balanced developmen t of the villagers and the cities. Discuss	Students will understand the problem faced by village people and work accordingly.
SEPTEMBER	5	POEM Aunt Jennifer's Tigers (Flaming o)	To understand the pain of a woman. Students will know about the problems, difficulties etc that a woman faces in her life.	Symbolic tigers, contrasting realities, the wedding ring, Theme of female oppression etc are the key points of the poem Aunt Jennifer's tiger. The tigers embroidered by Aunt Jennifer represent her suppressed desire for power, fearlessness, and freedom. The poem critiques the societal expectations and patriarchal norms that restrict women's lives.	Do you see any aunt Jennifer in your society. What step you will take to stop her from becoming Aunt Jennifer?	Make something on a piece of cloth showing your embroidery skills.	Condition of women is changing. Write your comment .	Details about marriage ceremony of a particular country and the traditional differences	Question Practice	Write down the poetic devices used in the chapter.	How do 'Denizens' and 'Chivalric' add to our understandi ng of the tiger's attitudes ?

OCTOBER	13	PROSE Memories of Childhood (Vistas)	To understand the struggles and injustices faced by marginalized communities, analyze the impact of discrimination on individuals, and develop empathy and critical thinking skills regarding social issues.	The story primarily depicts the struggles faced by children from lower castes, showcasing the humiliation and prejudice they encounter in everyday life, even at a young age. Despite the oppressive environment, the narrative also highlights the strength and determination of individuals to resist and maintain their dignity.	Ask about memories of your family members and note that down in your notecopy beautifully.	open discussions about discrimination and oppression.	Write about best and worst memories of your life.	(Face to face interaction through digital learning) For instance – *Educational video or any documentary *Animation, *PPT Slides, *YouTube link, *Web series *Video game *etc., ...	A short video based on the theme of the story.	Compare and contrast the childhood experiences of the narrators in "We Too Are Human Beings" and "The Cutting of My Long Hair." How do their respective childhoods shape their understanding of the world?	Students will understand the theme of the chapter and feel empathy towards marginalized communities.
NOVEMBER	22	Revision	Revision	Revision and Practice Test	Revision	Revision	Revision	Revision	Revision	Revision	Revision
DECEMBER	23	Revision	Revision	Revision and Practice Test/ Pre Board	Revision	Revision	Revision	Revision	Revision	Revision	Revision
JANUARY	16	Revision	Revision	Pre Board	Revision	Revision	Revision	Revision	Revision	Revision	Revision

GROUP DISCUSSION TOPICS

1. Is Gender Sensitivity, gender equality concern?
2. Discuss the quote by Mark Zuckerberg “We don’t make services to make more money, we make money to make better services”.
3. How Terrorism affecting the World ?
4. Now a days TEENAGERS are getting rebellious. Discuss .
5. Our dependency on AI is increasing day by day. What do you think about this dependency.
6. Digital currency.
7. Mental health
8. Discuss about Jharkhand on the basis of Tourism, Tribal, Minerals, Beauty.
9. Gender Equality in Society. Discuss the opportunity and problem faced by of both men and women.
10. India in the World .
11. Different schemes for people by government of Jharkhand.
12. A debate on “Is society moving towards Non-Renewable Energy.”
13. Are men compromising their careers for the family?
14. Students learn better in collaborative or Competitive learning.
15. How Internship can contribute to education?

SUBJECT : Physics**Text Book : 1. NCERT**

Month	WD / NOP	Unit/Chapter	Concept/Key Terms/ Learning Objects	Activity	Project / Practical Work	Smart Board
APRIL	24	Unit-1 Electrostatics	Electric Charges and Fields : Electric charges, Conservation of charge, Coulomb's law-force between two- point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).	1. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.	1. To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material 2. To determine resistance per cm of a given wire by plotting a graph of potential difference versus current.	Audio and videos
MAY	8		Electrostatic Potential and Capacitance: Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only). SUMMER HOLIDAYS			
JUNE	14	UNIT-2 Current Electricity UNIT-3 Magnetic Effects of Current and Magnetism	Current Electricity: Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge Moving Charges and Magnetism: Concept of magnetic field, Oersted's experiment. Biot - Savart law and	2. To study the variation in potential drop with length of a wire for a steady current..	3. To verify the laws of combination (series/parallel) of resistance using meter bridge.	Smart Board to explain Kirchhoff's Rules, and Potentiometer

			its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight solenoid (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors- definition of ampere.			
JULY	25	UNIT-3 Magnetic Effects of Current and Magnetism (CONT.) UNIT-4 Electromagnetic Induction and Alternating Currents	torque experienced by a current loop in uniform magnetic field; Current loop as a magnetic dipole and its magnetic dipole moment, moving coil galvanometer- its current sensitivity and conversion to ammeter and voltmeter. Magnetism and Matter Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment only), magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis (qualitative treatment only), torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only), magnetic field lines. Magnetic properties of materials- Para-, dia- and ferro - magnetic substances with examples, Magnetization of materials, effect of temperature on magnetic properties Electromagnetic Induction: Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Self and mutual induction.	3. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.		
AUG	22	UNIT-5 Electromagnetic Waves UNIT-6 OPTICS	Alternating Current: Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance ;LCR series circuit, resonance; power in AC circuits, power factor, wattless current. AC generator and transformer Electromagnetic Waves: Basic idea of displacement current, Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only). Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses Ray Optics and Optical Instruments: Ray Optics: Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism. Optical instruments: Microscopes	To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such		Demonstration of eddy currents by video. Working of ac generator on video

			and astronomical telescopes (reflecting and refracting) and their magnifying powers. Wave Optics: Wave optics: Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only).			
SEPT	05	UNIT-7 Dual Nature of Radiation and Matter UNIT-8 Atoms and Nuclei	Dual Nature of Radiation and Matter: Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Experimental study of photoelectric effect Matter waves-wave nature of particles, de-Broglie relation. Atoms Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen atom, Expression for radius of nth possible orbit, velocity and energy of electron in nth orbit, hydrogen line spectra (qualitative treatment only). EXAM	To study the nature and size of the image formed by a (i) convex lens, (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror	4.To find the value of v for different value of u in case of a concave mirror and to find the focal length, 5. To find the focal length of a convex mirror, using a convex lens.	Videos of electromagnetic field in 3D. Examples of use of mirrors and lens via smart board.
OCT	13	Unit 9: Electronic Devices	Nuclei Composition and size of nucleus, nuclear force Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion. Unit IX: Electronic Devices . Semiconductor Electronics: Materials, Devices and Simple Circuits Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Intrinsic and extrinsic semiconductors- p and n type, p-n junction Semiconductor diode - I-V characteristics in forward and reverse bias, application of junction diode -diode as a rectifier.	10. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.	6. To find focal length of a convex lens by plotting graphs between u and v or between 1/u and 1/v. 7 To determine refractive index of a glass slab using a travelling microscope.	Video of all topics on projector(wave front , huygen principle etc) Audio and visual aids
NOV	22		Revision + Pre-Board			

SUBJECT: CHEMISTRY**Textbook: 1.NCERT BOOK****2.ABC OF CHEMISTRY**

Month	WD	Chapter/ Sub-Topics	Learning Objectives	Key Terms and Concept	Art Integration	Inclusive Teaching	Project / Practical	Research Work Blended Learning	Smart Board Activity	Competen cy Based Activity Learning	Learning Outcomes
April	24	SOLUTION	Types of solutions, expression of concentration of solutions of solids in liquids and different types of solutions. Determination of molecular masses using colligative properties, abnormal molecular mass, van't Hoff factor, solubility and factors affecting solubility, Henry law and its applications	Expression of concentration of solutions of solids in liquids, determination of molecular masses using colligative properties, abnormal molecular mass, van't Hoff factor	Preparation of CHARTS & MODELS related to colligative properties		Determination of concentration/ molarity of KMnO_4 solution by titrating it against a standard solution of Ferrous Ammonium Sulphate	Students can perform solution based procedure including titrations, dilution calculation and the test of solubility.			
		CHEMICAL KINETICS	- <u>Chemical Kinetics Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation</u>	• <u>Rate of a reaction • factors affecting rate of reaction: concentration, temperature, catalyst • order and molecularity of a reaction • rate law and specific rate constant • integrated rate equations and half-life (only for zero and first order reactions) • collision theory • activation energy and Arrhenius equation.</u>			Determination of concentration/ molarity of KMnO_4 solution by titrating it against a standard solution of Oxalic acids			Role of minerals found in our body Role of catalyst in increasing or decreasing the rate of reactions	
May	08	ELECTRO CHEMISTRY	- Electrochemistry: - Redox reactions, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy	• <u>Redox reactions • EMF • Nernst equation and its application to chemical cells • Relation between Gibbs energy change</u>	<u>Preparation of electrochemical cell by the hep of waste product of Dry cell</u>	<u>Construct and electro-Chemical cell as well as standard hydrogen electrode.</u>	Finding percentage purity of potassium permanganate. Determination	Deeply engaging the students in understanding the concept of chapter Electrochemistry.			

			change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell -electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion.	<u>and EMF of a cell, conductance in electrolytic solutions • Kohlrausch's Law • electrolysis and law of electrolysis (elementary</u>			of concentration/ molarity of KMnO ₄ solution by titrating it against a standard solution of Oxalic acids				
June	14	HALO ALKANES & HALOARENES	Nomenclature, nature of C–X bond, physical and chemical properties, optical rotation mechanism of substitution reactions. Haloarenes: Nature of C–X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only). Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT	Nature of C–X bond, physical and chemical properties, optical rotation mechanism of substitution reactions. Haloarenes: Nature of C–X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only). Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT Ch- Alcohols, phenols and	Assembling of one type of reaction in one column and all the other name reactions in another column			A report on Refrigerant poisoning causes, symptoms and treatment Deeply engaging the students in understanding the concept of Chapter solution as well as RX and ArX.			
July	26	ALCOHOL, PHENOL & ETHER	CHAPTER- ALCOHOL PHENOL AND ETHER Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols,	preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and ethanol. Phenols: Nomenclature,	Making graphs and particular relations and equations and group discussion on this topic.		Determination of number of moles of water of crystallisation in the crystal of Mohr's salt				

			mechanism of dehydration, uses with special reference to methanol and ethanol. Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophillic substitution reactions, uses of phenols. Ethers: Nomenclature, methods of preparation, physical and chemical properties,	methods of preparation, physical and chemical properties, acidic nature of phenol, electrophillic substitution reactions, uses of phenols. Ethers: Nomenclature, methods of preparation, physical and chemical properties,							
		ALDEHYDES ,KETONES AND CARBOXYLIC ACID. & AMINES	Preparation and properties of Aldehydes, Ketones and Amines	Comprehensive discussion of preparation and properties of Aldehydes, Ketones and Amines			QUALIT ATIVE ANALY SIS Cations - Pb ²⁺ , Cu ²⁺ , Al ³⁺ , Fe ³⁺ , Ni ²⁺ , Zn ²⁺ , Co ²⁺ , Mn ²⁺ , Ba ²⁺ , Ca ²⁺ , Sr ²⁺ , NH ₄ ⁺ Anions – Cl ⁻ , Br ⁻ , I ⁻ , CO ₃ ²⁻ , NO ₃ ⁻ , CH ₃ COO ⁻ , SO ₄ ²⁻				
Aug	22	D and F block of elements.	General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals – metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of K ₂ Cr ₂ O ₇ and KMnO ₄ .	characteristics of transition metals • general trends in properties of the first row transition metals – metallic character, ionization enthalpy, oxidation states	<u>electronic configuration • occurrence and characteristics of transition metals • general trends in properties of the first row transition metals – metallic character, ionization enthalpy, oxidation states</u>		CORE EXPERIMENTS AND PROJECTS QUALIT ATIVE ANALY SIS Cations - Pb ²⁺ , Cu ²⁺ , Al ³⁺ , Fe ³⁺ , Ni ²⁺ , Zn ²⁺ , Co ²⁺ , Mn ²⁺ , Ba ²⁺ , Ca ²⁺ , Sr ²⁺ , NH ₄ ⁺ Anions – Cl ⁻ , Br ⁻ , I ⁻ , CO ₃ ²⁻ , NO ₃ ⁻ , CH ₃ COO ⁻ , SO ₄ ²⁻			Role of amino acids in human An Excellen t field of Medicin es mainly cancers medicin es	

			Lanthanoids - Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids - Electronic configuration, oxidation states and comparison with lanthanoids.								
Sep	05		REVISION OF TERM (1) SYLLABUS				CORE EXPERIMENTS AND PROJECTS	Implementing group discussion or group projects where students can work together to solve complex problems.			
Oct	13		COORDINATION COMPOUNDS & BIO MOLECULES	Coordination compounds – Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner’s theory, VBT, and CFT; structure and stereoisomerism, importance of coordination compounds (in qualitative analysis, extraction of metals and biological system). Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D -L configuration , glycogen) importance of carbohydrates. Proteins – Elementary	Ligands • coordination number • IUPAC nomenclature of mononuclear coordination compounds • Werner’s theory • VBT • CFT • Stereoisomerism • extraction of metals and biological system Classification • Monosaccharides • Amino acids, peptide bond, denaturation of proteins, enzymes and hormone. • Classification and functions • Nucleic acids	Making Models of DNA & RNA, Nucleotides , codon.	CORE EXPERIMENTS AND PROJECTS				

				idea of α – amino acids, peptide bond, denaturation of proteins; enzymes. Hormones – Elementary idea excluding structure. Vitamins - Classification and functions. Nucleic Acids: DNA and RNA.							
Nov	22	REVISION									
Dec	23	PRE BOARD (1)									
Jan	16	PRE BOARD (2)									
Feb											
March											

SUBJECT: BIOLOGY

Textbook: 1. NCERT

2. mtg

Month	WD	Chapter/ Sub-Topics	Learning Objectives	Key Terms and Concept	Art Integration	Inclu sive Teac hing	Project / Practical	Research Work Blended Learning	Smart Board Activity	Competency Based Activity Learning	Learning Outcomes
April	24	Ch.01: Sexual reproduction in flowering plants: Flower structure, development of male and female gametophytes, pollination – Types, agencies and examples, special modes–apomixis, polyembryony.	1. Acquisition of knowledge: The student will be able to know about Androecium Gynoecium Pollination Fertilization Endosperm Embryo sac Apomixis 2.Development of	Key point : 1. Flower structure, development of male and female gametophytes, 2. pollination – types, agencies and examples, special modes– 3. apomixis, polyembryony	Preparation of natural dyes. Group work: Take interview of 5 renowned gynaeco logist of your locality and make a documentary on it.		1.To prepare a temporary mount to observe pollen germination. 2.Study of flowers adapted to pollination by different agencies		Quiz And Video	LOA & WORKSHEET Question on	The student will be able to know and learn about Microsporogenes is Megasporgenes is Post fertilization changes . The students will be able to After the completion of the chapter, the students will be able to

		Ch-2 Human Reproduction : Male and female reproductive system, menstrual cycle fertilization, embryo development up to blastocyst formation, pregnancy and placenta formation	understanding: To enable students to understand the process of Microsporogenesis Megasporogenesis 2. pollen pistil interaction 1. Acquisition of knowledge: The student will be able to know about 1.spermatogenesis 2.Oogenesis 3.Fertilization 4.Development of embryo 5. parturition 2.Development of understanding: To enable students to understand Gametogenesis Process and its hormonal effect .	Male and female reproductive system, menstrual cycle fertilization, embryo development up to blastocyst formation, pregnancy and placenta formation	.	(wind, insect, bird) 3.To prepare a temporary mount of onion root tip to study mitosis.			* High order thinking * Assertion and Reasoning * Picture based Questions LOA & WORKSHEET Question on * High order thinking * Assertion and Reasoning * Picture based questions	understand the changes occur during 1. pre fertilization event 2.fertilization event 3.post-fertilization event The student will be able to Develop the skill of figure. The students will be able to After the completion of the chapter, the students will be able to Understand the Event occur in sexual reproduction The student will be able to Develop the Process of Spermatogenesis And oogenesis Menstrual cycle
May	08	Ch-3 Reproductive Health: Need for reproductive health and prevention of STD birth control— need and methods of	1. Acquisition of knowledge: The student will be able to know about	<u>STD birth control—need and methods of contraception.</u> <u>Medical termination of</u>	<u>Catchy slogan</u> <u>Writing on</u> <u>Promotion on</u> <u>of Family Planning</u>	1.Prepare pedigree charts of anyone of the genetic traits such as		Quiz And Video	LOA & WORKSHEET Question on * High order	The student will be able to know and learn about Method of contraceptive method

		contraception. Medical termination of pregnancy, amniocentesis; infertility. Ch-4 Principles of Inheritance and Variation: Mendelian laws of inheritance, deviation from Mendelism, Multiple alleles and inheritance of blood groups–	Contraceptive method of birth control Medical termination of pregnancy STD's Ethical issues surrounding reproductive health 2.Development of understanding: To enable students to understand Contraceptive method of birth control 1. Acquisition of knowledge: The student will be able to know about <u>Mendelian laws of inheritance, multiple alleles and inheritance of blood groups–</u> 2.Development of understanding: To enable students to understand how to determination of blood group.	<u>pregnancy, amniocentesis; infertility.</u> Key point :- <u>Mendelian laws of inheritance, multiple alleles and inheritance of blood groups–</u>			rolling of tongue, blood groups, ear lobes, widow's peak and color blindness 2. Study of Mendelian inheritance using seeds of different colour/size of any plant			thinking * Assertion and Reasoning * Picture based Questions LOA & WORKSHEET Question on * High order thinking * Assertion and Reasoning * Picture based questions	Medical termination of pregnancy. The students will be able to After the completion of the chapter, the students will be able to understand Contraceptive method of birth control The student will be able to Develop the skill of <u>amniocentesis</u> The students will be able to After the completion of the chapter, the students will be able to Understand the Complete dominance Incomplete dominance Co-dominance Sex determination linkage The student will be able to calculate genotypic and phenotypic ratio In monohybrid and dihybrid cross
June	14	Ch-4 Principles of Inheritance and Variation(cont...)	1. Acquisition of knowledge: The student will be able to know about	Key point :						LOA & WORKSHEET Question on	The student will be able to know and learn about

		Chromosome theory of inheritance; Chromosomes and genes; Sex determination, linkage and crossing over; sex linked Ch-5 Molecular Basis of Inheritance: Search for genetic material, The DNA, RNA world. DNA packaging,	Chromosomal theory of inheritance Crossing over Genetic disorder and Mendelian disorder 1. Acquisition of knowledge: The student will be able to know about Structure of DNA DNA packaging Replication Transcription Translation 2. Development of understanding: To enable students to understand the process of Semiconservative model Transcription in prokaryotic cell and Eukaryotic cell	chromosome theory of inheritance; chromosomes and genes; sex determination, linkage and crossing over; sex linked Genetic disorder and Mendelian disorder Search for genetic he DNA, RNA world. DNA pack					Quiz And Video Quiz and Video Quiz And Video	* High order thinking * Assertion and Reasoning * Picture based questions * High order thinking * Assertion and Reasoning * Picture based questions	Chromosomal theory of inheritance Crossing over Linkage mutation The students will be able to After the completion of the chapter, the students will be able to understand the Genetic disorder and Mendelian disorder The student will be able to know and learn about Replication Transcription Translation The students will be able to After the completion of the chapter, the students will be able to understand the process of 1. Replication 2. Transcription 3. Translation The student will be able to Develop The skill of figure.
July	26	Ch-5 Molecular Basis of Inheritance: (Cont...)	1. Acquisition of knowledge: The student will be able to know about	<u>Replication of DNA, Human and rice genome project, DNA</u>					Quiz And Video	LOA & WORKSHEET Question on	The student will be able to know and learn about HGP Genetic codon

		Replication of DNA, Human genome project, DNA finger printing Ch-6 Evolution Origin of life; biological evolution and evidences for biological evolution (paleontology, mechanism of evolution - variation (mutation and recombination) and natural selection with examples, Hardy - Weinberg's principle; adaptive radiation; human evolution.	HGP Genetic codon Genetic mutation The Lac Operon DNA fingerprinting 2.Development of understanding: To enable students to understand Genetic codon the help to identified types of protein 1. Acquisition of knowledge: The student will be able to know about 1. Origin of life. 2. evidences for biological evolution 3. natural selection 4. , Hardy - Weinberg's principle 5. adaptive radiation 6. human evolution 2.Development of understanding: To enable students to understand the origin of life and Human Evolution	<u>finger printing</u> <u>1.Origin of life : biological evolution</u> <u>2.paleontology</u> <u>3.mechanism of evolution - variation (mutation and recombination) and</u> <u>4. natural selection with examples.</u> <u>5. Hardy - Weinberg's principle : Adaptive radiation; Human evolution.</u>					Flash card models showing examples of homologous and analogous organs Group Project : Make a ppt presentation on evolution of Homo sapiens	Quiz and Video	* High order thinking * Assertion and Reasoning * Picture based Questions * High order thinking * Assertion and Reasoning * Picture based questions	Genetic mutation The Lac Operon The students will be able to After the completion of the chapter, the students will be able to understand the Genetic codon The student will be able to Develop skill to identified Genetic codon The student will be able to know and learn about Origin of life. evidences for biological evolution natural selection Hardy - Weinberg's principle The students will be able to After the completion of the chapter, the students will be able understand the human evolution The student will be able to Develop the skill of Evolution
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Aug	22	Ch-7 Human Health and Disease Pathogens, parasites causing human diseases (malaria, dengue, Chikungunya, Basic concepts of immunology vaccines, cancer, HIV and AIDS, typhoid, pneumonia, common cold, amoebiasis, Ch-8 Microbes in Human Welfare: Role of microbes in household food processing, sewage treatment, energy generation and as bio-control agents and bio-fertilizers.	1. Acquisition of knowledge: The student will be able to know about 1.Pathogens, parasites causing human diseases 2.immunology 3.vaccines, 4.cancer, 5.HIV and 6.AIDS, 7.typhoid, 8.pneumonia, 9.common cold. 1. Acquisition of knowledge: The student will be able to know about 1.House hold food processing 2. Sewage treatment 3. Bio control fertilizers 2.Development of understanding: To enable students to understand sewage treatment plants	Pathogens, parasites causing human diseases(malaria, dengue, chikungunya , vaccines, cancer, HIV and AIDS, typhoid, pneumonia, common cold, Role of microbes in household food processing, sewage treatment, energy generation and as bio-control agents and biofertilizer	<u>Make informative posters on Awareness on AIDS. Make it informative by adding logos of Government initiative in this regard</u>	1.Study of disease causing organisms like Ascaris, Entamoeba, Plasmodium & Roundworm through permanent Slides or specimen. Comment on symptoms of disease that they cause Models specimen showing symbolic association in root nodules of leguminous plants, Cuscuta on host, lichens.	To make a ppt on various awareness program on malaria	Quiz And Video Quiz And Video	LOA & WORKSHEET Question on * High order thinking * Assertion and Reasoning * Picture based Questions * High order thinking * Assertion and Reasoning * Picture based questions	1.The student will be able to know and learn about Pathogens parasites causing human disease Immunology Vaccine 2.The students will be able to After the completion of the chapter, the students will be able to understand Immunity The student will be able to Develop Skill to identify types of pathogen The student will be able to know and learn about Household food processing Sewage treatment Bio control fertilizers The students will be able to After the completion of the chapter, the students will be able to understand sewage treatment plant
Sep	05	Revision + EXAM								
Oct	13	Ch-9	1. Acquisition of knowledge: The student	Genetic Engineering (Recombinant DNA			Isolation of DNA from available plant material such		Quiz And Video	LOA & WORKSHEET The student will be able to know and learn about Tools of rDNA

		Ecosystem Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy; Ch-13 Biodiversity and its Conservation Biodiversity - Concept, patterns, importance; loss of biodiversity; Red Data Book, Sacred Groves, biosphere reserves, national parks, wildlife, sanctuaries and hotspots.	knowledge: The student will be able to know about Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy; 1. Acquisition of knowledge: The student will be able to know about 1.Biodiversity - Concept, patterns, 2.importance; loss of biodiversity; 3.Red Data Book, Sacred Groves, biosphere reserves, national parks, wildlife, sanctuaries and Ramsar sites 2.Development of understanding: To enable students to understand about National park ,wild life sanctuaries .	Population rate, age distribution. Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy; Biodiversity, Red Data Book, Sacred Groves, biosphere reserves, national parks, wildlife, sanctuaries and Ramsar sites					And Video Quiz And Video	WORKSHEET Question on * High order thinking * Assertion and Reasoning * Picture based Questions LOA & WORKSHEET Question on * High order thinking * Assertion and Reasoning * Picture based Questions	be able to know and learn about Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy; will be able to The student will be able to know and learn about Groves, biosphere reserves, national parks, wildlife, sanctuaries and Ramsar sites The students will be able to After the completion of the chapter, the students will be able to understand Sacred groves , national park
Dec	23	Revision +Pre Board Exam I									
Jan	16	Pre board exam II									
Feb											
March											

SUBJECT: MATHEMATICS

Textbook: 1. Mathematics Part I and Part II-Text Book for class XII (NCERT)
2. Mathematics R.D Sharma Part I & II, Class XII

Month	WD	Chapter/ Sub-Topics	Key Terms and Concept	Art Integration	Project / Practical	Research Work Blended Learning
April	24	Relations and Functions Types of relations: reflexive, symmetric, transitive and equivalence relations. Composition of function and invertible function. One to one and onto functions. Matrices: Concept, notation, order, equality, types of matrices, zero and identity matrix, Operation on matrices: Addition and multiplication and multiplication with a scalar. Determinants: Determinant of a square matrix (up to 3×3 matrices), Applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix solutions, solving system of linear equations in two or three variables	Types of relations: reflexive, symmetric, transitive and equivalence relations. Composition of function and invertible function. One to one and onto functions. Binary operation	To minimize the cost of food fulfilling the dietary requirements.	To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m) : l \parallel m\}$ is an equivalence relation. To understand the concepts of absolute maximum and minimum values of a function in a given closed interval through its graph.	Formation of differential equation to explain the process of cooling of boiled water to a given room temperature.
May	08	Inverse Trigonometric Functions: Definition, range, domain, principal value branch	<u>Definition, range, domain, principal value branch</u>	To evaluate the definite integral $\int_a^b \frac{1}{1+x^2} dx$ as the limit of a sum and verify it by actual integration.	To draw the graph of $\sin^{-1}x$, using the graph of $\sin x$ and demonstrate the concept of mirror reflection (about the line $y = x$).	
June	14	Continuity and Differentiability: Continuity and differentiability, inverse trigonometric functions, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives	Applications of derivatives: Increasing/decreasing functions, tangents and normals, Integration as inverse process of differentiation.		To demonstrate a function which is not one-one but is onto	To find the time when the area of a rectangle of given dimensions become maximum, if the length is decreasing and

			Integration of a variety of functions by substitution,			the breadth is increasing at given
July	26	.Applications of Derivatives: Rate measure, Increasing/decreasing functions, Maxima and minima Integrals : Integration as inverse process of differentiation. Integration of a variety of functions by substitution,	Applications in finding the area under simple curves, especially lines . Definition, order and degree, general and particular solutions of a differential equation	Conditional Probability, Independent event, Total probability, Bayes Theorem, Probability Distribution	To sketch the graphs of ax and $\log ax$, $a > 0$, $a \neq 1$ and to examine that they are mirror images of each other	
Aug	22	Applications of the Integrals : Applications in finding the area under simple curves, especially lines Differential Equations : Definition, order and degree, general and particular solutions of a differential equation.Vectors : Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector.	Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector Direction cosines and direction ratios of a line joining two points. Distance of a point from a plane. Angle between two lines and two planes and a line and a plane.	To measure the shortest distance between two skew lines and verify it analytically	To sketch the graphs of ax and $\log ax$, $a > 0$, $a \neq 1$ and to examine that they are mirror images of each other	Finding the coordinates of different points identified in your classroom using the concepts of three dimensional geometry and also find the distances between the identified points.
Sep	05	Three - dimensional Geometry : Direction cosines and direction ratios of a line joining two points. Distance of a point from a plane. Angle between two lines and two planes and a line and a plane	Introduction, related terminology such as constraints,		To find analytically the limit of a function $f(x)$ at $x = c$ and also to check the	Formation of differential equation to explain the

			objective function, optimization, different types of linear programming (L.P.)		continuity of the function at that point.	process of cooling of boiled water to a given room temperature.
Oct	13	Linear Programming : Introduction, related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) Probability: Conditional Probability, Independent event, Total probability, Bayes Theorem, Probability Distribution	Conditional Probability, Independent event, Total probability, Bayes Theorem, Probability Distribution	To verify that angle in a semi circle is a right angle, using vector method	To understand the concepts of decreasing and increasing functions.	
Nov	22	Revision	Revision	Revision	Revision	Revision
Dec	23	Revision	Revision	Revision	Revision	Revision
Jan	16	Revision	Revision	Revision	Revision	Revision
Feb						
March						

SUBJECT : MATHEMATICS Text Book : 1. Mathematics Part I and Part II-Text Book for class XII (NCERT 2. Mathematics R.D Sharma Part I & II, Class XII

SUBJECT : **Information Practices (065)**

Text Book : 1. Information Practices with Python-XII (Sultan Chand)

Month	WD	Chapter/Sub-Topics	Learning Objectives	Key Terms and Concept	Art Integration	Inclusive Teaching	Project / Practical	Research Work Blended earning	Smart Board Activity	Competency Based Activity Learning	Learning Outcomes
APRIL	24	Unit 1: Data Handling using Pandas and Data Visualization: - Introduction to Python libraries- Pandas, Matplotlib. - Data structures in	<u>1. Acquisition of Knowledge:</u> To enable the students to know about Python libraries and data structure. <u>2.Development of Understanding:</u>	Data handling, data structure, data frames, series etc.	-	-	5 programs based on Python libraries and Data structure.	Multiple libraries can be merged using single program to develop the critical thinking skills.	PPT on Basics concept of data structure and CSV files.	Clarity of Concept through thought-provoking quizzing, critical thinking, logical reasoning, comprehending, high order thinking,	The students will be able to write the python programming using libraries.

		Pandas - Series and Data Frames. - Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing. - Data Frames: creation - from dictionary of Series, list of dictionaries, Text/CSV files; display; iteration; Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing;	To enable the students to understand the Basic Concept of Data structure. <u>3. Development of Skill:</u> To enable the students to develop the skill of Computational thinking and decision-making concept of data handling.							assertion and reasoning, case- based, oral drilling etc.	
MAY	08	Unit 1: Data Handling using Pandas and Data Visualization (cntd.): - Importing/Exporting Data between CSV files and Data Frames. Data Visualization :- - Purpose of	<u>1. Acquisition of Knowledge:</u> To enable the students to know about the mapping of CSV files and graphs to be added in the programming. <u>2.Development of Understanding:</u> To enable the students to	CSV Files, Data Frames, Data Visualization etc.	-	Corelation with text and CSV files.	5 programs based on Python libraries and Data structure.	Clarity of Concept through thought-provoking quizzing, critical thinking, logical reasoning, comprehending, high order thinking, assertion and reasoning, case- based, oral drilling etc.	PPT on concept of data frames and exporting data.	Clarity of Concept through thought-provoking quizzing, critical thinking, logical reasoning, comprehending, high order thinking, assertion and reasoning, case- based, oral drilling etc.	The students will be able to know and learn about Number system and their Conversion. The students will be capable of explaining about How to write program and formation of coding.

		plotting; drawing and saving following types of plots using Matplotlib – line plot, bar graph, histogram Customizing plots: adding label, title, and legend in plots.	understand the Basic Concept of graphs and CSV files. <u>3. Development of Skill:</u> To enable the students to develop the skill of Computational thinking and decision-making concept of data handling.								
JUNE	14	Unit 2: Database Query using SQL:- - Revision of database concepts and SQL commands covered in class XI - Math functions: POWER (), ROUND (), MOD (). - Text functions: UCASE ()/ UPPER (), LCASE ()/ LOWER (), MID ()/ SUBSTRING () /SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM (). - Date Functions: NOW (), DATE (), MONTH (), MONTHNAME	<u>1. Acquisition of Knowledge:</u> To enable the students to know about MySQL queries. <u>2.Development of Understanding:</u> To enable the students to understand the writing style of queries and fetching data from the database. <u>3. Development of Skill:</u> To enable the students to develop the skill of writing and filtering queries using various functions.	Basic commands, math functions, date functions, etc.	-	Use of functions to write and filter data from the database.	Create database along with 3 tables. Data to be added and filtered using various functions.	To impart knowledge and information regarding SQL functions.	PPT presentation on SQL queries with example, use of these functions.	Clarity of Concept through thought-provoking quizzing, critical thinking, logical reasoning, comprehending, high order thinking, assertion and reasoning, case- based, oral drilling etc	The students will be able create database and create tables in the database. Students will be able to use various functions of the SQL.

		()), YEAR (), DAY (), DAYNAME (). - Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*). - Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*). - Working with two tables using equi-join									
JULY	26	Unit 3: Introduction to Computer Networks:- - Introduction to networks, Types of network: PAN, LAN, MAN, WAN. - Network Devices: modem, hub, switch, repeater, router, gateway - Network Topologies: Star, Bus, Tree, Mesh. - Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP. - Website: Introduction, difference between a website	<u>1. Acquisition of Knowledge:</u> To enable the students to know about the computer network and how does it work. <u>2. Development of Understanding:</u> Students will understand the working of computer network and how does data get transferred. <u>3. Development of Skill:</u> To enable the students to develop the skill of creating a network.	Types of networks, Types of topologies, Web browsers, etc.	Art Integrated Project based on Basic Computer topology.	-	A computer network model will be prepared by the students which shows the working of networking.	Students can prepare a small network which involves various networking devices to explain its working.	PPT on computer network, topology and other internet related terms.	Clarity of Concept through quizzing, critical thinking, logical reasoning etc.	The students will be able to know and learn about Computer network and networking devices.

		and webpage, static vs dynamic web page, web server and hosting of a website. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.									
AUG	22	Unit 4: Societal Impacts:- - Digital footprint, net and communication etiquettes - Data protection, intellectual property rights (IPR) - Plagiarism, licensing and copyright, free and open source software (FOSS) - Cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. - E-waste: hazards and management. - Awareness about health concerns related	<u>1. Acquisition of Knowledge:</u> To enable the students to know about the social networking impacts in our day-to-day life. <u>2. Development of Understanding:</u> Understanding to be develop to secure data and recycle the products which can be reuse. <u>3. Development of Skill:</u> To enable the students to develop the skill of reuse the E-waste and secure data from the theft.	Cyber Crime, Hacking, Phishing, POCSO Act, IT Act, data protection etc.	Make a poster on cyber security to spread the awareness.	Real life examples and videos to be displayed for awareness.	-	Clarity of Concept through various case studies, posters and real life examples.	PPT on various case studies on digital world, cyber crimes and E-waste management.	Clarity of Concept through quizzing, critical thinking, comprehending, case- based, oral drilling etc.	The students will be able to analyze and recognize digital theft and how to overcome from it.

		to the usage of technology									
SEPT	5	Revision of Term -I Portion (a) School Assignment (b) H.W. / C.W. (c) Model Questions									
OCT	13	Revision									
NOV	22	Revision									
DEC	23	Revision									
JAN	16	Revision									

SUBJECT : ECONOMICS

Text Book : 1, N,C,E,R,T

Reference book:- 1,Macroeconomics by T, R, Jain (by V, K, Global Publication) 2, Economic Development and Indian Economy by T, R, Jain (by V, K, Global Publication) 3,

Month	WD	Chapter/Sub-Topics	Learning Objectives	Key Terms and Concept	Art Integration	Inclusive Teaching/ Subject integration	Project / Practical	Research Work Blended Learning	Smart Board Activity	Competency Based Activity Learning	Learning Outcomes
April	24	Unit 1: National Income and Related Aggregates National Income and Related Aggregates : What is Macroeconomics? Basic concepts in macroeconomics: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation,	1.Acquisition of knowledge: To enable students to: understand the concept of national income and related aggregates such as Gross Domestic Product (GDP), Gross National Product (GNP), and Net National Product (NNP), 2.Development of understanding to explain the various	Gross Domestic Product (GDP) – Gross National Product (GNP) – Net National Product (NNP) National Income (NI), Personal Income (PI) – Disposable Income (DI)	Documentary filmmaking: National income and related aggregates can be explored through documentary filmmaking; Students can create short documentaries that explore the impact of globalization on different communities	Integration with Accountancy.	Collect data on the economic performance of your chosen country, You can use data from government sources, international organizations such as the World Bank or the International Monetary	Blended learning can help to improve the overall effectiveness and efficiency of teaching and learning national income	Revision and Quiz	Q & A LOA	Students will be able to understand the concept of national income and related aggregates and explain their differences, Students will be able to calculate national income using

		Circular flow of income (two sector model); and Welfare Methods of calculating National Income – Value Added or Product method, Expenditure method, Income method, Aggregates related to National Income: Gross National Product (GNP), Net National Product (NNP), Gross Domestic Product (GDP) and Net Domestic Product (NDP) - at market price, at factor cost Real and Nominal GDP, GDP	methods used to calculate national income and related aggregates, to discuss the importance of national income and related aggregates in measuring a country's economic performance, 3.Development of skills to analyse the limitations of national income and related aggregates as a measure of economic well-being, to describe the relationship between national income and related aggregates and other economic indicators such as inflation, employment, and poverty,	Consumption Expenditure – Investment Expenditure Government Expenditure Net Exports (X-M)	or examine the role of government policies in shaping the economy		Fund, or other reliable sources, Make sure you use data from a recent year or years to ensure the relevance of your analysis,	and related aggregate sby combinin g the benefits of traditiona l classroom instructio n with online learning, blended learning can provide a more flexible and adaptive learning experienc e that meets the diverse needs of students,			different methods and understand the implications of each method, Students will be able to explain the significance of national income and related aggregates in measuring economic growth and development , Students will be able to critically evaluate the limitations of national income and related aggregates as a measure of economic well-being and suggest alternative measures, Students will be able toanalyse the relationship between national income and related aggregates
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											and other economic indicators and use this understanding to interpret economic data and make informed decisions,
May	08	Unit 2: Money and Banking Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt, Bank, Banker's Bank, Control of Credit through Bank Rate, CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement	1.Acquisition of knowledge: To enable students to : define money and banking and explain their importance in the economy, to analyse the different functions of money and the various types of money, to explain the role of banks in the economy, including their functions, services, and regulations, 2.Development of understanding: to understand the monetary policy tools and objectives of the central bank in controlling the money supply and inflation, 3.Development of skills to analyse the impact	Money Supply Currency;, Central Bank Reserve Requirements Fractional Reserve Banking Monetary Policy: Interest Rates, Inflation: Deflation Commercial Banks Credit Creation	Create art projects that explore the history of money: Students can create artwork that explores the history of money, such as creating paintings or sculptures that depict the evolution of coins and currency,	Integrati on with Business studies	The role of banking in economic development: Banks play a critical role in providing access to credit and capital for businesses and individuals, which can spur economic growth and development, You could examine how banking systems differ across countries and regions, and how these differences impact economic growth and	The impact of central bank policies on the economy: This could involve researching how central banks use interest rates, quantitative easing, and other policies to control the money supply and stabilize the economy, Students could explore the historical context of central bank policies, as	Revisio n and Quiz	Q & A LOA	Students will be able to define money and banking and explain their importance in the economy, Students will be able to analyse the different functions of money and the various types of money, Explain the role of banks in the economy, including their functions, services, and regulations, Students will be able to understand

			of changes in interest rates and money supply on the economy, including inflation, output, and employment,				development,	well as analyze recent examples like the Federal Reserve's response to the COVID-19 pandemic,			the monetary policy tools and objectives of the central bank in controlling the money supply and inflation, Analyse the impact of changes in interest rates and money supply on the economy, including inflation, output, and employment,
June	14	UNIT: 3 Determination of Income and Employment Aggregate demand and its components, Propensity to consume and propensity to save (average and marginal), Short-run equilibrium output; investment multiplier and its mechanism , Meaning of full employment and involuntary unemployment, Problems of excess demand and deficient demand;	1.Acquisition of knowledge: To enable students to: to define aggregate demand and aggregate supply and explain their components 2.Development of understanding: to analyse the determinants of aggregate demand and aggregate supply in the economy, 3.Development of skills to understand the concept of equilibrium income and output and how it is determined	Disposable Income -, Consumption, Investment -, Government Spending - Aggregate Demand Aggregate Supply, Inflation, Unemployment -, Multiplier Effect Fiscal Policy Monetary Policy - Business Cycle	Visual Storytelling: Students can create visual stories using different art forms such as drawing, painting, or photography, that demonstrate the various ways income and employment affect people's lives, This will not only help them understand these concepts but also	Integration with History with the concept of industrialization ,supply and demand pattern in ancient time .	Define the circular flow of income and explain its components (households, firms, government, and the rest of the world) Explain how income and employment are generated in this model	The relationship between government policies and income inequality: Analyze how different government policies (e.g., taxation, welfare programs) affect income inequality, You can compare different	Revision and Quiz	Q & A LOA	Students will be able to describe the components of aggregate demand and supply and their importance in the economy, Students will be able to identify the factors that determine aggregate demand and supply, Students will be able to

		measures to correct them - changes in government spending, taxes and money supply	in the economy, to analyse the impact of changes in aggregate demand and supply on the equilibrium level of income and output, to understand the concept of multiplier and its importance in the economy,		develop their storytelling skills,			countries or time periods to see how changes in policy have affected income inequality over time,		understand the concept of equilibrium income and output and how it is determined in the economy, Students will be able to analyse the impact of changes in aggregate demand and supply on the equilibrium level of income and output and understand the concept of a shift in the demand and supply curve, Students will be able to explain the concept of multiplier and how it magnifies the impact of changes in aggregate demand and supply on the economy, the y will also be
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											able to calculate the value of the multiplier,
July	26	Part B: Indian Economic Development Unit 1: Development Experience (1947-90) and Economic Reforms since 1991: A brief introduction of the state of Indian economy on the eve of independence, Indian economic system and common goals of Five Year Plans, Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy), Industry (IPR 1956; SSI – role & importance) and foreign trade, Economic Reforms since 1991: Features and appraisals of liberalisation, globalisation and privatisation (LPG policy); Concepts of demonetization and GST	1.Acquisition of knowledge: To enable students: to understand the economic policies and development experience of India from 1947 to 1990 2.Development of understanding: to analyse the challenges faced by the Indian economy during this period and the strategies adopted to address them, to evaluate the impact of economic policies on various sectors of the Indian economy, 3.Development of skills to comprehend the nature and scope of economic reforms initiated since 1991,	Nehruvian socialism Five-Year Plans:, License Raj:, Green Revolution:, Import substitution industrialization Liberalization:, Privatization, Globalization:, Foreign Direct Investment (FDI):	Art and globalization: The period of economic reforms since 1991 saw India opening up to the world and becoming more integrated into the global economy, This can be a topic of study for art education as well, by exploring how Indian art and artists have responded to this process of globalization, For example, you could analyze the work of contemporary Indian artists who are working in a global context, or those who are exploring themes of cultural identity and globalization in their work,	Integrati on with History with the concept of industrial ization ,supply and demand pattern in ancient time	Describe the economic policies implemente d by India during this period, including the Five- Year Plans and the Green Revolution Discuss the successes and failures of these policies, and their impact on India's economy Analyse the role of the public sector and the private sector in India's economic developmen t during this period	Analysis of the Green Revolution in India: The Green Revolution was a period of agricultura l growth in India that started in the 1960s, This research topic can explore the factors that led to the success of the Green Revolution , its impact on the Indian economy, and the challenges it faced,	Revisio n and Quiz	Q & A LOA	Students will be able to understand the evolution of economic policies in India from 1947 to 1990, Students will be able to analyse the challenges faced by the Indian economy during this period and the strategies adopted to address them, Students will be able to evaluate the impact of economic policies on various sectors of the Indian economy, such as agriculture, industry, and services, Students will be able to

											comprehend the nature and scope of economic reforms initiated since 1991 and the reasons for their introduction, Students will be able to understand the objectives, strategies, and outcomes of economic reforms since 1991, such as liberalization , privatization, and globalization , Students will be able to apply their knowledge of economic policies and reforms to analyse current economic issues in India,
Aug	22	Unit 2: Current challenges facing Indian Economy	1.Acquisition of knowledge: Toenable students :	Inflation:, Unemployment, Income inequality:	Infographic design: Ask students to	Integrati on with Geograp	Unemploym ent: Unemploym	COVID-19 Pandemic:	Revisio n and Quiz	Q & A LOA	Students will be able to identify the

		Human Capital Formation: How people become resource; Role of human capital in economic development; Growth of Education Sector in India Rural development: Key issues - credit and marketing - role of cooperatives; agricultural diversification; alternative farming - organic farming Employment: Growth and changes in work force participation rate in formal and informal sectors; problems and policies Sustainable Economic Development: Meaning, Effects of Economic Development on Resources and Environment, including global warming	to identify the major challenges faced by the Indian economy in the present context, to analyse the causes and consequences of these challenges, 2.Development of understanding: to understand the policy options available to address these challenges, to evaluate the effectiveness of different policy options in addressing these challenges, 3.Development of skills to apply economic concepts and theories to understand the challenges facing the Indian economy,	Slow economic growth:, Agricultural distress: Fiscal deficit:, Banking sector crisis: Digital divide Environmental degradation: Geopolitical tensions	create an infographic that visually represents the current challenges facing the Indian economy, This can include graphs, charts, and other visual representations of data, The use of color, images, and other design elements can help students convey complex information in an engaging and accessible way,	by the concept of demographic dividend and other composition and other indicators	ent is a major challenge facing the Indian economy, With a growing population and limited job opportunities, the unemployment rate in India is very high, The COVID-19 pandemic has worsened this situation, with many people losing their jobs and businesses shutting down,	The outbreak of the COVID-19 pandemic has had a severe impact on the Indian economy, You could explore the various challenges faced by different sectors, such as the impact on small businesses, job losses, supply chain disruptions, and the overall economic slowdown,		major challenges faced by the Indian economy in the present context, such as high inflation, slow growth, unemployment, and inequality, Students will be able to analyse the causes and consequences of these challenges, such as structural bottlenecks, weak infrastructure, and inadequate social safety nets, Students will be able to understand the policy options available to address these challenges, such as fiscal and monetary policies, trade policies, and social
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											welfare policies, Students will be able to evaluate the effectiveness of different policy options in addressing these challenges, taking into account their costs, benefits, and trade-offs, Students will be able to apply economic concepts and theories, such as demand and supply, market failures, and externalities, to understand the challenges facing the Indian economy, Students will be able to develop critical thinking and problem-solving skills
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											by analysing and proposing solutions to the challenges facing the Indian economy,
Sept	5	REVISION FOR THE TERM-I EXAMINATION									
Oct	13	Unit 4: Government Budget and the Economy Government budget - meaning, objectives and components, Classification of receipts - revenue receipts and capital receipts; Classification of expenditure – revenue expenditure and capital expenditure, Balanced, Surplus and Deficit Budget – measures of government deficit,	1.Acquisition of knowledge: Toenable students : to understanding the purpose and importance of government budgeting in a market economy 2.Development of understanding: to analysing the impact of fiscal policy on economic growth, inflation, and employment toExamine the different types of government revenues and expenditures, including taxes, transfers, and public goods and services 3.Development of skills to evaluate the effectiveness of different budgetary	Government Budget Fiscal Policy: Monetary Policy;, Deficit: Debt;, Inflation: Gross Domestic Product (GDP, Taxation, Public Goods: Crowding Out: Multiplier Effect;, Automatic Stabilizers	Infographics: Creating infographics that visually represent data related to government budgets and the economy is a great way to incorporate art into this topic, Students can create posters or digital graphics that illustrate the impact of government spending on the economy,	Work sheet for Group A, B and C	PPT on budget of our country for FY-2023-24	The role of government spending in stimulating economic growth: Analyze the historical data to investigate how government spending affects economic growth, Are there any specific areas of government spending that have a more significant impact on the economy than others?	Revision and Quiz	Q & A LOA	Students will be able to understand the role of government in the economy: Students will learn about the various ways in which government intervention can impact the economy, including through taxation, government spending, and regulation, Students will be able to examine the different types of government revenues and expenditures, including taxes, transfers, and public goods and services, Students will be able to analyses

			tools and techniques, such as deficit spending and balanced budget rules to identify the key stakeholders involved in the budgetary process, including elected officials, interest groups, and citizens Applying economic models and theories to analyze budgetary decisions and their effects on the economy and society to critically evaluating government budgetary policies and proposals, and developing informed opinions on their potential benefits and drawbacks to Understand the role of budget deficits and debt in the economy, and assessing their impact on future generations, to understand the principles of public financial management and the budgeting process, including the role of the legislature and the executive branch, to analyse the trade-							government budgets: Students will be able to learn how to read and analyze government budgets, including understanding the various categories of spending and revenue sources, Evaluating fiscal policy: Students will learn how changes in government spending and taxation can impact the economy, and how to evaluate the effectiveness of various fiscal policies, Students will be able to understand macroeconomic concepts: Students will develop a deeper understanding of macroeconomic concepts such as GDP, inflation, and unemployment, and how government budget
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			offs between various budgetary priorities and constraints, such as equity, efficiency, and sustainability,								decisions can impact these indicators, Students will be able to develop critical thinking skills: Studying government budget and the economy requires students to think critically about complex economic issues and to evaluate the potential consequences of policy decisions, Communicating economic ideas effectively: Students will develop the ability to communicate complex economic ideas in a clear and concise manner, both in writing and in oral presentations, Overall, studying government budget and the economy provides students with
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											a foundational understanding of how government policies can impact the economy and the well-being of individuals and society as a whole,
Oct	13	UNIT 5 Balance of Payments Balance of payments account - meaning and components; Balance of payments – Surplus and Deficit Foreign exchange rate - meaning of fixed and flexible rates and managed floating, Determination of exchange rate in a free market, Merits and demerits of flexible and fixed exchange rate, Managed Floating exchange rate system	1.Acquisition of knowledge: To enable students : to define balance of payments and its components to explain the importance of balance of payments in international trade 2.Development of understanding: to analyse the causes and consequences of imbalances in balance of payments to evaluate policies to correct balance of payments imbalances. 3.Development of skills to understand the relationship between exchange rates and balance of payments	Current Account: Capital Account: Financial Account: direct investment, portfolio investment, and other investments, Trade Balance: Current Account Balance: Capital Account Balance: Financial Account Balance: Balance of Payments Surplus/Deficit:	Infographics: Creating infographics that visually represent data related to Balance of payments	Work sheet for Group A, B and C	Make a project on balance of payments between India and rest of the world	N,A,	Revision and Quiz	Q & A LOA	Students will be able to understand the meaning and significance of balance of payments and its components, including the current account, capital account, and financial account, Recognize the importance of balance of payments in determining a country's overall economic health and its ability to trade with other countries, Students will be able to analyse the causes and consequences of imbalances in balance of payments,

		Unit 8: Development Experience of India: A comparison with neighbours India and Pakistan India and China Issues: economic growth, population, sectoral development and other Human Development Indicators	Toenable students: to understand the historical, political, and economic context of India, Pakistan, and China's development experiences, to examine the similarities and differences in the economic policies pursued by India, Pakistan, and China, including the role of state intervention, economic liberalization, and globalization, to analyse the social changes that have occurred in India, Pakistan, and China, including changes in gender roles, caste relations, and ethnic diversity, to assess the political developments in India, Pakistan, and China, including the role of democracy, federalism, and authoritarianism, to understandthe key issues and challenges in India and China's relationship, including	Demographic profile liberalization, and globalization Human Development Indicators GLF proletarian Cultural campaign	Infographics: Creating infographics that visually represent data related to India China and Pakistan economic conditions and development	Work sheet for Group A, B and C	Examining the social development of India, Pakistan, and China and comparing the quality of life indicators such as literacy rates, healthcare access, and education levels, This could involve conducting surveys, analyzing existing data	Evaluate the political developments in India, Pakistan, and China, including the role of democracy	Revision and Quiz	Q & A LOA	including trade deficits, current account deficits, and capital outflows, Students will be able toevaluate policies that can be used to correct imbalances in balance of payments, such as exchange rate adjustments, trade policies, and capital controls, Students will Students will be able toexamine the role of international trade in shaping the economic development of India, Pakistan, and China, Developing critical thinking skills by evaluating different perspectives on the economic development of these countries,
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			trade, territorial disputes, and geopolitical tensions,				sets, and interviewing experts in the field,				Identifying the implications of the economic development of India, Pakistan, and China for the global economy, Enhancing cross-cultural awareness by comparing and contrasting the economic development experiences of different countries, Developing research and analytical skills by conducting independent research on the economic development of India, Pakistan, and China,
Nov	22	REVISION FOR PRE-BOARD EXAMINATION									
Dec	23	PRE- BOARD EXAMINATION									

SUBJECT : ACCOUNTANCY

Text Book : 1. N.C.E.R.T

2. DOUBLE ENTRY BOOKKEEPING

Month	WD	Chapter/Sub-Topics	Learning Objectives	Key Terms and Concept	Art Integration	Inclusive Teaching	Project / Practical	Research Work Blended Learning	Smart Board Activity	Competency Based Activity Learning	Learning Outcomes
April	24	Accounting for partnership firms ---- Fundamentals - Preparation of profit and loss appropriation account - Partners' capital accounts under fixed and fluctuating method - Adjustment regarding interest on partner's loan - Interest on partners drawings - Interest on partners' capital - Partners salaries and commission - Past Adjustment - Guarantee of prof	Acquisition of knowledge: To enable them to know- - Meaning of partnership & Features - Rights of partners - Partnership deed: Concept and importance 2.Development of understanding: To enable students to understand - Provision affecting accounting treatment in the absence of partnership deed. 3.Development of skills: To enable the students to develop the skills of: - Preparation of profit and loss appropriation account - Partners capital accounts under fixed and	<u>Partnership deed</u> <u>Provisions of partnership Act 1932</u> <u>Appropriation of Profit</u> <u>Charge against profit</u> <u>Fixed capital method</u> <u>Fluctuating capital method</u>	Integrated with Painting and Sketch Poster Making, Role plays on rights and liabilities of partners.	Some relevant topics in the chapter to be integrate with the other subjects. For example- Meaning, features, partnership deed provision applicable in the absence of deed of partnership to be integrated with subject Business studies.	Project on the contents of partnership deed of Go pro and Red bull.	Face to face interaction through digital learning like educational video/ documentary on partnership deed/YouTube link.	Audio visual learning Of types of partners, partnership deed & provisions applicable in the absence of deed.	*Conceptual learning *Thought provoking *Critical thinking *Logical reasoning *Analyzing, *Comprehending *High order thinking *Assertion and Reasoning *Picture based learning *Source based learning *Story telling pedagogy *Oral drilling *Quizzing *Creating and engaging *Mind mapping etc.	The students will be able to know and learn various aspects of partnership. The students will be able to know and learn various rights and liabilities of partners. The students will be able to know and learn differentiate partnership, sole proprietorship & LLP.

			fluctuating method								
May	08	Goodwill: Nature and valuation Meaning of Goodwill • Factors affecting for valuing goodwill. • Need for valuing Goodwill. • Classification of goodwill • Methods for valuing goodwill: • Average profit method: Simple and weighted. • Super profit method • Capitalization method: Capitalization of average profit and capitalization of super profit.	1.Acquisition of knowledge: To enable them to know- ➤ Meaning of Goodwill & Features ➤ Factors affecting for valuing goodwill. 2.Development of understanding: To enable students to understand ➤ Need for valuing Goodwill. ➤ Classification of goodwill 3.Development of skills: To enable the students to develop the skills of: ➤ Methods for valuing goodwill: ➤ Average profit method: Simple and weighted. ➤ Super profit method ➤ Capitalization method: Capitalization of average profit and capitalization of super profit.	<u>Favorable location</u> <u>Efficiency of management.</u> <u>Purchased Goodwill.</u> <u>Self-Generated Goodwill.</u> <u>Inherent Goodwill.</u>	Integrated with Painting and Sketch Poster Making, Role plays on rights and liabilities of partners.	Work sheet based on CBSE exam	Project on methods used on valuation of goodwill.	Find out the various methods of valuation of Goodwill and the formulas to calculate.	Audio visual learning Of types of goodwill, what are the methods used for valuation of goodwill and what are the factors affect the value of goodwill.	*Conceptual learning *Thought provoking *Critical thinking *Logical reasoning *Analyzing, *Comprehending *High order thinking *Assertion and Reasoning *Picture based learning *Story telling pedagogy *Oral drilling *Quizzing *Creating and engaging *Mind mapping etc.	The students will be able to know and learn: the meaning, nature & factors affecting goodwill. Develop the understanding and skill of valuation of goodwill using different methods.
June	14	Change in profit sharing ratio among the existing partners. ● Concept of reconstitution of	1.Acquisition of knowledge: To enable them to know- ➤ Concept of	<u>Sacrificing ratio.</u> <u>Gaining ratio.</u>	Integrated with Painting and Sketch Poster	Some relevant topics in the chapter to be integrate with	Project on effect of change in profit sharing ratio of an	Face to face interaction through digital learning like educational	Audio visual learning of treatment of goodwill,	*Conceptual learning *Thought provoking *Critical	The students will be able to know and learn: the accounting treatment of

		partnership ● Sacrificing ratio and gaining ratio ● Accounting treatment of goodwill, Reserves, Accumulated profit, ● Revaluation of assets and liabilities ● Preparation of balance sheet of the reconstituted firm Admission of a partner ● Calculation of new and sacrificing ratio ● Accounting treatment of Goodwill in case of admission of a partner as per AS – 26 ● Preparation of Revaluation account, Partner's capital account and Balance sheet ● Adjustment of Capital : When total capital is known; when total capital in unknown and hidden goodwill	reconstitution of partnership 2.Development of skills: To enable the students to develop the skills of calculating & treatment of: ➤ Sacrificing ratio and gaining ratio ➤ Accounting treatment of goodwill, Reserves, Accumulated profit, ➤ Revaluation of assets and liabilities ➤ Preparation of balance sheet of the reconstituted firm. 1.Acquisition of knowledge: To enable them to know- ➤ Concept of Admission of partner ➤ Effects of admission of partner 2.Development of skills: To enable the students to develop the skills of calculating & treatment of: ➤ Calculation of new and sacrificing ratio ➤ Accounting treatment of Goodwill in	<u>Accumulated profit & reserves.</u> <u>Revaluation of Assets & reassessment of Liabilities</u> <u>Treatment of Goodwill.</u> <u>Accounting standard 26</u> <u>Adjustment of capital.</u> <u>Sacrificing ratio.</u> <u>Calculation of new ratio.</u> <u>Treatment of Goodwill when new partner admitted.</u>	Making, Role plays on treatment of goodwill, adjustment of capital, treatment of reserve and accumulated profit & loss etc.	the other subjects. For example- Calculation of ratio to be integrated with subject Mathematics. & Work sheet based on CBSE exam	imaginary partnership firm. Project on effect of admission of a partner in case of imaginary partnership firm.	video/ documentary on partnership deed/YouTube link of different topics of the chapter like change in profit sharing ratio, treatment of goodwill when new partner is admitting, adjustment of capital when new partner is admitting etc. Make a imaginary partnership firm with some accounting information regarding reserves. Accumulated profits, revaluation of assets and liabilities etc and change the profit-sharing ratio and prepare the accounting treatment for that. Make a imaginary partnership firm with some accounting information regarding reserves. Accumulated profits, revaluation of assets and liabilities etc. then admit a new	accumulated profit & loss, treatment of goodwill, adjustment of capital etc..	thinking *Logical reasoning *Analyzing, *Comprehending *High order thinking *Assertion and Reasoning *Picture based learning *Source based pedagogy *Oral drilling *Quizzing *Creating and engaging *Mind mapping etc	goodwill, revaluation assets and re-assessment of liabilities and treatment of reserve by preparing revaluation account and balance sheet. The students will be able to know and learn: the effect of change in profit sharing ratio on admission of a new partner. The students will be able to know and learn: treatment of goodwill as per AS-26, preparation of revaluation account, partners' capital account and balance sheet.
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			case of admission of a partner as per AS - 26 ➤ Preparation of Revaluation account, Partner's capital account and Balance sheet ➤ Adjustment of Capital: When total capital is known; when total capital is unknown and hidden goodwill ➤ Preparation of memorandum revaluation account					partner with different terms and condition and prepare all the necessary accounting treatment for that.			
July	26	Retirement of a partner ● Calculation of new and gaining ratio ● Accounting treatment of goodwill in case of retirement of a partner. ● Preparation of Revaluation account, Partner's capital account and Balance sheet ● Adjustment of Capital: (i) When total capital is of the new firm is known. (ii) when total capital of the remaining partners is to be in new profit-sharing ratio. (iii) When total capital is of the new firm is equal to total capital before retirement. (iv) When retiring partner is to be paid through amount brought by the remaining partners in a manner to make their capital proportionate to	1.Acquisition of knowledge: To enable them to know- Concept ➤ Provisions of partnership Act regarding retirement of a partner. ➤ Accounting treatment of goodwill in case of retirement of a partner 2.Development of skills: To enable the students to develop the skills of calculating & treatment of: ➤ Calculation of share of profit	<u>Gaining ratio.</u> <u>Treatment of goodwill in case of retirement of a partner.</u> <u>Treatment of reserve & accumulated profit & loss.</u> <u>Partners loan account.</u> <u>Settlement of loan of retiring partner.</u> <u>Executors account</u>	Integrated with Painting and Sketch Poster Making, Role plays on treatment of goodwill, adjustment of capital, treatment of reserve and accumulated profit & loss, calculation of profit or loss of deceased partner up to the date of death etc.	Some relevant topics in the chapter to be integrate with the other subjects. For example- Calculation of ratio to be integrated with subject Mathematics. & Work sheet based on CBSE exam	Project on accounting treatment of different items on retirement & death of a partner in case of imaginary partnership firm.	Face to face interaction through digital learning like educational video/ documentary on partnership deed/YouTube link of different topics of the chapter like change in profit sharing ratio, treatment of goodwill when a partner is retired from the firm, adjustment of capital when a partner is retired or dead etc. Make a imaginary partnership firm with some accounting	Audio visual learning of treatment of goodwill, accumulated profit & loss, treatment of goodwill, adjustment of capital, calculation of profit up to the date of death of a deceased partner etc..	Conceptual learning *Thought provoking. *Critical thinking *Logical reasoning *Analyzing, *Comprehending *High order thinking *Assertion and Reasoning *Picture based learning *Story telling pedagogy *Oral drilling *Quizzing *Creating and engaging *Mind mapping etc	The students will be able to know and learn: the effect of retirement/death of a partner on change in profit sharing ratio. The students will be able to know and learn: the skill of calculation of deceased partner's share till the date of his death. The students will be able to know and learn: preparation of deceased partners executor's account. The students will be able to know

		their new profit-sharing ratio and also leave a desired cash balance. Death of a partner ● Computation of amount due to a deceased partner ● Calculation of profit based on time and sales ● Preparation of deceased partner's capital account. ● Preparation of executor's account	➤ of deceased partner. ➤ Calculation based on time & turnover. ➤ Executor's account. ➤ Adjustment of Capital: (i) When total capital is of the new firm is known. (ii) when total capital of the remaining partners is to be in new profit-sharing ratio. (iii) When total capital is of the new firm is equal to total capital before retirement. (iv) When retiring partner is to be paid through amount brought by the remaining partners in a manner to make their capital proportionate to their new profit-sharing ratio and also leave a desired cash balance. ➤	<u>Methods of calculation of shares of profit/loss of deceased partner.</u> a. <u>On the basis of time & turnover.</u>				information regarding reserves. Accumulated profits, revaluation of assets and liabilities etc. then one partner will retire with different terms and condition and prepare all the necessary accounting treatment for that .			and learn: the preparation of the capital account of remaining partner and the balance sheet of the firm after retirement.
Aug	22	Dissolution of a partnership Firm ● Accounting entries for dissolution of firm ● Preparation of dissolution or realization account, partners' capital account and bank account. PART- B Company Accounts Accounting for share capital	1.Acquisition of knowledge: To enable them to know- ➤ Concept ➤ Distinction between dissolution of firm and dissolution of partnership ➤ Modes of dissolution of	<u>Realization account.</u> <u>Dissolution of partnership and partnership form.</u> <u>Dissolution by court.</u> <u>Firm's debt</u>	Integrated with Painting and Sketch Poster Making of Dissolution of partnership and partnership form. One person company,	Some relevant topics in the chapter to be integrate with the other subjects. For example- One person company, Private Company, Public Company,	Project on the provisions of act regarding the dissolution of partnership firm. Project on a Public Ltd. Regarding accounting entries of issue of shares and	Face to face interaction through digital learning like educational video/ documentary on partnership deed/YouTube link of settlement of accounts U/s 48, several types of companies, types	Audio visual learning of settlement of accounts U/s 48, several types of companies, types of shares issued in	Conceptual learning *Thought provoking. *Critical thinking *Logical reasoning *Analyzing, *Comprehending *High order thinking *Assertion and Reasoning	The students will be able to know and learn: The situations under which a partnership firm can be dissolved. The students will be able to know and learn: Hoe to preparation of realization

	● Accounting treatment of issue of share at par and premium ● Under subscription of shares ● Over subscription of shares ● Issue of shares for consideration other than cash ● Forfeiture and re-issue of shares	➤ firm Settlement of accounts (Section 48) ➤ Payment of firms debt and private debt (section 49) ➤ Meaning and characteristics of a company ➤ Kind of companies ➤ (i) One person company ➤ (ii) Private company ➤ (iii) Public company ➤ Meaning of share capital ➤ Kinds of shares ➤ Difference between equity and preference shares 2.Development of skills: To enable the students to develop the skills of calculating & treatment of: ➤ Accounting treatment of issue of share at par and premium ➤ Under subscription of shares ➤ Preparation of dissolution or realization account. ➤ partners' capital account ➤ Bank account.	<u>and private debt.</u> <u>One person company</u> <u>Private Company</u> <u>Public Company</u> <u>Equity shares</u> <u>Preference shares</u> <u>Consideration other than cash</u> <u>Over-subscription</u> <u>Under-subscription</u> <u>Calls in arrears.</u> <u>Calls in advance.</u> <u>Pro-rata allotment.</u> <u>Forfeiture and reissue of shares</u>	Private Company, Public Company, Equity shares, Preference shares etc.	Equity shares, Preference shares Over-subscription, Under-subscription. to be integrated with subject Business Studies. & Work sheet based on CBSE exam	their provisions on Co. Act 2013.	of shares issued in the market, stock exchange, presentation of share capital in company's Balance Sheet, information for the necessary acts regarding dissolution of partnership firm etc.	the market, stock exchange, presentation of share capital in company's Balance Sheet, information for the necessary acts regarding dissolution of partnership firm etc.	*Picture based learning *Source based pedagogy *Oral drilling *Quizzing *Creating and engaging *Mind mapping etc	account and other related accounts. The students will be able to know and learn: the meaning of private placement of shares. The students will be able to know and learn: the accounting treatment of share capital transactions regarding issue of shares. The students will be able to know and learn: the understanding of accounting treatment of forfeiture and re-issue of forfeited shares. The students will be able to know and learn: the presentation of share capital in the balance sheet of the company as per schedule III part I of the company act 2013.
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Sept	05	Issue of Debentures ● Issue of debentures for cash at par, premium and discount from the point of view of redemption ● Issue of debentures for consideration other than cash ● Issue of debentures as collateral security ● Accounting treatment of interest on debentures ● Writing off discount or loss on issue of debentures	1.Acquisition of knowledge: To enable them to know- ➤ Meaning of debentures ➤ Features ➤ Difference between shares and debenture ➤ Types of debentures 2.Development of skills: To enable the students to develop the skills of calculating & treatment of: ➤ Issue of debentures for cash at par, premium and discount from the point of view of redemption ➤ Issue of debentures for consideration other than cash ➤ Issue of debentures as collateral security ➤ Accounting treatment of interest on debentures ➤ Writing off discount or loss on issue of debentures	<u>Debenture</u> <u>Redeemable debenture</u> <u>Convertible debenture</u> <u>Consideration on other than cash</u> <u>Collateral securities</u> <u>Debenture redemption reserve</u> <u>Debenture redemption investment</u> <u>Lump-sum method</u> <u>Conversion method</u>	Integrated with Painting and Sketch Poster of types of debentures issued by the company, methods used for redemption of debenture, provisions of company act regarding redemption of debenture etc	Some relevant topics in the chapter to be integrate with the other subjects. For example- One person company, Private Company, Public Company, types of debentures, shares Over-subscription, Under-subscription. to be integrated with subject Business Studies & Economics. & Work sheet based on CBSE exam	Project on any Indian Public Ltd. Co. about the types of debentures issued in the financial market and presentation of debenture in the balance sheet of the company as per schedule III part I of the company act 2013.	Face to face interaction through digital learning like educational video/ documentary on partnership deed/YouTube link of , several types of companies, types of debenture issued in the market, stock exchange, presentation of debenture in company's Balance Sheet as per schedule III part I of the company act 2013,	Audio visual learning Of types of debenture issued in the market, stock exchange, presentation of debenture in company's Balance Sheet company as per schedule III part I of the company act 2013.etc.	Conceptual learning *Thought provoking. *Critical thinking *Logical reasoning *Analyzing, *Comprehending *High order thinking *Assertion and Reasoning *Picture based learning *Source based pedagogy *Oral drilling *Quizzing *Creating and engaging *Mind mapping etc	The students will be able to know and learn: the understanding and skill of writing off discount/loss on issue of debenture. The students will be able to know and learn: the understanding the concept of collateral security and its presentation in balance sheet. The students will be able to know and learn: the skill of calculating interest on debenture and its accounting treatment. The students will be able to know and learn: the understanding of accounting treatment of transactions relating to redemption of debenture by lump-sum, conversion and creation of DRR.
Oct	13	PART - C Analysis of financial statements Format of balance sheet.	1.Acquisition of knowledge: To enable them to know-	<u>Vertical analysis</u> <u>Horizontal</u>	Integrated with Painting and Sketch	Some relevant topics in the chapter to be	Project on the comparative and common size income	Face to face interaction through digital learning like	Audio visual learning	Conceptual learning *Thought provoking.	The students will be able to know and learn: the understanding

		Heads and contents of balance sheet Preparation of comparative and common size income statement. Preparation of comparative and common size balance sheet Accounting ratios ● Liquidity Ratios: Current ratio; Liquid ratio ● Solvency ratios: Debt - equity ratio; Total assets to debt ratio; Proprietary ratio; Interest coverage ratio ● Activity ratios: Inventory turnover ratio; Trade receivable ratio; Trade payable ratio; working capital turnover ratio ● Profitability ratios: Gross profit ratio; Net profit ratio; Operating ratio; operating profit ratio; return on investment.	➤ Nature of financial statements ➤ Contents of annual report ➤ Objectives of financial statements ➤ Limitations of financial statements ➤ Format of balance sheet ➤ Heads and contents of balance sheet ➤ Comparative and common size income statement and balance sheet ➤ Meaning and purpose of comparative income statement ➤ Meaning and purpose of comparative balance sheet ➤ Meaning and purpose of common size income statement ➤ Meaning and purpose of common size balance sheet ➤ Meaning ➤ Objectives ➤ Limitations 2.Development of skills: To enable the students to develop the skills of calculating & treatment of:	<u>analysis</u> <u>Liquidity ratio</u> <u>Solvency ratio</u> <u>Profitability ratio</u> <u>Working capital</u> <u>Capital employed.</u> <u>Turnover ratio</u> <u>Average inventory</u> <u>EBIT</u> <u>EBT</u>	Poster of types ratio calculate by the company, formula used to calculate the ratio etc	integrate with the other subjects. For example- Ratio, percentage, times. to be integrated with subject Mathematics. & Work sheet based on CBSE exam	statement and balance sheet, accounting ratio calculated with the help of financial statement of any public ltd. Co.	educational video/ documentary on partnership deed/YouTube link of preparation of comparative and common size financial statement and calculation of different accounting ratio with the help of financial statement.	Of types of ratio calculate by the companies with the help of financial statement, preparation of comparative statement of intra and inter firm.	*Critical thinking *Logical reasoning *Analyzing, *Comprehending *High order thinking *Assertion and Reasoning *Picture based learning *Source based learning *Story telling pedagogy *Oral drilling *Quizzing *Creating and engaging *Mind mapping etc	of major headings and sub-heading of financial statement as per schedule III part I of the company act 2013. The students will be able to know and learn: the meaning of different tools of financial statement analysis. The students will be able to know and learn: the understanding of computation of current and quick ratio. The students will be able to know and learn: the skill of computation of different ratio's With the help of financial statement.
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			➤ Preparation of comparative and common size income statement ➤ Preparation of comparative and common size balance sheet. ➤ Classification of Ratios: ➤ Liquidity Ratios: Current ratio; Liquid ratio ➤ Solvency ratios: Debt - equity ratio; Total assets to debt ratio; Proprietary ratio; Interest coverage ratio ➤ Activity ratios: Inventory turnover ratio; Trade receivable ratio; Trade payable ratio; working capital turnover ratio ➤ Profitability ratios: Gross profit ratio; Net profit ratio; Operating ratio; operating profit ratio; return on investment								
Nov	22	Cash Flow Statement ● Computation of cash flow from different activates:	1.Acquisition of knowledge: To enable them to know-	<u>Direct method</u> <u>Indirect</u>		Work sheet based on CBSE exam	Comprehensive and specific projects on Cash flow of any	Face to face interaction through digital learning like	Audio visual learning operating	Conceptual learning *Thought provoking.	The students will be able to know and learn: the understanding

		● Cash flow from operating activities ● Cash flow from investing activities ● Cash flow from financing activities ● Preparation of cash flow statement.	➤ Meaning ➤ Objectives & Importance or uses of cash flow ➤ Limitations of cash flow 2.Development of skills: To enable the students to develop the skills of calculating & treatment of: ➤ Computation of cash flow from different activates: ➤ Cash flow from operating activities ➤ Cash flow from investing activities ➤ Cash flow from financing activities ➤ Preparation of cash flow statement. ➤ Project	<u>method</u> <u>Operating activities</u> <u>Non-operating activities</u> <u>Investing activities</u> <u>Financing activities.</u> <u>Accounting standard -3 revised.</u>			public Ltd.	educational video/ documentary on partnership deed/YouTube link of regarding the transaction of operating activities , Investing activities and Financing activities and prepare a cash flow with the help of financial statement.	activities, Investing activities and Financing activities and prepare a cash flow.	*Critical thinking *Logical reasoning *Analyzing, *Comprehending *High order thinking *Assertion and Reasoning *Picture based learning *Source based pedagogy *Story telling *Oral drilling *Quizzing *Creating and engaging *Mind mapping etc	of preparation of cash flow statement using indirect method as per AS-3 with given adjustments. The students will be able to know and learn: Identify the operating, investing and financing activities.
Dec	23	Revision	(Sample Paper)								
Jan	16	Revision	(Sample Paper)								
Feb											

SUBJECT : BUSINESS STUDIES
Text Book : 1. N.C.E.R.T

2. V.K Publication

Month	WD	Chapter/Sub-Topics	Learning Objectives	Key Terms and Concept	Art Integration	Inclusive Teaching	Project / Practical	Research Work Blended Learning	Smart Board Activity	Competency Based Activity Learning	Learning Outcomes
	NOP										
April	24	Nature and significance of management - Modern Concept of Management - meaning of management - Characteristics - Objectives of management - Importance of management - Nature of management - Levels of management - Functions of management - Coordination Principles of Management - Meaning of principles of management - Features - Importance of Management principles - Fayol's principles of management - Scientific management developed by F.W.Taylor - Comparison between Fayol and Taylor	1.Acquisition of knowledge: To enable them to know- Modern Concept of Management meaning of management Characteristics Objectives of management Importance of management Nature of management Meaning of principles of management Features Importance of Management principles 2.Development of understanding: *To enable students to understand Levels of management Functions of management Coordination Fayol's principles of management Scientific management developed by F.W. Taylor 3.Development of skills *To enable the students to develop the skills Comparison between Fayol and Taylor	<u>Effectiveness & Efficiency.</u> <u>management as a science, art and profession.</u> <u>Levels of management-</u> <u>Top level</u> <u>Middle level</u> <u>Lower level</u> <u>Coordination.</u> <u>Techniques of scientific management.</u> <u>Time study</u> <u>Motion study</u> <u>Method study</u> <u>Fatigue study</u> <u>Principles of management.</u> <u>Gang plank</u> <u>Spam of Management</u> <u>Grapevine</u>	Integrated with Painting and Sketch Poster of principles of management, scientific principle of management, levels of management and the people included in it etc. Poster Making	Some relevant topics in the chapter to be integrate with the other subjects. Levels of management and their functions is to be integrated with subject Accountancy. Work sheet based on CBSE exam	Project on evaluation on management principle Project on work of F. W. Taylor	Face to face interaction through digital learning like educational video/ documentary /YouTube link of importance of management, functions of management, principles of management etc.	Audio visual learning of importance of management, functions of management, principles of management.	Conceptual learning *Thought provoking. *Critical thinking *Logical reasoning *Analyzing, *Comprehending *High order thinking *Assertion and Reasoning *Picture based learning *Story telling pedagogy *Oral drilling *Quizzing *Creating and engaging *Mind mapping etc.	The students will be able to know and learn: the concept of management. The students will be able to know and learn: the meaning of Effectiveness & Efficiency. The students will be able to know and learn: the importance of management. The students will be able to know and learn: the nature of management as a science, art and profession. The students will be able to know and learn: the concept of principles of management. The students will be able to know and learn: the contribution of Fayol & Taylor.

May	08	Business Environment • Meaning of Business Environment • Features / Nature of business environment • Importance of business environment • Dimensions of business environment • The features of new economic policy	1.Acquisition of knowledge: To enable them to know- Meaning of Business Environment Features / Nature of business environment 2.Development of understanding: *To enable students to understand Importance of business environment Dimensions of business environment 3.Development of skills *To enable the students to develop the skills The features of new economic policy	<u>Business Environment</u> <u>Social Environment</u> <u>Political environment</u> <u>Technological Environment</u> <u>Legal Environment</u> <u>Demonetization</u> <u>Liberalization, Privatization & globalization.</u>	Integrated with Painting and Sketch Poster of Dimension of Business environment (Social, Political, Technological, Legal etc.)	Some relevant topics in the chapter to be integrate with the other subjects. Demonetization, Liberalization, Privatization & globalization. is to be integrated with subject Economics. & Work sheet based on CBSE exam	Project on different dimensions of business environment which effect the business organisation.	Face to face interaction through digital learning like educational video/ documentary/YouTube link of dimensions of business environment which effect the business organization, Demonetization, Liberalization, Privatization & globalization . etc.	Audio visual learning of different dimensions of business environment which affect the business organization.	Conceptual learning *Thought provoking. *Critical thinking *Logical reasoning *Analyzing, *Comprehending *High order thinking *Assertion and Reasoning *Picture based *Source based learning *Story telling pedagogy *Oral drilling *Quizzing *Creating and engaging *Mind mapping etc.	The students will be able to know and learn: the concept of Business Environment & its importance. The students will be able to know and learn: the various dimensions of Business Environment. The students will be able to know and learn: the managerial response to change in business environment.
June	14	Planning • Meaning of planning • Features of planning • Importance of planning • Limitations of planning • Planning process • Types of plans Organizing • Concept of organizing • Features of organizing • Organizing process	1.Acquisition of knowledge: To enable them to know- Meaning of planning Features of planning Importance of planning Limitations of planning Concept of organizing Features of organizing Significance/ importance of organizing. 2.Development of understanding: *To enable students to understand	<u>Single and standing plans.</u> <u>Budget & programme.</u> <u>Organizing structure</u> <u>Functional & divisional structure.</u> <u>Formal & informal organization.</u> <u>Delegation & Decentralization.</u>	Integrated with Painting and Sketch Poster of planning process, organizational structure, formal & informal organization, functional & divisional structure Delegation & decentralization.	Some relevant topics in the chapter to be integrate with the other subjects. Framing of planning commission and its implementation is integrated with subject political science & Economics. & Work sheet based on CBSE exam	Project on organizational structure and the list of the directors / managers and their working style.	Face to face interaction through digital learning like educational video/ documentary/YouTube link of dimensions of types of plan prepared by the management of an	Audio visual learning of different types of plans prepared by the management of an organization.	Conceptual learning *Thought provoking. *Critical thinking *Logical reasoning *Analyzing, *Comprehending *High order thinking *Assertion and Reasoning *Picture based *Source	The students will be able to know and learn: the concept of planning. The students will be able to know and learn: the importance & limitations of planning. The students will be able to know and learn: an understanding of single and

		Significance/ importance of organizing.	Planning process Plan Types of plans Organizing process Delegation & Decentralization.					organizational, how the functional and divisional structure framed.		based learning *Story telling pedagogy *Oral drilling *Quizzing *Creating and engaging *Mind mapping etc.	standing plans. The students will be able to know and learn: the concept of organizing as a structure and as a process. The students will be able to know and learn: the steps in the process of organizing. The students will be able to know and learn: the concept of delegation and decentralization.
July	26	Organizing - Organizational structure - Formal and informal organization - Delegation of authorities - Centralization and decentralization Staffing - Concept - Importance of staffing - Staffing and human resource management - Staffing process - Components/ Elements/ Aspects of staffing - Methods of training: on the job and off the job	Organizational structure Formal and informal organization Delegation of authorities Centralization and decentralization 1.Acquisition of knowledge: To enable them to know- Concept Importance of staffing Staffing and human resource management 2.Development of understanding: *To enable students to understand Staffing process Components/ Elements/ Aspects of staffing Methods of training:	<u>Specialized duties of management.</u> <u>Recruitment and its resources.</u> <u>External and internal sources of recruitment.</u> <u>On the job and off the job training.</u> <u>Induction training, vestibule training, apprenticeship training and internship training.</u>	Integrated with Painting and Sketch Poster of organizational chart of TISCO & Staffing process of Infosys	Some relevant topics in the chapter to be integrate with the other subjects. Internship, vestibule etc. are integrated with Economics. & Work sheet based on CBSE exam	Project on organizational chart of TISCO & Staffing process of Infosys	Face to face interaction through digital learning like educational video/ documentary/YouTube link of Induction training, vestibule training, apprenticeship training, and internship training, On the job and off the job training, Recruitment, and its sources.	Audio visual learning of Induction training, vestibule training, apprenticeship training and internship training, On the job and off the job training, Recruitment, and its sources.	Conceptual learning *Thought provoking. *Critical thinking *Logical reasoning *Analyzing, *Comprehending *High order thinking *Assertion and Reasoning *Picture based *Source based learning *Story telling pedagogy *Oral drilling	The students will be able to know and learn: the importance of decentralization. The students will be able to know and learn: the importance of delegation. The students will be able to know and learn: Diff. Between delegation & decentralization. The students will be able to know and learn: the concept and importance of staffing.

			on the job and off the job					t, and its sources.		*Quizzing *Creating and engaging *Mind mapping etc.	The students will be able to know and learn: the specialization duties and activities performed by Human Resource Management. The students will be able to know and learn: the meaning and source of recruitment. The students will be able to know and learn: on the job and off the job training.
Aug	22	Directing • Meaning and Introduction • Features of Directing • Importance of directing • Elements of directing • Supervision • Motivation • Leadership • Communication Controlling • Concept • Nature of controlling • Importance of controlling • Relationship between planning and controlling • Controlling process	1.Acquisition of knowledge: To enable them to know- Meaning and Introduction Features of Directing Importance of directing Elements of directing Concept Nature of controlling Importance of controlling 2.Development of understanding: *To enable students to understand: - Supervision. Motivation Leadership Communication Barriers of	<u>Motivation</u> <u>Maslow's Hierarchy of need.</u> <u>Financial & non-financial incentives.</u> <u>Leadership and its various styles.</u> <u>Formal & informal communication.</u> <u>Barriers of communication.</u> <u>Controlling and its process.</u>	Integrated with Painting and Sketch Poster of Maslow's Hierarchy of need, Barriers of communication.	Some relevant topics in the chapter to be integrate with the other subjects. Leadership integrates with Economics & political science. Motivation is integrated with moral science and live skill. & Work sheet based on CBSE exam	Project on Financial & non-financial incentives provided by TATA Steel Ltd.	Face to face interaction through digital learning like educational video/ documentary/YouTube link of Maslow's Hierarchy of need, Financial & non-financial incentives, Leadership and its various styles, Barriers of communication.	Audio visual learning of Maslow's Hierarchy of need, Financial & non-financial incentives, Leadership and its various styles, Barriers of communication.	Conceptual learning *Thought provoking. *Critical thinking *Logical reasoning *Analyzing, *Comprehending *High order thinking *Assertion and Reasoning *Picture based *Source based learning *Story telling pedagogy *Oral	The students will be able to know and learn: the concept and importance of directing. The students will be able to know and learn: an understanding of Maslow's Hierarchy of needs. The students will be able to know and learn: the concept of leadership and its various styles. The students will be able to

			communication. 3.Development of skills *To enable the students to develop the skills: - Relationship between planning and controlling Controlling process					tion.		drilling *Quizzing *Creating and engaging *Mind mapping etc.	know and learn: the various barriers of effective communication. The students will be able to know and learn: the concept and importance of Controlling. The students will be able to know and learn: the relationship between planning and controlling. The students will be able to know and learn: The Steps in the process of controlling.
Sept	05	PART- B Financial management • Meaning and characteristics of financial management • Objectives of financial management • Financial decisions • Financial planning • Capital structure. • Fixed and working capital. • Working capital (Short term investment decision)	1.Acquisition of knowledge: To enable them to know- Meaning and characteristics of financial management Objectives of financial management Meaning of Financial market. Features of financial market Money Market. Capital market. 2.Development of understanding: *To enable students to understand: -Financial decisions.	<u>Financial management.</u> <u>Investment, financing and dividend dicision.</u> <u>Capital structure.</u> <u>Fixed & working capital.</u> <u>Financial market.</u> <u>Capital market & money market.</u> <u>Call money, treasury bill, trade bill.</u>	Integrated with Painting and Sketch Poster of Instruments use to collect money from money market & capital market, functions of SEBI.	Some relevant topics in the chapter to be integrate with the other subjects. Money market & stock exchange integrates with Economics.	Project on objective & functions of SEBI.	Face to face interaction through digital learning like educational video/ documentary/YouTube link of Investment, financing and dividend dicision, Capital market & money market,	Audio visual learning of Investment, financing and dividend dicision, Capital market & money market, functions of SEBI.	Conceptual learning *Thought provoking. *Critical thinking *Logical reasoning *Analyzing, *Comprehending *High order thinking *Assertion and Reasoning *Picture based *Source based learning	The students will be able to know and learn: the concept and importance of financial management. The students will be able to know and learn: the role of financial management in an organization. The students will be able to know and learn: the three financial

		Financial Market • Meaning of Financial market • Features of financial markets • Money Market • Tools of money market • Capital market. • Tools of capital market • Stock Exchange	Financial planning Capital structure. Fixed and working capital. Working capital 3.Development of skills *To enable the students to develop the skills: - Tools of money market Tools of capital market Stock Exchange	<u>Primary market and secondary market.</u> <u>Stock exchange.</u> <u>SEBI</u>				functions of SEBI.		*Story telling pedagogy *Oral drilling *Quizzing *Creating and engaging *Mind mapping etc.	dicisions and factors affecting it. The students will be able to know and learn: the concept and importance of financial market. The students will be able to know and learn: capital market and money market as types of financial market. The students will be able to know and learn: various money market instruments. The students will be able to know and learn: primary and secondary market and its diff. The students will be able to know and learn: of flotation of new issue in the primary market. The students will be able to know and learn: the objectives and functions of SEBI.
Oct	13	Marketing Management	1.Acquisition of knowledge:	<u>Marketing philosophy.</u>	Integrated with Painting and	Some relevant topics in the	Project on marketing	Face to face	Audio visual learning of	Conceptual learning	The students will be able to

		• Meaning of Marketing management • Marketing • What can be marketed? • Marketing and selling • Marketing management philosophy • Functions of marketing • Marketing mix • Advertisement • Sales promotion & Tools	To enable them to know- Meaning of Marketing management Marketing 2.Development of understanding: *To enable students to understand: - What can be marketed? Marketing and selling Marketing management philosophy Functions of marketing	<u>Marketing mix.</u> <u>Branding, labelling and packaging.</u> <u>Physical distribution and its challels.</u> <u>Promotion mix.</u> <u>Advertising.</u> <u>Sales promotion</u> <u>Public relation.</u>	Sketch Poster of Sales promotion, slogans for publicity of product in market.	chapter to be integrate with the other subjects. Marketing strategy integrates with Economics.	management of a particular product.	interaction through digital learning like educational video/ documentar y/YouTube link of Branding, labelling and packaging. Physical distribution and its challels, Promotion mix, Advertising, Sales promotion, Public relation.	Branding, labelling and packaging. Physical distribution and its challels, Promotion mix, Advertising, Sales promotion, Public relation.	*Thought provoking. *Critical thinking *Logical reasoning *Analyzing, *Comprehen ding *High order thinking *Assertion and Reasoning *Picture based *Source based learning *Story telling pedagogy *Oral drilling *Quizzing *Creating and engaging *Mind mapping etc.	know and learn: the concept ,features,function s & importance of marketing. The students will be able to know and learn: the marketing philosophies. The students will be able to know and learn: the concept of marketing mix. The students will be able to know and learn: the elements of marketing mix. The students will be able to know and learn: the concept branding, labelling and packaging.
Nov	22	Consumer protection • Importance of consumer protection • Legal protection to consumers. • Consumer rights • Consumers responsibilities • Redressal agencies under the consumer protection Act 1986 and their jurisdiction • Role of consumer organization and NGOs	1.Acquisition of knowledge: To enable them to know- Importance of consumer protection Legal protection to consumer 2.Development of understanding: *To enable students to understand: - Consumer rights Consumers responsibilities Redressal agencies under the consumer	<u>Consumer protection.</u> <u>Consumer protection Act.</u> <u>Redresasal machinery</u> <u>Remedies.</u> <u>NGOs</u>	Integrated with Painting and Sketch Poster of Consumer rights Consumers responsibilities Redressal agencies under the consumer	Some relevant topics in the chapter to be integrate with the other subjects. Consumer rights Consumers responsibilities integrates with Economics.	Project on Redressal agencies under the Consumer rights Consumers responsibilities	Face to face interaction through digital learning like educational video/ documentar y/YouTube link of protection Act 1986 and their jurisdiction	Audio visual learning of Redressal agencies under the consumer protection Act 1986 and their jurisdiction	Conceptual learning *Thought provoking. *Critical thinking *Logical reasoning *Analyzing, *Comprehen ding *High order thinking *Assertion and Reasoning *Picture based *Source	The students will be able to know and learn: the concept and importance of consumer protection. The students will be able to know and learn: the scope of consumer protection act 1986 The students will be able to know and learn:

			protection Act 1986 and their jurisdiction Role of consumer							based learning *Story telling pedagogy *Oral drilling *Quizzing *Creating and engaging *Mind mapping etc.	the consumer rights and responsibilities. The students will be able to know and learn: the role of consumer organizations and NGOs.
Dec	23	Revision	(Sample Paper)								
Jan	16	Revision	(Sample Paper)								
Feb	00										

SUBJECT: PHYSICAL EDUCATION

Textbook: 1. SARASWATI PUBLICATION

Month	WD	Chapter/Sub-Topics	Learning Objectives	Key Terms and Concept	Art Integration	Inclusive Teaching	Project / Practical	Research Work Blended Learning	Smart Board Activity	Competency Based Activity Learning	Learning Outcomes
April	24	<u>CH - 1 = MANAGEMENT OF SPORTING EVENTS</u> Functions of sports events Management (Planning, Organizing, Staffing, Directing & Controlling) Various Committees & their responsibilities (Pre, during & post) - Fixtures and its procedures – Knock-out (Bye & Seeding) & League (Staircase & Cyclic) - Intramural and Extramural – Meaning, Objectives and its Significance. Community Sports – Purpose and benefits. <u>CH - 2 = Children & women in Sports</u> - Exercise guidelines of WHO for different age groups	Learn about fixtures and postural deformities.	Planning, organizing, Staffing, Directing & Controlling	Poster Making of various committees and fixtures.	NA	Diagram making of Planning and fixtures.	NA	NA		Learn about fixtures and postural deformities.

		- Common postural deformities-knock knees, flat foot, round shoulders, Lordosis, Kyphosis, Scoliosis and bowlegs and their respective corrective measures. - Women participation in Sports – Physical, Psychological and Social benefits - Special consideration (menarche and menstrual dysfunction) - Female athlete triad (osteoporosis, amenorrhea, eating disorders)								
May	08	<u>CH - 3 = Yoga as Preventive measure for lifestyle Disease</u> - Procedure, Benefits & Contraindication: - Obesity - Diabetes - Asthma - Hypertension - Back Pain and Arthritis	Learn about yoga and its benefits in various diseases.	Procedure, Benefits & contraindication of Obesity, diabetes, Asthma and Hypertension.	<u>Yoga chart making by students</u>	NA	Practical file making.	NA	NA	Learn about yoga and its importance
June	14	<u>CH - 4 = Physical Education & Sports for CWSN (children with special Needs – Divyang)</u> - Organizations promoting Disability Sports (Special Olympics; Paralympics. Deaflympics). - Concept of Classification and Division Sports. - Concept of Inclusion in sports, its need and Implementation. - Advantages of Physical Activities for children with special needs. - Strategies to make Physical Activities assessable for children with special Needs	Learn about the specially challenged students and their needs (divyang)	Special Olympics, Paralympics, Deaflympics	Chart making of all Olympics	NA	Practical file making.	NA		Learn about the specially challenged students and their needs (divyang)
July	26	<u>CH - 5 = SPORTS & NUTRITION</u> Concept of Balanced Diet and Nutrition		- Concept of balanced diet, - Macro and	Picture chart making of fitness test.	NA	Practical file making.	NA	NA	Learn about nutrition

	• Macro and Micronutrients: Food sources and functions • Nutritive and Non- Nutritive Components of Diet • Eating for Weight control – A Healthy Weight, The Pitfalls of Dieting, Food • Intolerance and Food Myths • Importance of Diet in Sports-Pre, During and Post competition Requirements <u>CH - 6 = Test & Measurement in Sports</u> - . Fitness Test – SAI Khelo India Fitness Test in school [Age group 5-8 yrs./ class 1-3: BMI, Flamingo Balance Test, Plate Tapping Test; Age group 9-18yrs/ class 4-12: BMI, 50mt Speed test, 600mt Run/Walk, Sit & Reach flexibility. test, Strength Test (Abdominal Partial Curl Up, Push-Ups for boys, Modified Push-Ups for girls)]. . Measurement of Cardio-Vascular Fitness – Harvard Step Test – Duration of the Exercise in Seconds x100/5.5 X Pulse count of 1-1.5 Min after Exercise. . Computing Basal Metabolic Rate (BMR). . Rikli & Jones - Senior Citizen Fitness Test - Chair Stand Test for lower body strength, Arm Curl Test for upper body strength, Chair Sit & Reach Test for lower body flexibility, Back Scratch Test for upper body flexibility, Eight Foot Up & Go Test for agility, Six Minute Walk Test for Aerobic Endurance. . Johnsen – Methney Test of Motor Educability (Front Roll, Roll, Jumping Half-Turn, Jumping full turn)	Learn about nutrition	Micronutrients • Nutritive and Non-Nutritive components Fitness test – SAI KHELO INDIA BMR SENIOR CITIZEN FITNESS TEST							Various types of tests in sports for identifying the skills
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Aug	22	<u>CH - 7 = Physiology & Injuries in Sports</u> Physiological factors determining components of Physical Fitness • Effect of exercise on Muscular System • Effect of exercise on Cardio-Respiratory System • Physiological changes due to ageing • Sports injuries: Classification (Soft Tissue Injuries – Abrasion, Contusion, Laceration, Incision, Sprain & Strain; Bone & Joint Injuries - Dislocation, Fractures - Green Stick, Comminuted, Transverse, Oblique & Impacted)	Learn about the injuries and their treatment of the athletes.	Components of physical fitness, Effect of exercise on MUSCULAR SYSTEM, CARDIO-RESPIRATORY SYSTEM SPORTS INJURIES	Making of sports injuries Chart.	NA	Practical file making.	NA	NA	Learn about the injuries and their treatment of the athletes.
Sep	05	<u>CH - 8 = Biomechanics & Sports</u> Newton's Law of Motion & its application in sports. • Types of Levers and their application in Sports. • Equilibrium Dynamic and Static and Centre of Gravity and its application in sports • Friction and Sports • Projectile in Sports <u>CH - 9 = Psychology & sports</u> . Personality; its definition & types (Jung Classification & Big Five Theory). • Motivation, its type & techniques. • Exercise Adherence: Reasons, Benefits & Strategies for Enhancing it. • Meaning, Concept & Types of Aggressions in Sports. • Psychological Attributes in Sports – Self Esteem, Mental Imagery, Self Talk, Goal Setting.	Learn about the body movements. And factors affecting it Learn about the behavior, types and its management of the athletes	-Newton's law and its application in sports. -Equilibrium -Centre of gravity -Friction -Projectile Personality's – Definition and types Jung classification, Big five theory. Aggression, Psychological attributes, Self-esteem, Mental imagery, Self-talk, Goal setting.	Picture chart making of Jung classification and big five theory.	NA	Practical file making.	NA	NA	Learn about the body movements. And factors affecting it Learn about the behavior,, types and its management of the athletes

Oct	13	<u>CH - 10=</u> <u>Training in Sports</u> • Concept of Talent Identification and Talent Development in Sports • Introduction to Sports Training Cycle – Micro, Meso, Macro Cycle. • Types & Methods to Develop – Strength, Endurance, and Speed • Types & Methods to Develop – Flexibility and Coordinative Ability	Learn about the various types of training method and its importance	• Talent identification • Talent development, • Sports training cycle – Micro, Meso and Macro • Types and method to develop – • ENDURANCE • SPEED • FLEXIBILITY • COORDINATIVE ABILITY.	Pictorial chart making of sports training cycle	NA	Practical file making.	NA	NA		Learn about the various types of training method and its importance
Nov	22	REVISIONS & CHAPTERWISE TEST	NA								
Dec	23	REVISIONS & CHAPTERWISE TEST	NA								
Jan	16	REVISIONS & CHAPTERWISE TEST	NA								
Feb											
March											

SUBJECT :GRAPHICS

Text Book : 1. History of Indian art part 2 (NCERT)
PANORMIC INDIAN PAINTING

Month	Chapter/Sub-Topics	Learning Objectives	Key Terms and Concept	Art Integration	Inclusive Teaching	Project / Practical	Research Work Blended learning	Smart Board Activity	Competency Based Activity Learning	Learning Outcomes
APRIL	Making Graphic Layout to Stencil of Mylar sheet/Silk screen And taking Print Theory; Chapter – 1 Introduction to Indian Miniature School a. Origin & Development b. Sub- Schools c. Features of the School Appreciation of	Learning about Manuscript Painting done in our Upanishad and Purana and Buddhist	Elements of art Knowledge of manuscript Knowing Indian artists during Rajput period , their paintings, Technique, And Feature ,	History- our ancient books	History- our ancient books Handling, various	Making Graphic Layout to Stencil of Mylar sheet/Silk screen And	To find out no. of scripts used in India			

	2.Rajasthani school of miniature a. Origin & Development b. Sub- Schools c. Features of the School Appreciation of . 1.Maru Ragini 2.Chaugan Players a. Origin & Development b. Sub- Schools c. Features of the School Appreciation of	and Jainism books	Themes of paintings		s tools used in making stencil s, or silk screen printing	taking Print				
	3.Krishna on Swing 3.Radha Bani Thani 4.Bharat Meets Rama at Chitrakoot									
	2. Pahari School of miniature Painting a. Origin & Development b. Sub- Schools c. Features of the School Appreciation of 1.Krishna with Gopis 2.Nand Yashoda and Krishna with Kinsmen going to Vrindavan Making of Graphic Layout to Stencil of Mylar sheet/Silk screen And taking Print									
MAY	Making of Graphic Layout to Stencil of Mylar sheet/Silk screen And taking Print Revision of chapter 1,2,3	Learning about	Origin and development of Rajasthani art and its sub school	History- our ancient books	History- our ancient	Making Graphic Layout to Stencil of	To know our rich			
	Theory; Chapter -2 The									

	Rajasthani School of Painting	Rajasthani Miniature	Indian artists during Rajput period , their paintings, Technique, And Feature , Themes of paintings	Handling, various tools used in making stencils, or silk screen printing	t books Handling, various tools used in making stencils, or silk screen printing	Mylar sheet/Silk screen And taking Print	culture heritage			
	Practical - Landscape painting in water colour									
	Practical - Landscape painting in water colour									
JUNE		Learning about Rajasthani Miniature	Indian artists during Mughal period , their paintings, Technique, And Feature , Themes of paintings	In maths in various topics as trigonometry, mensuration History- our ancient books Handling, various tools	In maths in various topics as trigonometry, mensuration History- our ancient books	Making Graphic Layout to Stencil of Mylar sheet/Silk screen And taking Print	To learn our cultural heritage			
	Making of Graphic Layout to Stencil of Mylar sheet/Silk screen And taking Print Chapter-4 Mughal School of Miniature Painting a. Origin & Development b. Sub- Schools c. Features of the School Appreciation of 1.Krishna Lifting Mt. Govardhan 2.Falcon on Bird Rest 3.Kabir and Raidas Making of Graphic Layout to Stencil of Mylar sheet/Silk screen And taking Print									

	4. Marriage Procession of Dara Shikoh Chapter-5 Deccan School of Miniature Painting a. Origin & Development b. Sub- Schools c. Features of the School Appreciation of. 1.Chand Bibi Playing Polo 2.Hazrat Nizamuddin Auliya &Amir Khusro			used in making stencils , or silk screen printing	Handling, various tools used in making stencils, or silk screen printing					
	Making Graphic Layout to Stencil of Mylar sheet/Silk screen And taking Print									
JULY	Theory chapter -5 Deccan School of Miniature Painting a. Origin & Development b. Sub- Schools c. Features of the School Appreciation of. 1.Chand Bibi Playing Polo 2.Hazrat Nizamuddin Auliya &Amir Khusro REVISION	Learning about Deccan miniature, Sub Schools like Ahmad Nagar Golkonda Bijapur Hyderabad Tanjore	Origin and development of Deccan art and its sub school Indian artists during Deccan period , their paintings, Technique, And Feature , Themes of paintings	Shapes and mensuration maths	Shapes and mensuration maths	Making Graphic Layout to Stencil of Mylar sheet/Silk screen And taking Print	To learn our cultural heritage			
	REVISION OF CHAPTER 4 & 5 Making Graphic Layout to Stencil of Mylar sheet/Silk screen And taking Print									
	Theory. Chapter 6 New Era in Indian Art Chapter-7									

	National Flag of India and the Symbolic Significance of its form and colors									
	Chapter-8 The Bengal School of Painting a. Origin & Development b. Sub- Schools c. Features of the School									
AUG	Chapter-9 Appreciation of following Bengal school Paintings. 1.Journeys end 2.Shiv and Sati Chapter 10 Contribution by Indian Artists towards National Freedom movement	<u>Learning about art work done in southern part of India, Bijapur, Golconda etc</u>	Origin and development of Deccan art and its sub school	Shapes and mensuration maths History- our ancient books Handling, various tools used in making stencils, or silk screen printing	Shape s and mensu ration maths Histor y- our ancient books Handling, variou s tools used in makin g stencil s, or silk screen printin g	Making Graphic Layout to Stencil of Mylar sheet/Silk screen And taking Print	To learn our cultural heritage			
	3.Radhika 4.Meghdoot									
	Revision chapter 7,8,9,10 (Bengal School) Making Graphic Layout to Stencil of Mylar sheet/Silk screen And taking Print									
	REVISION FOR TERM -1 Making Graphic Layout to Stencil of Mylar sheet/Silk screen And taking Print									
SEPT	REVISION FOR TERM -1 CHAPTER 1 TO 5	<u>To learn art work of</u>	Origin and development of			Making Graphic Layout to	To learn our			
	REVISION FOR TERM -1									

	CHAPTER 6 TO 10	<u>Kangra, Kulu, Chamba, Jammu in Himalayan region</u>	Pahari art and its sub school			Stencil of Mylar sheet/Silk screen And taking Print	cultural heritage			
	Term 1 exam									
	Term 1 exam									
OCT	CHAPTER 11 Introduction to Modern Trends in Indian Art. Practical -Making Graphic Layout to Stencil of Mylar sheet/Silk screen And taking Print CHAPTER 12 Painting of Contemporary (Modern) Indian Artists 1. Mother and child 2. Haldi Grinder 3. Mother Teresa 4. Ram Vanquishing The pride of Ocean	<u>To learn about Art and Famous Artist of Bengal area.</u>	Origin and development of Bengal art and its sub school	Shapes and mensuration maths History- our ancient books Handling, various tools used in making stencils, or silk screen printing	Shape s and mensuration maths History- our ancient books Handling, various tools used in making stencils, or silk screen printing	Making Graphic Layout to Stencil of Mylar sheet/Silk screen And taking Print	To learn our cultural heritage			
	CHAPTER -13 Graphic Prints of Contemporary (Modern) Indian Artists 1.The Children 2.The Devi 3.Of Walls 4. Man women and Tree									
	CHAPTER -14 Sculptures of Contemporary(Modern) Artists. 1.Triumph of Labour 2.Santhal family 3.Cries Unheard 4.Ganesha									

	Practical- -Making Graphic Layout to Stencil of Mylar sheet/Silk screen and taking Print Total 10 layout +10 Prints									
NOV	Theory; REVISION OF CHAPTER 12, 13 And 14	Here we will learn about modern Artist like Yamini Roy , Ram Kinkar, This chapter will deal with folk art of Indian traditions . god, goddess, etc	Origin and development of The Modern Indian Art art and its sub school	History- our ancient books Handling, various tools used in making stencils, or silk screen printing	Histor y- our ancient books Handlin g, various tools used in making stencils, or silk screen printing		To learn our cultural heritage To learn our cultural heritage			
	Theory; REVISION OF CHAPTER 12, 13 And 14									
	TERM 2 EXAM									
	TERM 2 EXAM									
DEC	PRE-BOARD -1									
	PRE-BOARD -1									
JAN	PRE-BOARD -2									
	PRE-BOARD -2									
FEB										

SUBJECT: HINDUSTANI MUSIC (VOCAL)

Month	WD	Chapter/Sub-Topics	Key Terms and Concept	Art Integration	Project / Practical	Research Work Blended Learning
	NOP					
April	24	Brief study of the following :- Alankar, Kan, Meend, Khatka, Murki, Gamak Taal - “ Rupak Dhamar and Jhaptaal ” Parichay with Tala Notation and hand Demonstration with Thah, Dugun, Tigun and Chaugun Laykari.	Key Terms ➤ Taali ➤ Matra ➤ Bibhag ➤ Swar ➤ Khali ➤ Theka ➤ Alankar ➤ Ekgun	Integration with Songs in this Particular taals	Making Project file regarding this Taals and different Variations of it	Finding About other Taal which contains same no of mastras
May	08					
June	14	Brief study of the following Gram, Murchhana, Alap,Tana. Raag - Bhairav & Bageshri (Parichay and One Drut Khayal with simple elaborations and few tanas along with Tarana and Dhamar)	Key Terms ➤ Jaati ➤ Thaati ➤ Vadi ➤ Samwadi ➤ Aaroh ➤ Avroh ➤ Pakad	Integration with Songs in this Particular Raag	Making projects regarding this raag Tarana and Dhamar for this	NO
July	226					
Aug	22	Detail study of the following ➤ Sangeet Ratnakar ➤ Sangeet Parijat Life sketch and Contribution ➤ Faiyaz Khan, ➤ Bade Ghulam Ali Khan, Raag - Malkoush and Suddh Sarang (Parichay and One Drut Khayal with simple elaborations and few tanas along with Tarana and Dhamar) Life sketch and Contribution Krishna Rao Shankar Pandit	Key Terms ➤ Origin ➤ Writer ➤ Concepts ➤ Valuable works ➤ Musical background of the Artists ➤ Gharana Key Terms ➤ Jaati ➤ Thaati ➤ Vadi ➤ Samwadi ➤ Aaroh ➤ Avroh Pakad	Integration with real life events of them and interviews Integration with Songs in this Particular Raag	Writing about them in Describe mannor in project file Writing the notation of Bandish along with tha taal script	NO
Sept	23	➤ Tuning of Tanpura ➤ Historical development of Time Theory of Ragas	Key Terms ➤ 4 Taar ➤ Aati ➤ Khunti ➤ Tumba	Integration with the raag timings and swar	Project Regarding the Time theory And Concept of Poorvang and Utraang Swar Raag	NO

			➤ Tabli ➤ Sandhiprakash ➤ Purvang Uttarang			
Oct	13	Revision				
Nov	22					
Dec	23	Revision				
Jan	16					
Feb						

CLASS - XII

SUBJECT: HINDUSTANI MUSIC (VOCAL)

Month	WD	Chapter/Sub-Topics	Key Terms and Concept	Art Integration	Project / Practical	Research Work Blended Learning
	NOP					
April	24	Brief study of the following :- Alankar, Kan, Meend, Khatka, Murki, Gamak Taal - “ Rupak Dhamar and Jhaptaal ” Parichay with Tala Notation and hand Demonstration with Thah, Dugun, Tigun and Chaugun Laykari.	Key Terms	Integration with Songs in this Particular taals	Making Project file regarding this Taals and different Variations of it	Finding About other Taal which contains same no of mastras
May	08		➤ Taali ➤ Matra ➤ Bibhag ➤ Swar ➤ Khali ➤ Theka ➤ Alankar ➤ Ekgun			
June	14	Brief study of the following Gram, Murchhana, Alap, Tana. Raag - Bhairav & Bageshri (Parichay and One Drut Khayal with simple elaborations and few tanas along with Tarana and Dhamar)	Key Terms	Integration with Songs in this Particular Raag	Making projects regarding this raag Tarana and Dhamar for this	NO
July	226		➤ Jaati ➤ Thaati ➤ Vadi ➤ Samwadi ➤ Aaroh ➤ Avroh ➤ Pakad			
Aug	22	Detail study of the following ➤ Sangeet Ratnakar ➤ Sangeet Parijat Life sketch and Contribution ➤ Faiyaz Khan, ➤ Bade Ghulam Ali Khan,	Key Terms ➤ Origin ➤ Writer ➤ Concepts ➤ Valuable works ➤ Musical background of	Integration with real life events of them and interviews	Writing about them in Describe mannor in project file	NO

		Raag - Malkoush and Suddh Sarang(Parichay and One Drut Khayal with simple elaborations and few tanas along with Tarana and Dhamar) Life sketch and Contribution Krishna Rao Shankar Pandit	the Artists ➤ Gharana Key Terms ➤ Jaati ➤ Thaat ➤ Vadi ➤ Samwadi ➤ Aaroh ➤ Avroh Pakad	Integration with Songs in this Particular Raag	Writing the notation of Bandish along with tha taal script	
Sept	23	➤ Tuning of Tanpura ➤ Historical development of Time Theory of Ragas	Key Terms ➤ 4 Taar ➤ Aati ➤ Khunti ➤ Tumba ➤ Tabli ➤ Sandhiprakash ➤ Purvang Uttarang	Integration with the raag timimngs and swar	Project Regarding the Time theory And Concept of Poorvang and Utraang Swar Raag	NO
Oct	13	Revision				
Nov	22					
Dec	23	Revision				
Jan	16					
Feb						

SUBJECT: GENERAL STUDIES

Textbook:

Month	WD	Chapter/ Sub-Topics	Learning Objectives	Key Terms and Concept	Art Integration	Inclusive Teaching	Project / Practical	Research Work Blended Learning	Smart Board Activity	Competency Based Activity Learning	Learning Outcomes
April	24	Science and Society	Students will learn about Science and its uses in our day to day life. They will also be able to connect their knowledge in their daily activity.	I. The Nature of Science. Different aspects of Science II. Science as a social enterprise. The manner in which modern Science and technology shape modern culture, values, and institutions on one hand and how modern values shape Science and technology on the other. The progress of Science-major landmarks in the history of Science in India. III. The Scientific spirit Scientific attitude Dispelling superstitions and myths. Assistive technology for the differently able. IV. Current Affairs	do a small project, where they identify a problem, frame hypothesis, gather data and analyze it to test the hypothesis.	Make a water purifier with daily purpose elements.	A debate for the whole class on 'Science a boon or curse'.	enumerate ways in which Science and technology have changed lives particularly in the context of differently abled children	N/A	How do we talk to a person who is sitting far from us in mobile phones? What is science behind this. Research on this topic.	Students will be able to connect things with daily activities.
May	08	Contemporary Problems of Indian Society	Students will know about the problems faced by Indian people and will work to solve those problems.	I. Poverty Meaning, genesis and broad measures to alleviate it. Nature of poverty in rural and urban India.. II. Illiteracy Causes and consequences Measures to eradicate illiteracy.	Make group presentations (collage, charts, posters) on the contemporary problems of Indian	Visit a village with your friends and organize a camp where you will provide	Contribute towards solving social problems such as illiteracy. Students may	conduct a small survey on status of literacy/ employment/ income in their locality.	N/A	What problems you have faced while organizing camp in the village ? How you made	Students will work in a team and play a role of leader to remove this social illness from the society.

				III. Unemployment Nature and extent of unemployment. Measures to reduce unemployment - Vocational education, skill-based education. IV. Current Affairs.	society by using only newspaper clippings as a resource.	basic knowledge of writing and reading to the villagers.	volunteer to teach one illiterate person in their locality.			villagers to attend your camp?	
June	14	Cultural Heritage of India	Students will know about the historical and cultural backgrounds of India.	I. The historical framework of India's heritage and culture. II. Evolution of Indian culture Historical background- from the Indus Valley civilization to the British period and Indian renaissance. Shaping of Indian ethos and syncretism. III. The cultural heritage of India. Architecture, paintings, dance, music etc. IV. Current Affairs.	Practice meditation, 'pranayam' and 'yoga' for health benefits and better understanding of Indian culture.	Practice and Write about different types of "Asnaas" Also mention what difference you have felt after doing those asnaas.	Effectively use paintings, short films and other material developed by the Centre for Cultural Resources and Training (CCRT) to appreciate the arts, crafts and architecture of India	Develop resource files on Bhakti and Sufi saints of India. Write down any one work of any saints.	N/A	1.How do people in ancient times use to buy or sell any thing? Describe it with reference to Indus valley civilization 2. Write down name of any five sites of Indus valley civilization. Also write the names of its founder..	Students will foster a deep appreciation for its rich and diverse traditions, promotes a sense of national identity and cultural preservation and sustainability.
July	26	India's Freedom Struggle	Students will know about India and its struggle for Independence.	I. The first war of independence-1857. (Sepoy mutiny) II. Indian freedom struggle a) the moderates b) the radicals c) the revolutionaries. III. The contribution of leaders IV. Current Affairs	Watch a movie based on India's freedom struggle and submit a review.	Highlight the experience and perspective of Adivasis and Harijans regarding Freedom .	Read about the history of India's freedom struggle and submit an article about events or personalities that impress them.	Present the life history of Indian freedom fighters through a short role play/skit	N/A	Why Revolt of 1857 is considered as first war for Independence in India? What would have happened if India had won that war ?	Students will know that struggle is the part of success. Without struggle one cannot get success. Students will also know about different Freedom fighters of India.
Aug	22	Constitutional Values	Students will know about Indian Constitution.	I. Preamble to the Indian Constitution (understanding the spirit of the Constitution); Justice:	Develop a code of conduct which may	Do India has its national language?	Prepare biographies of the makers of	Read the Preamble to the Constitution of India and	N/A	What is the difference	Students will be able to use their rights and

				Social, economic and political Liberty of thought, expression, belief, faith and worship, Equality of status and of opportunity Fraternity, the dignity of individual and the unity and integrity of the Nation Secularism. II Key features of the Constitution of India, Fundamental Rights, Directive Principles of State Policy and Fundamental Duties, Citizenship Organs of Government Federalism. III Some legal provisions (relevant to children) IV. Current Affairs	relate to one of the Fundamental Duties.	Why? Under which part and how many language are given place in Indian Constitution? Write down the name of Indian State with its official language.	the Constitution .	highlight the values reflected in it. They may then present a play to showcase these values.		between Fundamental Right and DPSP? Explain with reference to article 21A and 45.	also motivate others.
Sep	05	Pollution	Students will know about pollution and its types.	Types of Pollution Water Pollution Air Pollution Noise Pollution Marine Pollution Soil Pollution Current Affairs	Make a PPT based on Marine Pollution.	Which gases pollute the environment? How?	Make a project based on different types of pollution.	What is Renewable Energy? How can we control pollution by using Renewable source of energy?	N/A	Is Acid Rain caused due to Air Pollution ? What do you mean by smog ?	Students will understand the theme and shift towards Non Conventional source of energy .
Oct	13	Jharkhand	Students will know about Jharkhand.	1.Districts of Jharkhand and its formation. 2. Temples of Jharkhand 3. A place for Tourists 4.Rivers of Jharkhand. 5.Minerals found in Jharkhand 6.Current Affairs	Visit different places of Jharkhand and write a journal.	Visit Central Tasar Research and Training Institute in Piska Nagri ,Ranchi. Find out What is Tasar and how it is	Write down the names of different water falls of Jharkhand along with its river.	Why do think Jharkhand full of minerals ?	N/A	How many types of minerals in found in Jharkhand? In which part of Jharkhand these minerals	Students will feel proud on their state.

						prepared ?				are found.	
Nov	22	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISIO N	REVISI ON	REVISION
Dec	23	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISIO N	REVISI ON	REVISION
Jan	16	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISIO N	REVISI ON	REVISION
Feb											
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