

MONTH	UNIT/T OPIC	METHODOLOGY/ACTIVITIES		LEARNING OUTCOME	WORKING DAYS
		Subject Specific (Content Based)	Behavioural(Applicatio n based)		
June	<p>The Portrait of a Lady [H]</p> <p>By <i>Khushwant Singh</i></p> <p>2) A</p> <p>Photograph: by Shirley Toulson</p>	<p>1)The Portrait of a Lady: To enable the students to</p> <p>i)know the expressions used in the lesson and their usage</p> <p>ii) enhance and enrich the vocabulary</p> <p>iii)admire and appreciate the autobiographical piece</p> <p>iv) strengthen the family bonds by accepting the situation</p> <p>v) gain insight into the various phases of author's life with his grandmother</p> <p>vi) admire the divine beauty of the grandmother</p> <p>ACTIVITY: GROUP DISCUSSION ON The Portrait Of A Lady is a reminder about agrowing distancebetween the young and the older generation.</p> <p>Group activity</p> <p>Comprising all range of learners.</p> <p>2) A Photograph: To enable the studentsto</p> <p>i) Comprehend the poem.</p> <p>ii) Identify the figures of speech</p>	<p>1)The Portrait of a Lady: To enable the students to</p> <p>i)be independent in thought and action</p> <p>ii) understand the feelings of parents and grandparents</p> <p>iii)know that distancing due to circumstances never affects relations</p> <p>iv) understand that graph of life never follows a straight line</p> <p>v) show care and concern for animals</p> <p>2)A Photograph: To enable the students to</p> <p>i) Care and share, love and affection, togetherness</p> <p>ii) change is the harsh and bitter reality of life.</p> <p>iii) Analyse that death is the inevitable end of all.</p>	<p>1) The Portrait of a Lady: The students will be able</p> <p>i)to develop an independent attitude in thought and action</p> <p>ii) to accept and manage the situations with patience and tolerance</p> <p>iii)to know the expressions used in the lesson and their usage</p> <p>iv) To know the sacrifices and support given by the grandparents in the family.</p> <p>2) A Photograph: The students will be able to-i) understand the importance of human relationship. ii) Understand the nostalgic experiences of the past. iii) Understand that the moments of life have been permanently etched in the poet's mind with a feeling of eternal loss.</p> <p>iv) Understand that death is imminent and human life is mortal.</p>	15

June		<p>.iii) Appreciate the theme iv) understand that objects like the sun, the river and the oceans are perennial and everlasting, but human life is too short in comparison v) understand child psychology. ACTIVITY: (to introduce the lesson)</p>			
		<p>1. Warm up activity-Recapitulation of Figures of Speech with examples Activity (to support learning) Progress in Photography technology Skills: Comprehension, analytical skill, thinking skill, language skill, photography skills, life skills Activity/Assignment (to check learning) The three stanzas depict three different phases. What are they?</p>			
	<p>The Summerof the BeautifulWhit e Horse[S]</p>	<p>The Summer of the Beautiful White Horse: To enable the students to i) appreciate humour in the story ii) Understand one should stick to society norms, values of our family and love animals iii) Deal with the temperament of different family members to create a bond. iv) Accept situations and face them with a lot of courage to find solutions to the problems in life and make decision in most adverse conditions.</p>	<p>The Summer of the Beautiful White Horse: To enable the students to i) inculcate the values like honesty, faith, trust ii) Share responsibility with the members of the family. iii) Show care and concern for animals. iv) Respect the values and traditions of the family.</p>	<p>The Summer of the Beautiful White Horse: The students will be able to i) enjoy humorous piece ii) inculcate values like honesty, trust, responsibility etc iii) Deal with the temperament of different family members to create a bond. iv) be generous towards animals</p>	

<p align="center">June</p>	<p>(GRAMMAR): Determiners.</p>	<p>to establish a clear understanding of determiners</p> <p>-to enable the learners to identify the types of determiners and use them in sentences.</p>	<p>- the session would be started with an Audio-visual song of determiners. Quiz on determiners would be conducted. The learners would be asked to arrive at the rules.</p> <p>(Inductive method)</p> <p>The purpose and functions of the different types of determiners would be discussed with examples.</p>	<p>The learners would be able to identify determiners and use them appropriately.</p> <p>The comprehending skills would be improved.</p> <p>Sentence construction skills would be strengthened</p>	
	<p>WRITING SKILLS</p> <p>Notice</p> <p>Writing</p>	<p>Notice Writing: Knowledge of the purpose and importance of writing a Notice.</p> <p>i) Guide and motivate students to express and write effectively.</p> <p>ii) Develop knowledge and purpose of writing a Notice.</p> <p>iii) Awareness of the form, content and process of writing. iv) Able to retain a data and information.</p> <p>v) Organize ideas on a particular subject. vi) Practice to enhance the skills. vii) Create social awareness.</p> <p>Activity: (to support learning) i) Sample be read out in the class and shown on the screen.</p>	<p>Notice Writing: -Guide and motivate the students to express and write effectively. The students will be able to- Guide and motivate the students to express and write effectively.</p> <p>i) to share ideas, freedom to express and acceptance of ideas. ii) Make use of appropriate formats, expressions and vocabulary. iii) Appreciate the skill of expressing and writing effectively.</p> <p>iv) Issues relating to the environment and the society.</p> <p>v) Develop writing, reading skill and</p>	<p>Notice Writing -The students to express and write effectively. - Awareness of the form, content and process of writing. -</p> <p>Knowledge of the purpose and importance of writing a Notice. i) Guide the students to write effectively.</p> <p>ii) To write in formal tone, to be precise and to the point. iii) To write with appropriate vocabulary and expressions. iv) The students will be able to express their ideas by writing the skill.</p>	

	<p>ii) Use of projectors to show different model exercises based on the skills. Skills: reading skill, thinking skill and writing skill.</p> <p>Practice exercises based on the skill. Digital Content to be used: Presentations based on skills (PPT/Word file)</p>	thinking skill.		
WRITING	<p>Advertisement: I. Specific Objectives: i) Guide and motivate students to express and write effectively.</p>	Advertisement: The students will be able to	Advertisement: The students will be able to write advertisements with appropriate vocabulary and expressions.	
SKILLS	<p>ii) Develop knowledge and purpose of writing Advertisements.</p>	<p>i) Inculcate values like share ideas, freedom to express and acceptance of ideas.</p>	Advertisement: The students will be able to write advertisements with appropriate vocabulary and expressions.	
Advertisemen t	<p>iii) Awareness of the form, content and process of writing.</p>	<p>ii) Make use of appropriate formats, expressions and vocabulary. iii) Write formal letters, articles, speech, debate, reports and other short writing skills. iv) Appreciate the skill of expressing and writing effectively.</p>		
(commercial)	<p>iv) Able to retain a data and information. v) Organize ideas on a particular subject. vi) Practice to enhance the skill. vii) Create social awareness.</p>	<p>v) Relate with business, issues relating to the environment and the society.</p>		
	<p>A first person account of an adventurous ordeal that a family experiences. This is a story of extreme courage and skill exhibited by a family of</p>	<p>We're not afraid to die: To enable the students</p> <p>i)to know the expressions and phrasal verbs used in the lesson and their usage</p> <p>ii) to enhance and enrich the vocabulary</p> <p>iii) to know homonyms for 'storm' and 'vessel'</p>	<p>We're not afraid to die: The students will be able to</p> <p>i) learn the parts of ship and different terms/words related to voyage</p> <p>ii) understand the expressions and phrasal verbs used in the lesson and their usage</p> <p>iii) realise that hazardous</p>	

<p align="center">July</p>	<p>We'reNotAfraid to Die[H]</p>	<p>EXHIBITED by a family of four comprising of the narrator, his wife Mary and two children Suzanne and Jonathan. Along with the adults, the two children too are worth mentioning as they showed exemplary courage and understanding even in the face of death.</p>	<p>iv) to comprehend the text and enjoy the adventurous expedition v) realise that hazardous experience teach us to face the adverse circumstances with courage vi) understand the parts of ship and different terms/words related to voyage</p>	<p>experience teaches one to face the adverse circumstances with courage iv) understand that presence of mind along with the practical knowledge is important to take instant decisions v) know that determination and self-confidence can conquer adverse circumstances vi) inculcate values of sharing, caring and responsible attitude towards others</p>	<p align="center">19</p>
	<p>NOTE MAKING</p>	<p>Note Making: Guide and motivate students to express and write effectively. -Develop knowledge and purpose of writing notes. -Awareness of the form, content and process of writing. - Able to</p>	<p>Note Making: The students will be able to recollect, organize and analyse data to be used to write notes.</p>	<p>Note Making: -Express effectively, sharing ideas and develop appropriate style of writing. They would be able to use</p>	
		<p>retain a data and information. -Organize ideas on a particular subject. -Practice to enhance the skills and note making.</p> <p>ACTIVITY</p> <p>Note Making: Pre-activity: Projector will be used to show as to how to write notes, a sample note along with discussion and explanation. Post activity: Worksheet based on Note making.</p>		<p>the note taking suggestions</p> <p>to develop good notes based on classroom discussions</p>	
	<p>The</p>	<p>The Laburnum Top: To enable the students to i)understand, enjoy and appreciate different genre of English writings ii)Enhance vocabulary</p>	<p>The Laburnum Top: To enable the students to</p>	<p>The Laburnum Top: The students will be able to</p>	

<p>Laburnum</p> <p>Top</p> <p>ACTIVITY</p> <p>The Laburnum Top: i) Assignments ii) Comprehension questions: -Why has the poem been called "The Laburnum Top -„It is the engine of her family, she strokes it full . Explain the significance of these lines. -What do you notice about the beginning and the ending of the poem?</p>	<p>iii)Have better understanding of rhyme scheme and other poetic devices iv)Know about the poet and his contributions v)Understand hardships of life vi)Celebrate energy and life of nature</p> <p>iii) Facing hardships of life.</p>	<p>i) inculcate the value of admiring nature</p> <p>ii) Seeking pleasure from nature and its bounty.</p> <p>iii) Facing hardships of life.</p>	<p>i) Think, analyse and observe ii) Know how to identify rhyme scheme</p> <p>iii) enjoy beauty of nature</p> <p>iv) understand what are the hardships of life and how we can overcome them</p>	
<p>July</p> <p>The Address</p> <p>[Sn]</p>	<p>The Address The chapter is apoloignant account of a daughter who goes in search of her family's belongings after the Second World War. It is about when she finds them, the objects evoke memories of her earlier life. The chapter highlights on how she decides to leave all the belongings behind and resolves to move on.</p> <p>ACTIVITY</p> <p>The Address: Activities:</p>	<p>The Address: To enable the</p> <p>students to- i) read effectively with proper voice modulation. ii)</p> <p>comprehend the</p>	<p>The Address: To enable the students - i) to inculcate values like courage, empathy, sensitivity, critical thinking and maintaining relations.</p> <p>ii) To learn from past experiences. iii) To understand to forget the past and move ahead in life.</p> <p>iv) To appreciate family members and family bonding. v) To value all that they are blessed with.</p>	<p align="center">21</p>

		<p>i) Pre-activity: *Sharing experience about the significance of articles/memories/people.</p> <p>ii) Introduction of characters</p> <p>iii) Theme and message</p>	<p>Chapter.</p> <p>iii) Enhance their vocabulary. iv) Analyse the situations and characters.</p> <p>v) Express themselves effectively in the written form.</p> <p>vi) Communicate their ideas with a lot of conviction.</p>	<p>vi) Realize the value of time and not to be upset with old memories.</p> <p>vii) Develop the comprehension skill, analytical skill, language skill and thinking skill.</p>	
August	LETTER WRITING:	Letter Writing: - Focus on the form, content and process of writing. Practice	Letter Writing: Guide students to write and express on their own The	Letter Writing: Guide the students to write effectively. - Develop and	22
	<p>Enquiry/Reply</p> <p>Order/Complaint</p> <p>/Reminder/Cancellation.</p> <p>Replies to the Letters.</p>	<p>and extra exercise to enhance the skill. And</p> <p>i) Guide and motivate students to express and write effectively.</p> <p>ii) Develop knowledge and purpose of writing a letter.</p> <p>iii) Awareness of the form, content and process of writing.</p> <p>iv) Able to retain a data and information.</p> <p>v) Organize ideas on a particular subject.</p> <p>vi) Practice to enhance the skill. vii) Create social awareness.</p> <p>ACTIVITY</p> <p>*Revision of the formats of formal and informal letters</p> <p>*Purpose and significance of writing.</p> <p>Activity: (to support learning)</p>	<p>students will be able to</p> <p>i) Inculcate values like share ideas, freedom to express and acceptance of ideas.</p> <p>ii) Make use of appropriate formats, expressions and vocabulary.</p> <p>iii) write formal letters</p> <p>iv) Appreciate the skill of expressing and writing effectively.</p>	<p>strengthen -To write in formal tone, to be precise and to the point. -Focus on the qualifications and experiences.</p>	

	<p>i) Sample formal letters will be read out in the class and shown on the screen. ii) Use of projectors to show different model exercises based on the skills. Skills: reading skill, thinking skill and writing skill.</p>		
<p>Discovering Tut</p> <p>[H]</p>	<p>Discovering Tut: To enable the students to</p> <p>i) Understand the meaning and usage of phrases like resurrection, circumvented, computed Tomography, scudded across etc. ii) understand advancement in technology</p> <p>iii) know about Egyptian belief of mummification iv) have the historical knowledge about King Tut s family line v) know about pyramids and their history vi) know how archaeology has changed in the intervening decades,</p> <p>ACTIVITY</p>	<p>Discovering Tut: To enable the students to</p> <p>i) inculcate the values of concern, responsibility, curiosity and respect</p> <p>ii) Respect other's beliefs, customs, rituals</p> <p>iii) Feel pride in using technology to unfold the mysteries iv) Develop inquisitiveness towards historical events and people</p>	<p>Discovering Tut: The students will be able to</p> <p>i) Think, analyse and observe ii) Know the meanings of new phrases</p> <p>iii) Satisfy their curiosity about King Tut s mummy</p> <p>iv) Know about the archaeology and advancement in technologies v) Understand the wastefulness of war</p>

		<p>Discovering Tut: Activity :(to introduce the lesson) Power point presentation on Egypt and pyramids Activity :(to support learning) Power point presentation on King Tut s Mummy, his valuable treasure The chapter will be explained through slides, giving explanation and asking questions. Skills: Enhance reading, comprehending thinking skills, analytical skills, Literary skills and Observation skills.</p>			
AUGUST	Landscape of	Landscape of the Soul: To enable the	Landscape of the Soul: To enable	Landscape of the Soul: The	22
	the Soul	<p>students to i) understand that art is one of the forms of expression like poetry, music and dance. ii) understand the concept of shansui iii) know about Chinese art and European art iv) Gain insight into the life of Nekchand and his art. v) Know about Chinese painter Wu Daozi and his art work. vi) Understand the phrases used in the text. ACTIVITY Activity (to introduce the lesson) 1.Warm up activity- i) Discussion of meditation, pranayama</p>	<p>the students to i) develop the aesthetic sense ii) understand the advantages of meditation, pranayama etc iii) enhance the creative skills iv) know the importance of void v) respect the artist and his art</p>	<p>students will be able to i) understand that art is one of the forms of expression like poetry, music and dance. ii) understand the concept of shansui iii) know about Chinese art and European art iv) Gain insight into the life of Nekchand and his art.</p>	

		<p>2. Brief up about the life and art work of Nekchand and other artists</p> <p>3. Share any other art work or artist or art school you know.</p> <p>Activity (to support learning)</p> <p>i) A video based on Nekchand's art work at Chandigarh will be shown. Students will be asked questions on that.</p>			
September	<p>Ranga's Marriage [Sn]</p>	<p>Ranga's Marriage: To enable the students to</p> <p>i) Comprehend the chapter and the message conveyed.</p> <p>ii) understand the astrological perceptions in context with the scientific temperament</p> <p>iii) Know the shift in marriages in Indian society.</p> <p>iv) Appreciate the humour used by the author.</p> <p>v) Know the phrases used in the lesson .</p> <p>ACTIVITY</p> <p>Activities:</p> <p>1. Warm up activity</p>	<p>Ranga's Marriage: To enable the students to i) understand the life of a typical Kannad village which undergoes a rapid change due to increasing influence of English, Western Culture and Urbanization.</p> <p>ii) Understand that tradition is deep rooted in our culture. iii) Understand that education makes one civilized and responsible. iv) respect the elders in the family</p>	<p>Ranga's Marriage: The students will be able to</p> <p>i) Understand the influence of the English language and Western culture in villages.</p> <p>ii) Understand the conflict between tradition and modernity and shows how tradition is deep rooted in our culture.</p> <p>iii) Understand that education makes one civilized and responsible.</p> <p>iv) Understand the astrological perceptions in context with the scientific temperament</p> <p>v) Know the shift in marriages in Indian society.</p> <p>vi) Appreciate the humour used by the author. vii) know the phrases used in the lesson</p>	15

		<p>i) English is a global language. Comment 2.Views on Astrology and scientific attitude towards a problem Activity (to support learning) i) Indian Society has moved a long way from the past system of marriages. Skills: Analytical, Imaginative, observatory ,</p>			
	GRAMMAR: Sentence Reordering	Students will be able to learn the importance of re ordering the sentences.		Students will understand the importance of framing the sentences and the correct usage	
		They will brush up their knowledge of having the words in form of brain		of it. Storming session of having the words in different manners.	
SEPTEMBER	REVISION AND EXAM	REVISION AND EXAM	REVISION AND EXAM	REVISION AND EXAM	
	POETRY: The Voice of the Rain [H]	<p>To recognize the purpose of economy of words and the nuances of the lines that highlights the cyclic nature of rain and appreciates the diligence and divine quality of the speaker.</p> <p>ACTIVITY</p> <p>Recitation and self Study</p> <p>[group work of 3 on poetry writing on the wind, sun, moon or snow-highlighting the pride in their narration</p>	<p>The students would be able to grasp the theme and meaning of the poem.</p> <p>They would be able to read the poem with proper tone and rhyme and develop an interest in poetry. Their vocabulary would be strengthened. They would be able to draw a comparative study between human life and nature.</p>	<p>The Voice of the Rain: The students will be able to</p> <p>i) inculcate values like care and concern to save environment ii) develop imaginative and analytical skills</p> <p>iii) realise the importance of saving natural resources</p> <p>iv) understand the process of sustainable development .</p>	

<p align="center">OCTOBER</p>	<p>Albert Einstein at School [Sn]</p>	<p>Albert Einstein: To enable the students - i) to comprehend the text, to learn/enrich vocabulary and its usage</p> <p>ii)to know Einstein’s theory of education iii) to understand the circumstances which lead to his expulsion from school iv) to gain insight into the attitude of teachers towards Einstein</p> <p>v)understand the difference between information gathering and insight formation</p> <p>ACTIVITY</p> <p>Albert Einstein: Activity: (to introduce the lesson)</p> <p>i) Scientists and their inventions ii) Incidents from the life of the great scientist Activity: (to support learning) i) Express your views on prevailing system of education.</p> <p>ii) Do you think that the teacher’s role should be primarily to make students think?</p>	<p>Albert Einstein: To enable the students to- i</p> <p>) have respect for teachers</p> <p>ii) be truthful and patient</p> <p>iii) accept and respect differences iv) understand the struggles and conflicts faced by Einstein</p> <p>v) know that ideas matter rather than the</p>	<p>Albert Einstein: The students will be able to –</p> <p>i) understand the difference between information gathering and insight formation</p> <p>ii) understand the struggles and conflicts faced by Einstein</p> <p>iii) know Einstein’s theory of education</p> <p>iv) know that ideas matter rather than the facts</p> <p>v) have an honest approach towards solving the problem</p>	<p align="center">19</p>
	<p>The Ailing Planet TheGreenMovement’s Role [H]</p>	<p>The Ailing Planet: To enable the students to- i) comprehend the chapter and communicate their ideas.</p> <p>ii)appreciate the theme and the message conveyed</p> <p>iii) Notice the vocabulary and</p>	<p>The Ailing Planet: To enable the students to</p> <p>i) understand the ecological situation of the Earth and the Earth’s Principal Biological Systems.</p>	<p>The Ailing Planet: The students will be able to understand</p> <p>i) Issues of the decline state of Mother Earth and sustainable development.</p> <p>ii) share and care andnot to</p>	

		<p>expressions.</p> <p>iv) Know the resources required for the future generations.</p> <p>v) Understand the concept of Sustainable Development.</p> <p>ACTIVITY Activity (to support learning)</p> <p>i) Discussion on „Laws are never respected nor enforced in India.</p> <p>Explain-„We have not inherited this earth from our forefathers but burrowed it from our children.</p> <p>ii) The most dangerous animal is man. How?</p> <p>iii) What role can industry play in safeguarding environment</p>	<p>ii) Understand the issues regarding the declining health of the Earth iii) To save the resources by using them judiciously.</p> <p>iv) Check the harmful activities done by humans on the planet. v) make the best use of the resources and able to retain them for the future generation</p>	<p>dominate</p> <p>iii) the concept of sustainable development iv) the four principal biological systems of earth</p> <p>v) The holistic approach for the planet to realize the responsibility. vi) The current population statistics of the country.</p>	
		<p>Mother’s Day: To enable the students to</p> <p>i) perceive the overall meaning and organisation of the text</p> <p>ii) identify and understand the central/main point and supporting details along with the phrases used in the lesson</p>	<p>Mother’s Day: To enable the students to</p> <p>i) imbibe values like care and concern, empathy, compassion, respect for elders, belongingness and tolerance</p> <p>ii) understand the struggles and sacrifices of parents and to draw inspiration from them ii) strengthen the family bonding with sharing and solving problems</p>	<p>The students will be able to i) Know that mothers have equal rights to enjoy their lives and deserve acknowledgement and appreciation.</p> <p>ii) Strengthen the family bonding with sharing and solving problems.</p>	

<p align="center">NOVEMBER</p>	<p align="center">Mother's Day [Sn]</p>	<p>iii) promote advanced language skills with an aim to develop the skills of reasoning and drawing inferences iv) recognize one of the most important educators in a child's life</p> <p>v) understand that our mothers have equal rights to enjoy their lives and deserve acknowledgement and appreciation</p> <p>ACTIVITY Activity: (to support learning) i) Is drama a good medium for conveying a social message? Discuss</p> <p>ii) Mother works from morning till night catering to the needs of everyone. Do we ever realise that she too is a human being and needs rest? Share your views about the role of mother in your life.</p>	<p>iii) accept the members of the family without complaining iv) realise the worth of sacrifice and struggles of parents for the children</p>	<p>iii) Develop analytical skills, thinking skills, decision making, management skills, and logical skills.</p> <p>iv) identify and understand the</p>	<p align="center">19</p>
<p align="center">November</p>	<p align="center">Poster Making</p>	<p>Poster : I. Specific Objectives:</p> <p>i) Guide and motivate students to express and write effectively.</p> <p>ii) Develop knowledge and purpose to design aPoster.</p> <p>iii) Awareness of the form, content and process of writing.</p>	<p>Poster: The students will be able to i) inculcate values like share ideas, freedom to express and acceptance of ideas.</p> <p>ii) Make use of appropriate formats, expressions and vocabulary. iii) Appreciate the skill of expressing</p>	<p>Poster:</p> <p>i) Guide the students to write effectively.</p> <p>ii) To be precise and to the point. iii) To write with appropriate vocabulary and expressions. iv) The students will be able to</p>	<p align="center">16</p>
		<p>iv) Able to retain a data and information. v) Organize ideas on a particular subject. vi) Practice to enhance the skills.</p>	<p>and writing effectively.</p>		

	<p>vii) Create social awareness.</p> <p>viii) Design the poster with appropriate expressions and vocabulary.</p> <p>ix) link ideas</p> <p>x) Use proverbs/ phrasal words and idiomatic expressions while writing the skill.</p> <p>xi) Encourage the students to develop their reading habit (newspapers, articles, journals etc.</p> <p>xii) Retain information of events, incidents or accidents and describe the same and adhere to the word limit.</p> <p>ACTIVITY</p> <p>Poster: Pre-activities: *Purpose and significance of the skill Activity: (to support learning)</p> <p>i) Sample Posters will be formal shown on the screen.</p> <p>ii) Use of projectors to show different model exercises based on the skills. Skills: reading skill, thinking skill and writing skill.</p>	<p>iv) Writing, reading skill and thinking skill.</p>	<p>express their ideas by designing a poster.</p>	
<p>INVITATION</p> <p>WRITING/</p>	<p>To enable the learners to express their ideas cohesively without any difficulty. -to enable them to comprehend different written texts for personal/public</p> <p>Information, their formats and purpose.</p>	<p>Developing the format in sequence or is course/spoken</p> <p>With reference to the educational, personal domains. The teacher would discuss with examples all kinds of invitations and the method of framing replies.</p>	<p>The learners would be able to express their ideas</p>	

	REPLIES			cohesively, completely, fluently and spontaneously with expressions, grammar usage and relevant vocabulary for a hospitable Announcement of an event.	
Decem ber	The Browning Version [H]	<p>The Browning Version: To enable the students to</p> <p>i) take role play and learn to deliver their part with appropriate voice modulation, stress and intonation ii) understand, enjoy and appreciate plays iii) enhance vocabulary iv) know about poet and his contributions v) know how to display attitude towards students and colleagues</p> <p>Childhood: To enable the students to i) understand, enjoy and appreciate different genre of English</p>	<p>To enable he students to</p> <p>i) acquire proper mannerism and attitude ii) owe respect towards their teachers iii) not indulge in destructive criticism To inculcate the values of i) respecting teachers ii) respecting mankind iii) sense of duty iv) punctuality v) appreciation.</p>	<p>The students will be able to</p> <p>i) enhance vocabulary ii) know how to take role play iii) learn how to display mannerism and attitude towards others iv) to be punctual v) develop a sense of duty vi) not to indulge in criticism</p>	19
	Childhood [H]	<p>writings ii) Enhance vocabulary iii) Have better understanding of rhyme scheme and other poetic devices iv) Know about the poet and his contributions v) Childhood is a bliss vi) Think when and where has the childhood gone</p> <p>ACTIVITY</p>	<p>To enable the students to</p> <p>i) inculcate the values of accepting differences, understanding people, becoming sensible, valuing childhood and freedom ii) develop individuality iii) search for and gain innocence like a child</p>	<p>Childhood:: The students will be able to</p> <p>i) Think, analyse and observe ii) Know how to identify rhyme iii) Gain individuality iv) Differentiate between innocence and maturity</p>	

		Activity: (to introduce the lesson) Warm up activity i) Share your childhood experience (How you were innocent) ii) How can you define “maturity? Can we exactly say at what age you became mature?		v) Respect different people vi) Appreciate poem vii) Learn where and when has his childhood gone	
January	Silk Road	The students will be able to- i) comprehend the chapter and enhance their vocabulary. ii) Know the physical and mental stress occurred while travelling. iii) Understand the difficulties faced while travelling in different situations and places. iv) Understand that silk was the main commodity that was traded in those areas. v) Know the purpose of the author’s journey to Mount Kailash. ACTIVITY Activity: (to introduce the lesson) Discussion on „Adventure in life and „Importance of Travelling	The students will be able to i) Understand as to how to face and deal challenging situations and come up with an appropriate solution for the same. ii) Understand that the narrator’s bitter experience of her came as a stark contrast to accounts he had read of earlier travellers. iii) Analyse the trip to be adventurous iv) praise and appreciate the dull but small town. v) Realise that people could work as a team to be successful. vi) Understand that the author thought that his positive thinking strategy will work. model	They would be able to enhance their comprehension skills. They would develop their Optimistic attitude towards life amidst many struggles. They would be able to make connections between similar situations in different storylines/life experiences.	18
		To enable the students to	To enable the students to	The students will be able to i) Understand the sense of duty. ii) Appreciate and accept the selfless service to mankind.	

	Birth [Sn]	<p>i) Comprehend the chapter and enhance their vocabulary</p> <p>ii) Analyse the situations and characters of the chapter.</p> <p>iii) The duty of a Doctor Noble profession.</p>	<p>i) Inculcate values like respect, being responsible, work for excellence, time management, commitment and determination, care and concern, humility, optimism, helping and tolerance.</p>	<p>iii) Realise and create a balance between the knowledge gained and practical approach.</p>	
		<p>iv) The efforts to restore hope, life and determination.</p> <p>v) the selfless service to mankind vi) Realise the process of growth and development.</p> <p>vii) Gain knowledge and practical approach.</p> <p>ACTIVITY</p> <p>Activity: (To support learning) i) Noble profession of doctors and service to mankind. ii) There lies a great difference between textbook medicine and the world of a practicing physician. Skills: comprehension skill, analytical skill, sensitivity, awareness, presence of mind, time management, language skills and thinking skill.</p>	<p>ii) never to lose hope</p> <p>iii) use of practical knowledge iv) duty of a doctor</p> <p>v) responsible and optimistic</p>	<p>iv) Interpret that the story hinges on the theme- never say die attitude and the precious gift of life which only God can grant and a doctor can retrieve and restore.</p>	
		<p>Assessment of Speaking and Listening</p>			
		<p>Revision: -Grammar - Writing Skills Annual Exam Course Recap and revision of the Annual course including Grammar, Writing Skills and Literature.</p>	<p>Revision: -Grammar - Writing Skills - Annual Exam Course Worksheet based on unseen passage and note making and general grammar exercises for revision.</p>		
	REVISION FOR TERM II	REVISION FOR TERM II	REVISION FOR TERM II	REVISION FOR TERM II	

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APPLIED MATHEMATICS

CLASS - XI

MONTH	TOPIC	METHODOLOGY/ ACTIVITIES	LEARNING OUTCOME	Working days
<p align="center">JUNE</p>	<p>UNIT – 1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS</p>			
	<p>Prime Numbers, Encryptions using Prime Numbers</p>	<ul style="list-style-type: none"> ● Introduction to encryption /decryption using prime numbers by RSA algorithm 	<p>The students will be able to</p> <ul style="list-style-type: none"> ● Identify prime numbers ● Encrypt or Decrypt the message using prime numbers 	
	<p>Binary Numbers</p>	<ul style="list-style-type: none"> ● Conversion from decimal to binary system and vice - versa 	<ul style="list-style-type: none"> ● Express decimal numbers in binary system ● Express binary numbers in decimal system 	
	<p>Complex Numbers (Preliminary Idea Only)</p>	<ul style="list-style-type: none"> ● Basic operations (addition, subtraction, multiplication and division) on two or more complex numbers ● Properties of Conjugate and Modulus of complex numbers 	<ul style="list-style-type: none"> ● Perform basic operations on the complex numbers ● Find additive inverse and multiplicative inverse of a complex number ● Find conjugate and modulus of complex numbers 	
	<p>Indices, Logarithm and Antilogarithm</p> <p>Laws and properties of logarithms</p>	<ul style="list-style-type: none"> ● Applications of rules of indices ● Introduction of logarithm and antilogarithm 	<ul style="list-style-type: none"> ● Relate indices and logarithm /antilogarithm ● Find logarithm and antilogarithms of given number 	<p>14</p>

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APPLIED MATHEMATICS

CLASS - XI

JULY	Simple applications of logarithm and antilogarithm	<ul style="list-style-type: none"> ● Application of Fundamental laws of logarithm 	<ul style="list-style-type: none"> ● Enlist the laws and properties of logarithms ● Apply laws of logarithm 	24
	Numerical Applications	<ul style="list-style-type: none"> ● To express the problem in the form of an equation and apply logarithm/ antilogarithm 	<ul style="list-style-type: none"> ● Use logarithm in different applications 	
	Averages	<ul style="list-style-type: none"> ● Problems on average, weighted average 	<p>Students will be able to</p> <ul style="list-style-type: none"> ● Determine average for a given data 	
	Clock	<ul style="list-style-type: none"> ● Number of rotations of minute hand / hour hand of a clock in a day ● Number of times minute hand and hour hand coincides in a day 	<ul style="list-style-type: none"> ● Evaluate the angular value of a minute ● Calculate the angle formed between two hands of clock at given time ● Calculate the time for which hands of clock meet 	
	Calendar	<ul style="list-style-type: none"> ● Odd days in a year/ century. ● Day corresponding to a given date 	<ul style="list-style-type: none"> ● Determine Odd days in a month/ year/ century ● Decode the day for the given date 	
	Time, Work and Distance	<ul style="list-style-type: none"> ● Real life problems on time taken / distance covered / work done 	<ul style="list-style-type: none"> ● Establish the relationship between work and time ● Compare the work done by the individual / group w.r.t. time ● Calculate the time taken/ distance covered/ Work done from the given data 	
	Mensuration			
Seating arrangement				

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APPLIED MATHEMATICS

CLASS - XI

		<ul style="list-style-type: none"> • Comparison between 2D and 3D shapes • Combination of solids • Transforming one solid shape to another • Linear and circular seating arrangement • Position of a person in a seating arrangement & Contextualized real life problems 	<ul style="list-style-type: none"> • Solve problems based on surface area and volume of 2D and 3D shapes • Calculate the volume/ surface area for solid formed using two or more shapes • Create suitable seating plan/ draft as per given conditions (Linear/circular) • Locate the position of a person in a seating arrangement 	
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	<p>UNIT – 8 COORDINATE GEOMETRY</p> <p>Straight line</p> <p>Circle</p> <p>Parabola</p>	<ul style="list-style-type: none"> • Application of the straight line in demand curve related to economics problems • Equation of a circle in standard form, central form, diameter form and general form • Application in parabolic reflector, beam supported by wires at the end of the support, girder of a railway bridge, etc 	<p>The students will be able to</p> <ul style="list-style-type: none"> • Find the slope and equation of line in various form • Find angle & distance between the two lines • Find the perpendicular from a given point on a line • Find different form of equations of a circle • Solve problems based on applications of circle • Define parabola and • Derive the equation of parabola 	
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APPLIED MATHEMATICS

CLASS - XI

AUGUST	<p>UNIT – 3 MATHEMATICAL REASONING</p> <p>Mathematical Reasoning</p>	<ul style="list-style-type: none"> ● Meaning of mathematical statements ● Negation ● Compound statements ● Quantifiers ● Converse and Contrapositive of the statement ● Implications ● Validating statements 	<p>The students will be able to</p> <ul style="list-style-type: none"> ● Identify mathematically acceptable statements ● Express the implications of the compound statement ● Validate mathematical Statements 	24
	<p>Logical Reasoning</p>	<ul style="list-style-type: none"> ● Odd man out ● Syllogism ● Blood relations ● Coding Decoding 	<ul style="list-style-type: none"> ● Solve logical problems involving odd man out, syllogism, blood relation and coding decoding 	
	<p>UNIT – 2 ALGEBRA</p> <p>SETS</p> <p>Introduction to sets – definition</p>	<ul style="list-style-type: none"> ● Examples and Non-examples of Set 	<ul style="list-style-type: none"> ● Define set as well-defined collection of objects 	
	<p>Representation of sets, Types of sets and their notations, Subsets, intervals Venn diagrams Operations on sets</p> <p>Relations</p>	<ul style="list-style-type: none"> ● To find the number of subsets of a given sets and verify that if a set has n number of elements, then the total no of subsets is 2^n. 	<ul style="list-style-type: none"> ● Solve problems using Venn diagram ● Perform operations on sets to solve practical problems 	

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APPLIED MATHEMATICS

CLASS - XI

<p>Ordered pairs Cartesian product of two sets</p> <p>Relations</p> <p>Types of relations</p>		<ul style="list-style-type: none"> • Ordered pair, order of elements in an ordered pair and equality of ordered pairs • Cartesian product of two nonempty set • Examples pertaining to relations in the real number system • Examples and non-examples of functions 	<ul style="list-style-type: none"> • Express relation as a subset of Cartesian product • Find domain and range of a relation • Define and illustrate different types of relations: Empty relation and universal relation • Examine whether the relation is equivalence or not 	
<p>Sequences and Series</p> <p>Arithmetic Progression</p> <p>Geometric Progression</p> <p>Applications of AP and GP</p>		<ul style="list-style-type: none"> • General term of AP • Sum of n terms of AP • General term of GP • Sum of n terms of a GP & Sum of infinite term of GP Applications based on <ul style="list-style-type: none"> • Economy Stimulation • The Virus spread etc 	<ul style="list-style-type: none"> • Identify Arithmetic Progression (AP) • Establish the formulae of finding n th term and sum of n terms • Solve application problems based on AP • Find arithmetic mean (AM) of two positive • Solve problems based on applications of GP • Find geometric mean (GM) of two positive numbers • Solve problems based on relation between AM and GM • Apply appropriate formulas of AP and GP to solve application problems 	

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APPLIED MATHEMATICS

CLASS - XI

SEPTEMBER	Permutations and Combinations			06
	Factorial	<ul style="list-style-type: none"> ● Usage of factorial in counting Principles 	<ul style="list-style-type: none"> ● Calculate factorial of a Number 	
	Fundamental Principle of Counting	<ul style="list-style-type: none"> ● Fundamental Principle of Addition ● Fundamental Principle of Multiplication 	<ul style="list-style-type: none"> ● Appreciate how to count without counting 	
	Permutations	<ul style="list-style-type: none"> ● Permutation as arrangement of objects in a definite order taken some or all at a time ● Theorems under different conditions resulting in $nPr = n!(n-r)$ 	<ul style="list-style-type: none"> ● Define permutation ● Apply the concept of permutation to solve simple problems 	
	Circular permutation	<ul style="list-style-type: none"> ● Number of arrangements as $(n-1)! \cdot 2$, when clockwise and anticlockwise arrangement of objects are indistinguishable 	<ul style="list-style-type: none"> ● Define circular permutation ● Solve problems based on circular permutation 	
	Permutations with restrictions	<ul style="list-style-type: none"> ● Permutations in which some objects come together or come at designated places. ● Permutations in which some objects are always included or excluded 	<ul style="list-style-type: none"> ● Solving problems based on permutations with restrictions 	
Combinations & Combination with repetition	<ul style="list-style-type: none"> ● Combination of n distinct objects taken r at a time if repetition is allowed 	<ul style="list-style-type: none"> ● Define combination ● Differentiate between permutation and combination ● Apply the formula of combination to solve the related problems 		

REVISION FOR MID- TERM & MID -TERM EXAM

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APPLIED MATHEMATICS

CLASS - XI

<p>OCTOBER</p>	<p>UNIT – 5 PROBABILITY</p> <p>Introduction</p> <p>Random experiment and sample space Event</p> <p>Conditional Probability</p> <p>Total Probability & Bayes’ Theorem</p>	<ul style="list-style-type: none"> ● Use of probability in determining the insurance premium, weather forecasts etc. ● To write the sample space when a coin is tossed once, two times, three times, four times ●Contextualized real life problems 	<ul style="list-style-type: none"> ● Appreciate the use of probability in daily life situations ● Recognize and differentiate different types of events and find their probabilities ● Apply reasoning skills to solve problems based on conditional probability ● Solve problems based on application of total probability & Bayes’ Theorem 	<p align="center">15</p>
		<p>ART INTEGRAED LEARNING ACTIVITY : STUDY OF REAL LIFE PROBLEM BASED ON BAYES! THEOREM AS A CONCEPT USING ART.</p>		
	<p>UNIT – 4 CALCULUS</p>	<ul style="list-style-type: none"> ●To distinguish between a relation 		

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APPLIED MATHEMATICS

CLASS - XI

NOVEMBER	<p>Functions, Domain and Range of a function</p> <p>Types of functions Graphical Representation of function Concepts of limits and continuity of a function</p> <p>Instantaneous rate of change, Differentiation as a process of finding derivative, Derivatives of algebraic functions using Chain Rule</p> <p>Tangent line and Equation of tangent</p>	<p>and a function. Video Link: https://www.youtube.com/watch</p> <ul style="list-style-type: none"> ● Graph of some polynomial functions, Logarithm function, Exponential Function, Modulus function, Greatest integer function, Signum function ● To solve the equation of the tangent to the curve at the given point 	<ul style="list-style-type: none"> ● Identify dependent and independent variables Define domain, range and co-domain of a given function ● Define various types of functions ● Solve problems based on the algebra of limits ● Find the derivative of the functions ● Find the gradient of a tangent 	20
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	<p>UNIT -6 DESCRIPTIVE STATISTICS</p> <p>Types of data</p> <p>Data on various scales Data representation and data visualization</p>	<ul style="list-style-type: none"> ● Collection of data up to three variables from real life examples, such as, data of students (age, weight, height) ● Visualization of data using Excel Spreadsheet or any other computer assisted tool 	<ul style="list-style-type: none"> ● Identify real life situations for collecting data ● Collect raw data from practical examples ● Represent data on interval and ratio scale using histogram and frequency polygon ● Represent bivariate 	
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APPLIED MATHEMATICS

CLASS - XI

DECEMBER	Data Interpretation		continuous data using line graph	22
	Measure of Central Tendency	<ul style="list-style-type: none"> ● Examples of different kinds of data helping students to choose and compare different measures of central tendency 	<ul style="list-style-type: none"> ● Calculate mean, median and mode for ungrouped and grouped data 	
	Measure of Dispersion	<ul style="list-style-type: none"> ● Examples of different kinds of data helping students to choose and compare different measures of dispersion 	<ul style="list-style-type: none"> ● Choose appropriate measure of dispersion to calculate spread of data 	
	Skewness and Kurtosis	<ul style="list-style-type: none"> ● Visualization of graphical representation of data using Excel Spreadsheet or any other computer assisted too 	<ul style="list-style-type: none"> ● Interpret Skewness and Kurtosis of a frequency distribution by plotting the graph ● Calculate coefficient of Skewness and interpret the results 	
	Percentile rank and Quartile rank	<ul style="list-style-type: none"> ● Emphasis on visualizing, analysing and interpreting percentile and quartile rank scores 	<ul style="list-style-type: none"> ● Calculate and interpret Percentile and Quartile rank of scores in a given data set 	
	Correlation	<ul style="list-style-type: none"> ● Emphasis on application, analysis and interpreting the results of coefficient of correlation using practical examples 	<ul style="list-style-type: none"> ● Calculate Karl Pearson's coefficient of correlation ● Calculate Spearman's rank correlation ● Interpret the coefficient of correlation 	

	UNIT – 7 FINANCIAL MATHEMATICS Interest and Interest Rates		<ul style="list-style-type: none"> ● Compare the difference between Nominal Interest Rate, Effective 	
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APPLIED MATHEMATICS

CLASS - XI

<p align="center">JANUARY</p>	<p>Accumulation with simple and compound interest</p> <p>Simple and compound interest rates with equivalency</p> <p>Effective rate of interest</p> <p>Present value, net present value and future value</p> <p>Annuities, Calculating value of Regular Annuity</p> <p>Simple applications of regular annuities (upto 3 period)</p> <p>Tax, calculation of tax, simple applications of tax calculation in Goods and</p>	<ul style="list-style-type: none"> ● Impact of high interest rates and low interest rates on the business ●Compound interest rates applications on various financial products ● Concept of Equivalency ● Annual Equivalency Rate ● Effective Annual Interest Rate = $(1 + i/n)^n - 1$ ● Use of PVAF, FVAF tables for practical purposes ● Solve problems based on Application of net present value ●Definition, Formulae and Examples ●Examples of regular annuity: Mortgage Payment, Car Loan Payments, Leases, Rent Payment, Insurance payouts etc. 	<p>Rate and Real Interest Rate</p> <ul style="list-style-type: none"> ● Solve Practical applications of interest rate ● Calculate Simple Interest and Compound Interest ● Analyze various examples for understanding annual equivalency rate ● Define with examples the concept of effective rate of interest ●Apply net present value in capital budgeting decisions ●Calculate General Annuity ●Calculate the future value of regular annuity, annuity due ●Apply the concept of Annuity in real life Situations 	<p align="center">24</p>
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APPLIED MATHEMATICS

CLASS - XI

<p>service tax, Income Tax</p> <p>Bills, tariff rates, fixed charge, surcharge, service charge</p> <p>Calculation and interpretation of electricity bill, water supply bill and other supply bills</p>	<ul style="list-style-type: none"> •Computation of income tax Add Income from Salary, house property, business or profession, capital gain, other sources, etc. Less deductions PF, PPF, LIC, Housing loan, FD, NSC etc. •Assess the Individuals under Income Tax Act •Formula for GST Different Tax heads under GST 	<ul style="list-style-type: none"> •Tariff rates- its basis of determination •Concept of fixed charge service charge and their applications in various sectors of Indian economy •Components of electricity bill/water supply and other supply bills: i) overcharging of electricity ii) water supply bills iii) units consumed in electricity bills 	<ul style="list-style-type: none"> •Explain rules under State Goods and Services Tax (SGST) Central Goods and Services Tax (CGST) and Union Territory Goods and Services Tax (UTGST] •Analyze the meaning and rules determining tariff rates •Explain the concept of fixed charge •To interpret and analyze electricity bills, water bills and other supply bills •Evaluate how to calculate units consumed under electricity bills/water bill 	
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FEBRUARY REVISION FOR FINAL EXAMS & FINAL EXAMS

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ANNUAL PEDAGOGICAL PLAN

Subject – Computer Science			Class - 11	
Month	Topic	Methodology	Learning Outcomes	Working Days
June	(CH-1)Computer System Overview (CH-2)Data Representation	Diagrams, Images, General Discussions Practical Problem Solving	Basic Computer Organization, hardware, software, input device, output device, CPU, memory , units of memory . Types of software: system software, programming tools and language translators , application software Operating system : functions ,user interface. Number system: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems. Encoding schemes: ASCII, ISCII and UNICODE (UTF8, UTF32)	
July	(CH-3)Boolean Logic (CH-6) Getting Started with Python (CH-7) Python Fundamentals (CH-8) Data Handling	Practical Problem Solving Practical in Spyder (Python)	Boolean logic: NOT, AND, OR, NAND, NOR, XOR, truth table, De Morgan’s laws and logic circuits Familiarization with the basics of Python programming. Introduction to	

ANNUAL PEDAGOGICAL PLAN

			Python, features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens, variables, concept of l-value and r-value, use of comments Knowledge of data types, boolean, sequence , none, mapping , mutable and immutable data types	
August	(CH-5) Introduction to Problem Solving (CH-9) Flow of Controls (CH-4) Insight into Program Execution	Practical in Spyder (Python) Problem Solving Technique	develop basic computational thinking. appreciate the notion of algorithm develop a basic understanding of computer systems - architecture, operating system and cloud computing.	
September	Revision & Mid – Term Examination			
October	(CH-10) String Manipulation (CH-11) List Manipulation	Practical in Spyder (Python)	Strings: introduction, indexing, string operations (concatenation, repetition, membership & slicing), traversing a string using loops, built-in functions.	

ANNUAL PEDAGOGICAL PLAN

			Lists: introduction, indexing, list operations , traversing a list using loops, built-in functions, nested lists.	
November	(CH-12) Tuples (CH-13) Dictionaries (CH-14) Understanding Sorting	Practical in Spyder (Python)	Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership & slicing), built-in functions. Dictionary: introduction, accessing items in a dictionary using keys, mutability of dictionary (adding a new item, modifying an existing item), traversing a dictionary, built-in functions. Sorting techniques: Bubble and Insertion sort	
December	(CH-15) Cyber Safety (CH-16) Online Access and Computer Security	Discussion on General Awareness on Cyber Crime.	Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and bullying. Safely accessing web sites: malware, viruses, trojans, adware E-waste management: proper disposal of used	

ANNUAL PEDAGOGICAL PLAN

			electronic gadgets Indian Information Technology Act (IT Act).	
January	(CH-17) Society, Law and Ethics Revision	General Discussions	Understand the value of technology in societies along with consideration of gender and disability issues	
February	Revision			
March	Final Term Examination			

PEDAGOGICAL PLAN 2021-2022

CLASS XI

LEGAL STUDIES

MONTH	TOPIC	METHODOLOGY	LEARNING OUTCOMES	<u>Working Days</u>
June	Unit 1 -Theory and Nature of Political Institutions (a) Concept of State and Nation	The class will begin with a quiz to find out how much students know about State and Nation. The topic will be read and explained. Activity -Write a brief note on Elements of a State. Activity- Allot yourself a role as a leader in one leader in one of state type: Minimal/ Oriental/ Greek city/ Feudal/ Democratic.	Learners will gain knowledge with respect to origin and growth of State. Learners will learn about Role of a State and different kinds of State. Learners will understand different elements and concept of a Nation.	15
	(b) Organs of Government	The class will begin with the diagram showing the organs of government and their hierarchy. The chapter will be read and explained.	Learners will be to identify different forms of govt. They will be able to understand presentation of different bills in each house of Parliament.	
July	© Separation of Powers	The class will begin with a quiz on the Organisation of govt. and their powers. The topic will read and explained. Activity – Write a short note on Montesquieu Doctrine.	The learners shall gain knowledge about Separation of powers. They will understand the application of the doctrine of Separation of powers in modern Constitution.	
July	(d) Basic Features of Indian Constitution	The class will begin with explanation of features of the Indian Constitution. The chapter will be read and explained. Activity – From which Constitution were the following features of our Constitution adopted ; 1. Concepts of Liberty, Equality and Fraternity 2. The Directive Principles	The learners will understand Features of Indian Constitution , Preamble to Constitution, Fundamental Rights, Directive Principles, Fundamental Duties, Adult Suffrage, Single Citizenship. They will understand the Constitutional Provisions for	27

		<p>3. The concept on which Supreme Court was established</p> <p>Activity – Group discussion on the importance and significance of a written and living Constitution..</p>	Amendment of Indian Constitution.	
Aug	U2. Ch 1 – Nature and Sources of Law	<p>The class will begin with a short description of the Case of Speluncean Explorer.</p> <p>The chapter will be read and explained.</p> <p>Activity – Classroom discussion on the connection between Law and Morality in day to day life with examples.</p>	<p>The learners will learn about the historical perspective of Law. They will know about the different schools of law.</p> <p>They will be able to identify functions and purposes of law.</p>	20
Aug	U2 Ch 2 - Classification of Law	<p>The class will begin with a detailed discussion on flowchart on Classification of law. (Page 105)</p> <p>Chapter will be read and explained.</p> <p>Activity – Collect information on any one recent/ ongoing case pertaining mainly to Criminal law.</p>	<p>Learners will understand interrelation of rules. They will be able to understand systematic arrangement of rules. They will be able to differentiate between International Law and Municipal Law.</p>	
Aug	U2, Ch 3 – Sources of Law.	<p>The class will begin with a question “Where does law come from”?</p> <p>Students will share their views on the question.</p> <p>The chapter will be read and explained.</p> <p>Activity – Think of a popular custom which is not translated into law. What are its merit and demerits?</p> <p>Activity – Draw a flow chart of Civil Judicial System and Criminal Judicial System.</p>	<p>Learners will learn formal and material sources of law. They will understand how custom are translated into laws. They will know the essentials of a valid custom. They will know the importance of Judicial Precedent and Legislation as a source of law.</p>	
Aug	U2. Ch 4 Law Reform	<p>Chapter will be read and explained.</p> <p>Activity – Class Discussion on the need for Law Reform.</p>	Learners will understand benefits of Law Reforms.	
Sept	U3. Ch1 – Ancient Indian Law	<p>The class will begin with a short story on Akbar and Birbal. On the basis of the</p>	Learners will learn about the evolution of Ancient Indian Law.	15

Sept	U3 Ch 2 – Administration of Justice in British India	<p>story, students will discuss the significance of justice . Topic will be read and explained.</p> <p>The chapter will be read and explained. Activity – Students will conduct a survey on the opportunities available to a fresh law graduate in India.</p>	<p>They will learn about Hindu Law, Anglo-Hindu Law and Islamic law and its evolution.</p> <p>Learners will learn about the establishment of Mayor’s court, Regulating Act of 1773 and its defects, Charter of 1861 and Federal courts. They will know about the establishment of Supreme Court and High Courts in Free India.</p>	19
Oct	Revision for Mid Term Exams			
Nov	U3. Ch 3- Making of the Indian Constitution	<p>The class will begin with testing the knowledge of students regarding the making of the Constitution with special reference to Dr. B.R.Ambedkar and the Constituent Assembly. The chapter will be read and explained. Activity – Write few points on the distinctive features of the Indian Constitution. Activity – Debate “ Should the Constitution have provisions to make Directive Principles Of State Policy enforceable by court of law just like Fundamental Rights”</p>	<p>Learners will learn about the making and sources of The Indian Constitution. They will understand the underlying meaning of the Preamble to the Constitution. They will learn about Fundamental Rights and Directive Principles of State Policy. They will have deeper insight into the Houses of Parliament. They will learn about the Doctrine of Basic Structure of the Indian Constitution with special reference to Keshavanand Bharti case.</p>	
Dec	U4. Judiciary : Constitutional, Civil & Criminal Courts & Processes	<p>The class will begin with the discussion on the features of Supreme court. Students will give their views on their understanding of the Supreme court. The unit will be read and explained. On the basis of flowchart on Pg 170, the structure and</p>	<p>Learners will understand the salient features of Indian Judiciary, its constitution, its roles and its independence. They will understand the Appellate and Advisory Jurisdiction of Supreme Court.</p>	21

		<p>hierarchy of courts will be explained and discussed. The criminal process will be explained and discussed.</p> <p>Activity – Class will be divided into groups. Each group can choose a topic relating to relating to Indian Judiciary on which they must collect information and present their findings in the class.</p> <p>Activity – Study a criminal case and write the facts and finding in your copy.</p>	<p>They will learn the hierarchy of Indian Legal System. They will know the Civil Court and Criminal Court structure and functioning.</p> <p>They will understand the role of police and Criminal courts in the administration of Criminal Justice.</p>	
Jan	U5. Family Justice System	<p>The class will begin with discussion on topic “Is Family Law important”. The unit will be read and explained.</p> <p>Activity – Case story 01 will be narrated. Students will share their views on Equity of Education.</p> <p>Activity – Case study (Pg 227) on Child Labour will be discussed in class. Students will write their views on Child Labour.</p> <p>Activity – Find out the details about Vishaka’s case and guidelines given by Supreme court on the case.</p>	<p>Learners will learn about laws pertaining to family and personal matters.</p> <p>Learners will gain knowledge about the evolution of Family laws in India. They will understand the relevance of Family Laws and their application.</p> <p>They will learn about Family Courts and Role of women in creation of Family Courts.</p> <p>They will learn laws relating to marriage and divorce, custody of minors, Right of children, Laws on Domestic Violence.</p> <p>They will have detailed understanding of Kinds of property, Inheritance and Succession of property, Rules relating to Intestate and Testamentary Succession.</p>	22

ANNUAL PEDAGOGICAL PLAN

SESSION: 2021-22

CLASS XI

SUBJECT: PHYSICAL EDUCATION

MONTH	UNIT / TOPIC	METHODOLOGY / ACTIVITY	LEARNING OUTCOME	WORKING DAYS
June – July	UNIT 1 Changing trends and career in physical education # Meaning and definition # Aims & objectives of physical education # Career options in physical education # Competitions in various sports at national & international level # Khelo India Program	Lecture method , with the help of white boards & PDF sharing	Students will get aware of scope, aims and objectives of physical education. They will also be able to know about the different types of career options available in physical education and different types of competitions at different-different levels They will also learn about the KHELO INDIA PROGRAM	
August	UNIT 2 Olympic Value Education # Olympics , Paralympics & Special Olympics # Olympic Symbol, Ideals, objectives and values of Olympism # International Olympic Committee # Indian Olympic	Lecture method with the help of white boards & PDF sharing	Students will gain knowledge about Olympics , Paralympics and Special Olympics. They will learn about the Olympic symbols and value of Olympism. They will learn about IOA & IOC and their importance.	

	<p>Association</p> <p>UNIT 3 Physical Fitness, wellness & lifestyle</p> <p># Meaning and importance # Components of physical fitness and wellness # Components of health related fitness</p>		<p>Students will get aware about the physical fitness and its importance. They will also learn about the components of health related fitness.</p>	
September	<p>UNIT 4 Physical education & sports for CWSN</p> <p># Aims & objectives of adaptive physical education</p> <p># Organization promoting adaptive sports.</p> <p># Concept of inclusion, its need & implementation.</p> <p># Role of various professionals for CWSN.</p> <p>UNIT 5 Yoga</p> <p># Meaning and importance of yoga</p> <p># Elements of Yoga</p> <p># Asanas, Pranayama, Meditations & Yogic kriyas</p> <p># Yoga for Concentration # Relaxation Technique</p>	<p>Lecture method & PDF sharing</p> <p>Lecture method, diagrammatic images & PDF sharing</p>	<p>Students will learn about the adaptive physical education and the organization those are promoting adaptive sports.</p> <p>They will also get aware about the concept of inclusion and its importance. Students will also learn about the role of different professionals for CWSN.</p> <p>Students will know about the importance of yoga and elements of yoga.</p> <p>They will also learn about the different yoga for concentration and relaxation technique for improving concentration</p>	

<p>October</p>	<p>UNIT 6 Physical Activity & leadership training</p> <p># Leadership Qualities and role of a leader</p> <p># Creating leaders through physical education</p> <p># Meaning, Objectives & types of adventure sports</p> <p># Safety measures to prevent sports injuries</p>	<p>Lecture method & PDF sharing</p>	<p>Students will learn about the leadership qualities and role of a leader in physical education and sports.</p> <p>They will also get aware about the different types of adventure sports and safety measure to prevent sports injuries .</p>	
<p>November</p>	<p>UNIT 7 Test, Measurement & Evaluation</p> <p># Definition & importance of test, measurement and evaluation in sports.</p> <p>#BMI & Waist-hip ratio</p> <p># Somato types (Endomorphy, Mesomorphy, Ectomorphy)</p> <p># Measurement of health related fitness</p>	<p>Lecture method & PDF sharing</p>	<p>Students will learn about the importance of test, measurement & evaluation in the field of sports.</p> <p>They will also learn about the BMI and Somato types of body.</p> <p>Students will get aware about the measurements of health related fitness.</p>	
<p>December</p>	<p>UNIT 8 Fundamentals of anatomy, physiology and kinesiology in sports.</p> <p># Definitions & importance of anatomy, physiology and kinesiology</p> <p># Function of Skeleton system , classification of bones & types of joints</p>	<p>Lecture method diagrams & PDF sharing</p>	<p>Students will able to learn about the anatomy and kinesiology.</p> <p>They will also get aware about the skeleton system of human body, bones and its classification, joints and its types.</p> <p>They will know about the respiratory system of human</p>	

	<p># Functions of muscles</p> <p># Function & structure of respiratory system</p> <p># Dynamic & Static equilibrium</p>	Lecture method, diagrams & PDF sharing	body.	
January	<p>UNIT 9 Psychology & Sports</p> <p># Importance of Psychology in physical education and sports.</p> <p># Growth and Development</p> <p># Stages of development</p> <p>#Adolescent problems & their management</p> <p>UNIT 10 Training and Doping in Sports</p> <p># Meaning & concept of sports training</p> <p># Principles of sports training</p> <p># Warming up & limbering down</p> <p># Skill, Technique & Style</p> <p># Concept & classification of doping</p> <p># Prohibited substances & their side effects</p>	<p>Lecture method & PDF sharing method</p> <p>Lecture & PDF sharing method</p>	<p>Students will learn about the importance of psychology in field of sports.</p> <p>They will also be able to learn about the difference between growth and development and stages of development of human body</p> <p>They will also get aware of problems of adolescent stage & their management.</p> <p>Students will learn about the training and its importance along with their concepts and meaning.</p> <p>They will also get aware of warming up process, skills, technique.</p> <p>They will be known about the prohibited substances in sports and their side effects</p>	

ANNUAL PEDAGOGICAL PLAN 2021-22

Accountancy (055)

CLASS11TH(COMMERCE)

Month	Topic	Methodology/Activities	Learning Outcome	Working Days
JUNE	<p>Accounting- concept, objectives, advantages and limitations, types of Branches of accounting; types of accounting information, users of accounting information and their needs.</p> <p>Basic accounting terms: business transaction, account, capital, drawings, liabilities (non - current and current); assets (non-current and current) fixed assets (tangible and intangible assets), receipts (capital and revenue), expenditure (capital, revenue and deferred), expense, income, profits, gains and losses, purchases, purchases returns, sales, sales return, goods, stock, inventory, trade receivables (debtors and bills receivable), trade payables (creditors and bills payable), cost, vouchers, discount - trade and cash</p>	<p>Smart Board; Lecture Notes,</p> <p>Google classroom ,PPT</p> <p>Assignment</p> <ul style="list-style-type: none"> •NCERT Questions •CBSE Sample Paper •CBSE Test Paper •Revision worksheets •Practice Assignment 	<p>After going through this Unit, the students will be able to</p> <p>Describe the meaning, significance, objectives, advantages and limitations of accounting in the modern economic environment with varied types of business and non-business economic entities.</p> <ul style="list-style-type: none"> •identify / recognize the individual(s) and entities that use accounting information for serving their needs of decision making <p>Understand the various terms used in accounting and differentiate between different related terms like current and non-current, capital and revenue.</p> <ul style="list-style-type: none"> •give examples of terms like business transaction, liabilities, assets, expenditure and purchases explain that sales/purchases include both cash and credit sales/purchases relating to the accounting year •Differentiate among income, profits and gains. 	

	<p>Theory Base of Accounting: Fundamental accounting assumptions: going concern, consistency and accrual. Accounting principles: accounting entity, money measurement, accounting period, full disclosure, materiality, prudence, cost concept, matching concept and dual aspect.</p> <p>Accounting Standards and IFRS (International Financial Reporting Standards): concept and objectives Double entry system of accounting.</p>	<p>Smart Board; Lecture Notes,</p> <p>Assignment</p> <ul style="list-style-type: none"> •NCERT Questions •CBSE Sample Paper •CBSE Test Paper •Practice Assignment <p>Google classroom ,PPT</p>	<p>After going through this Unit, the students will be able to</p> <p>State the meaning of fundamental accounting assumptions and their relevance in accounting.</p> <ul style="list-style-type: none"> •Describe the meaning of accounting assumptions and the situation in which an assumption is applied during the accounting process. •Explain the meaning and objectives of accounting standards. •Appreciate that various accounting standards developed nationally and globally are in practice for bringing parity in the accounting treatment of different items. •Acknowledge the fact that recording 	
			<ul style="list-style-type: none"> of accounting transactions follows double entry system. •Understand the need of IFRS 	

<p style="text-align: center;">JULY</p>	<p>Bases of accounting - cash basis and accrual basis.</p> <p>Recording of Transactions Accounting equation: analysis of transactions using accounting equation.</p> <p>Rules of debit and credit: for assets, liabilities, capital, revenue and expenses.</p> <p>Documents/ supporting Origin of transactions- source vouchers (invoice, cash memo, pay in slip, cheque etc.), debit note, credit note, preparation of accounting vouchers - cash (debit and credit) and non-cash (transfer).</p>	<p>Smart Board; Lecture Notes,</p> <p>Google classroom</p> <p>PPT</p> <p>Assignment</p> <ul style="list-style-type: none"> •NCERT Questions •CBSE Sample Paper •CBSE Test Paper •Practice Assignment 	<p>After going through this Unit, the students will be able to</p> <ul style="list-style-type: none"> •Explain the bases of recording accounting transaction and to appreciate that accrual basis is a better basis for depicting the correct financial position of an enterprise. •explain the concept of accounting equation and appreciate that every transaction affects either both the sides of the equation or a positive effect on one item and a negative effect on another item on the same side of accounting equation •explain the effect of a transaction (increase or decrease) on the assets, liabilities, capital, revenue and expenses. •Identify both aspect of transaction and •which aspect of the transaction is to be given debited and which aspect of the transaction is to be given credited •Appreciate that on the basis of source documents, accounting vouchers are prepared for recording Transaction in the books of accounts. 	
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<p>July/ August</p>	<p>Goods and Services Tax (GST): Characteristics and Objective Journal. Books of original entry: format and recording – Ledger - format, posting from journal, cash book and other special purpose books, balancing of accounts</p>	<p>Smart Board; Lecture Notes, Google classroom PPT Assignment</p> <ul style="list-style-type: none"> •NCERT Questions •CBSE Sample Paper •CBSE Test Paper •Practice Assignment 	<p>After going through this Unit, the students will be able to</p> <ul style="list-style-type: none"> •Develop the understanding of recording of transactions in journal and the skill of calculating GST. How posting is done from journal, cash book and other special purpose books, balancing of accounts 	
<p>August</p>	<p>Trial balance: objectives and preparation {Scope: Trial balance with balance method only)</p>	<p>Art Integrated Learning Prepare a scrap book by pasting various assets around you &</p>	<p>After going through this Unit, the students will be able to</p> <ul style="list-style-type: none"> •State the need and objectives of 	

	<p>Cash book: simple cash book, cash book with bank columns and petty cash book.</p> <p>Ledger posting from cash book And balancing of accounts</p> <p>Other books: purchases book, sales book, purchases returns book, sales returns book and journal proper.</p> <p>Ledgerposting from other special purpose books, balancing of accounts Bank reconciliation statement- concept, calculating bank balance at an accounting date: need and preparation</p> <p>Depreciationconcept, need and factors affecting depreciation; methods of computation of depreciation: straight line method, written down value method (excluding change in method) Accounting treatment of depreciation: by charging to asset account, by creating provision for depreciation/ accumulated depreciation account, treatment of disposal of asset</p>	<p>classify them into types of Assets.</p> <p>Smart Board; Lecture Notes, Google classroom</p> <p>PPT</p> <p>Assignment</p> <ul style="list-style-type: none"> •NCERT Questions •CBSE Sample Paper •CBSE Test Paper •Practice Assignment 	<p>preparing trial balance and develop the skill of preparing trial balance.</p> <ul style="list-style-type: none"> •explain the purpose of maintaining a Cash Book and develop the skill of preparing the format of different types of cash books and the method of recording cash transactions in Cash book •Describe the method of recording transactions other than cash transactions as per their nature in different subsidiary books. Appreciate that at times bank balance as indicated by cash book is different from the bank balance as shown by the pass book /bank statement •develop understanding of preparing bank reconciliation statement •Explain the necessity of providing depreciation and develop the skill of using different methods for computing depreciation. •understand the accounting treatment of providing depreciation directly to the concerned asset account or by creating provision for depreciation account •Appreciate the method of asset disposal through the concerned asset account or by preparing asset disposal account.
<p>September</p>	<p>MID TERM Examinations</p>		
<p>October</p>	<p>Provisions and reserves: concept, objectives and difference between provisions and reserves; types of reserves- revenue reserve, capital reserve, general reserve and specific reserves</p> <p>Accounting for Bills of Exchange.</p>	<p>Smart Board; Lecture Notes,</p> <p>Google classroom PPT</p> <p>Assignment</p>	<p>After going through this Unit, the students will be able to</p> <ul style="list-style-type: none"> •Appreciate the need for creating reserves and also making provisions for events which may belong to the current year but may happen in next year. •Appreciate the difference between

	<p>Bills of exchange and promissory note: definition, features, parties, specimen</p>	<ul style="list-style-type: none"> •NCERT Questions 	<p>reserve and reserve fund.</p> <ul style="list-style-type: none"> •acquire the knowledge of using bills
	<p>and distinction. Important terms : term of bill, due date, days of grace, date of maturity, discounting of bill, endorsement of bill, bill sent for collection, dishonor of bill, noting of bill.</p>	<ul style="list-style-type: none"> •CBSE Sample Paper •CBSE Test Paper •Practice Assignment <p>Draw/design a cheque book and an ATM Card.</p>	<p>of exchange and promissory notes for financing business transactions;</p> <ul style="list-style-type: none"> •Understand the meaning and distinctive features of these instruments and develop the skills of their preparation. •State the meaning of different terms used in bills of exchange and their implication in accounting. •explain the method of recording of bill transactions
	<p>Rectification of Errors Errors: types-errors of omission, commission, principles, and compensating; their effect on Trial Balance. Detection and rectification of errors; preparation of suspense account.</p>	<p>Smart Board; Lecture Notes,</p> <p>Google classroom</p> <p>PPT</p>	<p>After going through this Unit, the students will be able to</p> <ul style="list-style-type: none"> •Appreciate that errors may be committed during the process of accounting. •Understand the meaning of different types of errors and their effect on trial balance. •Develop the skill of identification and location of errors and their rectification and preparation of suspense account.
<p>November</p>	<p>Financial statements: objective and importance. Trading and profit and loss account: gross profit, operating profit and net profit. Balance sheet: need, grouping, marshaling of assets and liabilities.</p>	<p>Smart Board; Lecture Notes,</p> <p>PPT</p> <p>Google classroom</p> <p>Assignment</p> <ul style="list-style-type: none"> •NCERT Questions •CBSE Sample Paper •CBSE Test Paper •Practice Assignment 	<p>After going through this Unit, the students will be able to</p> <ul style="list-style-type: none"> •state the meaning of financial statements the •Purpose of preparing financial statements. •State the meaning of gross profit, operating profit and net profit and develop the skill of preparing trading and profit and loss account. •Explain the need for preparing balance sheet. provisions, abnormal loss etc.

		<p>Make a flowchart of types of Expenses. Prepare a scrapbook showing direct & indirect expenses.</p>	
December	<p>Adjustments in preparation of financial statements: with respect to closing stock, outstanding expenses, prepaid expenses, accrued income, and income received in advance, depreciation, bad debts, provision for doubtful debts, provision for discount on debtors, abnormal loss, goods taken for personal use, goods distributed as free samples and manager's commission. Preparation of Trading and Profit and Loss account and Balance Sheet of sole proprietorship</p> <p>Incomplete records: uses and limitations. Ascertainment of profit/loss by statement of affairs method.</p>	<p>Smart Board; Lecture Notes, Google classroom PPT</p> <p>Assignment</p> <ul style="list-style-type: none"> •NCERT Questions •CBSE Sample Paper •CBSE Test Paper •Practice Assignment 	<p>After going through this Unit, the students will be able to</p> <ul style="list-style-type: none"> •Understand the technique of grouping and marshalling of assets and liabilities. •appreciate that there may be certain items other than those shown in trial balance which may need adjustments while preparing financial statements. •Develop the understanding and skill to do adjustments for items and their presentation in financial statements like depreciation, closing stock, provisions, abnormal loss etc. •Develop the skill of preparation of trading and profit and loss account and balance sheet. •State the meaning of incomplete records and their uses and limitations. •Develop the understanding and skill of computation of profit / loss using the statement of affairs method.
	<p>Introduction to computer and accounting information system {AIS}: Introduction to computers (elements, capabilities, limitations of computer system),</p>	<p>Smart Board; Lecture Notes, PPT Google classroom</p> <p>Assignment</p>	<p>After going through this Unit, the students will be able to</p> <ul style="list-style-type: none"> •State the meaning of a computer, describe its components, capabilities and limitations. •state the meaning of accounting information system •Appreciate the need for use of

<p>January</p>		<ul style="list-style-type: none"> •NCERT Questions •CBSE Sample Paper •CBSE Test Paper •Practice Assignment 	<p>computers in accounting for preparing accounting reports.</p> <ul style="list-style-type: none"> •develop the understanding of comparing the manual and computerized accounting process and appreciate the advantages and limitations of automation •Understand the different kinds of accounting software.
<p>February</p>	<p>COMPREHENSIVE PROJECT It is Suggested to undertake this project after completing the unit on preparation of financial statements. The student(s) will be allowed to select any business of their choice or develop the transaction of imaginary business. The project is to run through the chapters and make the project an interesting process. The amounts should emerge as more realistic and closer to reality</p>		

ANNUAL PEDAGOGICAL PLAN
ACADEMIC SYLLABUS 2020-21

CLASS 11

SUBJECT – ECONOMICS

MON TH	TOPIC	SUB TOPIC	METHODOL OGY	LEARNING OUTCOMES	NO. OF WORKI NG DAYS
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JUNE	BOOK-1 MICRO ECONOMICS UNIT -1 INTRODUCTION BOOK-2 STATISTICS UNIT-1 INTRODUCTION	Meaning of microeconomics and macroeconomics; positive and normative economics What is an economy? Central problems of an economy: what, how and for whom to produce; opportunity cost. What is Economics? Meaning, scope, functions and importance of statistics in Economics	-Online classes (Google class room) -Power point presentations -Short videos. - chalk board method.(online) -lecture method . -Explanation with examples	Equipment with basic tools of economics and statistics to analyse economic issues. This is pertinent for even those who may not pursue this course beyond senior secondary stage	16
JULY	BOOK-1 MICRO ECONOMICS UNIT-2 Consumers Equilibrium & Demand	Consumer's equilibrium - meaning of utility, marginal utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis.	Online classes (Google class room) -Power point presentations -Short videos. - chalk board method.(online)	Students will be able to understand the concept of utility and satisfaction, Marginal utility of money - single and double commodity approach concept of IC with its	19

		<p>Indifference curve analysis of consumer equilibrium - Consumer's budget , Properties of IC</p> <p>Condition of consumer equilibrium</p>	<p>-lecture method . -Explanation with examples</p>	<p>properties, consumer's equilibrium using IC analysis.</p>	
		<p>Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, movement along and shifts in the demand curve; price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand – percentage-change method.</p>	<p>Online classes (Google class room) -Power point presentations -Short videos. - chalk board method.(online) -lecture method . -Explanation with examples</p>	<p>Students are able to answer the concept of individual demand and market demand, determinants, exceptions, movement along demand curve and shift in demand curve. Concept of price elasticity of demand and measurement of demand</p>	
<p>July</p>	<p>BOOK-2 STATISTICS UNIT-2 Collection of data, census and sample method, Organization of Data –</p>	<p>Collection of data - sources of data - primary and secondary; how basic data is collected, with concepts of Sampling; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organisation. Organisation meaning and types of variables, frequency distribution .</p>	<p>Online classes (Zoom /Google class room) -Power point presentations -Short videos. - chalk board method.(online) -lecture method . -Explanation with examples</p>	<p>To develop the skill of data collection, organisation and presentation. It also aims to equip the learners with some basic statistical tools so that they can easily analyse, and comprehend any economic information and illustrate appropriate conclusions. The units deals with chapters on the meaning of</p>	<p>7</p>

AUGUST	<p>BOOK-2 STATISTICS UNIT -3</p> <ul style="list-style-type: none"> Measures of central tendency measures of dispersion 	<p>Measures of central tendency - MEAN , MEDIAN, MODE.</p> <p>Measures of dispersion - RANGE , MEAN DEVIATION- MEAN AND MEDIAN , QUARTILE DEVIATION AND STANDARD DEVIATION</p>	<p>Online classes (Google class room) -Problem solving method -chalk board method.(online) -Illustrative method .</p>	<p>THE STUDENTS ARE MADE FAMILIAR ABOUT THE MEASURES OF CENTRAL TENDENCY VARIOUS METHODS TO CALCULATE MEAN , MEDIAN , MODE Students will be familiar with deviation of mean , quartile deviation and standard deviation</p>	23
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SEPTEMBER	<p>Textual & Tabular, Diagrammatic Presentation-Bar & Pie Diagram & graphs</p>	<p>Presentation of Data: Tabular Presentation and Diagrammatic Presentation of Data:</p> <p>(i) Geometric forms (bar diagrams and pie diagrams), (ii) Frequency diagrams (histogram, polygon and Ogive) and (iii) Arithmetic line graphs (time series graph) (iv) frequency distribution graph :-</p>	<p>Online classes (Google class room) -Power point presentations -Short videos. - chalk board method.(online) -lecture method .</p>	<p>economics as well as the meaning and scope of statistics in economics, data collection, organization and presentation and statistical tools and interpretation. There is a separate unit that deals with developing projects in economics. Here the students are expected to develop projects, which have primary data, secondary data or both.</p>	8
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		POLYGON , HISTOGRAM , OGIVE			
September		First Term examination	First Term examination	First Term examination	
October	<p>BOOK-1 MICRO ECONOMICS UNIT -3</p> <p>Production function</p> <p>Concept of cost</p>	<p>Meaning of Production Function – Short-Run and Long-Run.Total Product, Average Product and Marginal Product.Returns to a Factor</p> <p>Cost: Short run costs - total cost, total fixed cost, total variable cost; Average cost;Average fixed cost, average variable cost and marginal cost- meaning and their relations.</p>	<p>Online classes (Google class room)</p> <p>-Power point presentations</p> <p>-Short videos.</p> <p>- chalk board method.(online)</p> <p>-lecture method .</p> <p>-Explanation with examples.</p>	<p>After reading this material the learners will be able to:</p> <ol style="list-style-type: none"> 1. Define the basic concept of production function 2. Enlist various concepts to be remembered while calculating the costs 3. Recognize the formulae for finding out different costs. 	14

November	<p>BOOK-1 MICRO ECONOMICS UNIT -3</p> <ul style="list-style-type: none"> • Concept of Revenue • producers equilibrium • supply <p>BOOK-2 STATISTICS UNIT-3 CORRELATION</p>	<p>Revenue - total, average and marginal revenue - meaning and their relationship.</p> <p>Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply.</p> <p>CORRELATION :- KARL PEARSON COEFFICIENT OF CORRELATION AND SPEARMAN'S RANK CORRELATION &</p>	<p>Online classes (Google class room)</p> <p>-Power point presentations</p> <p>-Short videos.</p> <p>- chalk board method.(online)</p> <p>-lecture method .</p> <p>-Explanation with examples</p>	<p>After reading this material the learners will be able to:</p> <ol style="list-style-type: none"> 1. Define revenue, different types of markets. 2. List out the components of revenue 3. Identify the different type of market conditions . 4. Students will be inculcated 	23
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		SCATTERED DIAGRAM		to correlate between 2 variables.	
December	BOOK-2 STATISTICS UNIT -3 Index Numbers. BOOK -1 MICRO ECONOMICS UNIT-4 MARKET AND ITS FORMS & PRICE DETERMINATION UNDER PERFECT MARKET.	.meaning, types - wholesale price index, consumer price index , uses of index numbers; Inflation and index numbers. Simple Applications of Demand and Supply: Price ceiling, price floor.	Online classes (Google class room) -Power point presentations -Short videos. - chalk board method.(online) -lecture method . -Explanation with examples	After reading this material the learners will be able to: 1. Define types of index numbers. 2. Draw applications of demand and supply 3. Recognize the formulae for finding out different index numbers.	16
January	REVISION	FOR	FINAL TERM	EXAMINATION	23
February	FINAL	TERM	EXAMINATION		

ANNUAL PEDAGOGICAL PLAN-2021-22

CLASS XI [BIOLOGY]

MONTH	UNIT/TOPIC	METHODOLOGY/ACTIVITIES	LEARNING OUTCOME	WORKING DAYS
APRIL	1.THE LIVING WORLD	CLASSROOM ,PPT PRESENTATION	STUDENTS WILL BE ABLE TO ANSWER	18
	2.BIOLOGICAL CLASSIFICATION	BOARD MARKER,SHORT VIDEOS GOOGLE TESTS	TAXA AND TAXONOMICAL CATEGORY STUDENTS ARE ABLE TO CLASSIFY BACTERIA AND FUNGI ON THE BASIS OF THEIR CHARACTERISTICS	
MAY	3.PLANT KINGDOM	CLASSROOM,PPT BOARD MARKER,SHORT VIDEOS TEST GOOGLE	STUDENTS ARE ABLE TO CLASSIFY PLANTS ON THE BASIS OF CHARACTERISTICS	12
JUNE	4.ANIMAL KINGDOM	CLASSROOM,PPT PRESENTATION	STUDENTS ARE ABLE TO CLASSIFY PLANT TISSUES	15
	5.ANATOMY OF FLOWERING PLANTS	BOARD MARKER,SHORT VIDEOS TEST VIDEOS	THEY UNDERSTOOD THE DIFFERENCE BETWEEN PLANT AND ANIMAL TISSUES	
JULY	6.ANATOMY OF FLOWERING PLANTS	CLASSROOM,PPT PRESENTATION	STUDENTS ARE ABLE TO CLASSIFY ANIMAL TISSUES,THEY CAN DRAW THEM	23
	7.STRUCTURAL ORGANISATION OF ANIMALS	BOARD MARKER,SHORT VIDEOS TEST GOOGLE	STUDENTS ARE ABLE TO DIFFERENTIATE BETWEEN TYPES OF CELL,CAN RECOGNISE DIFFERENT CELL ORGANELLE	
AUGUST	8.THE CELL	CLASSROOM,PPT,BOARD MARKER	CAN DIFFERENTIATE BETWEEN BIOMOLECULES	25
	9.BIOMOLECULES	LECTURE METHOD,SHORT VIDEOS	CAN EXPLAIN THE SIGNIFICANCE OF ENZYMES	
	10.CELL CYCLE AND CELL DIVISION	GOOGLE TESTS	ABLE TO DIFFERENTIATE BETWEEN SOMATIC AND GERM CELL	
SEPTEMBER	11.TRANSPORT IN PLANTS	CLASSROOM,PPT,LECTURE METHOD	CAN ANSWER HOW DOES ABSORPTION OF WATER OCCUR IN PLANTS,	
	12.MINERAL NUTRITION IN PLANTS	SHORT VIDEOS	ROLE OF TRANSPIRATION	
	13.RESPIRATION IN PLANTS	GOOGLE TESTS	ABLE TO DIFFERENTIATE BETWEEN MACRO N MICRO NUTRIENTS,ROLE OF NUTRITION IN GROWTH ABLE TO ANSWER THE GLYCOLYSIS KREB CYCLE,	

ANNUAL PEDAGOGICAL PLAN-2021-22
CLASS XI [BIOLOGY]

SEPTEMBER	HALF YEARLY EXAMINATION		ART-INTEGRATED ACTIVITY TO MAKE A MODEL OF ANY BODY SYSTEM BY THE HELP OF CLAY	
OCTOBER	14.PHOTOSYNTHESIS IN HIGHER PLANTS	CLASSROOM,PPT	PROMOTING THE GROWTH INHIBITING HORMONES	18
	15.GROWTH REGULATORS AND DEVELOPMENT	LECTURE METHOD	STUDENTS ARE ABLE TO DIFFERENTIATE	
	16.DIGESTION AND ABSORPTION	GOOGLE TESTS	BETWEEN TEETH KNOW THE ROLE OF DIFFERENT ENZYMES IN DIGESTION	
NOVEMBER	17.BREATHING AND EXCHANGE OF GASES	CLASSROOM TEACHING	STUDENTS ARE ABLE TO ANSWER WHY LUNGS ARE SIGNIFICANT	
	18.EXCRETORY PRODUCTS AND THEIR ELIMINATION	LECTURE METHOD	IN RESPIRATION	
	19.BODY FLUIDS AND CIRCULATION	SHORT VIDEOS	STUDENTS ARE ABLE TO DRAW KIDNEY AND NEPHRON CAN EXPLAIN FORMATION OF URINE ROLE OF ECG THEY WILL EXPLAIN ABOUT HEART ATTACK AND CARDIAC ARREST	
DECEMBER	20.NEURAL CONTROL AND COORDINATION	CLASSROOM TEACHING	STUDENTS ARE ABLE TO DIFFERENTIATE BETWEEN	18
	21.LOCOMOTION AND MOVEMENT	LECTURE METHOD PPT SHORT VIDEOS	CNS AND PNS CAN EXPLAIN	
JANUARY	CHEMICAL CONTROL AND COORDINATION	CLASSROOM TEACHING LECTURE METHOD PPT PRESENTATION SHORT VIDEOS	STUDENTS KNOW THE DIFFERENT TYPES OF BONES AND JOINTS THEY LEARN THE ROLE OF HORMONES AND DISEASE CAUSED BY THEIR DEFICIENCY	18

ANNUAL PEDAGOGICAL PLAN (2021-22)

CLASS XI

CHEMISTRY

MONTH	UNIT/ CONTENT	METHODOLOGY	LEARNING OUTCOMES	NUMBER OF WORKING DAYS
June	"SOME BASIC CONCEPTS OF CHEMISTRY General Introduction: Importance and scope of chemistry. Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry." "	Lecture Method, previous year questions discussion method Google meet, PPT, Board Marker, NCERT Question solving.	Students will gain an understanding of the fundamental properties of atom, molecules and various state of matter with an emphasis on the particulate nature of matter. Fundamental atomic structure and the periodicity of elements of the periodic table. The learner will understand the concepts, rules or procedures to calculate molecular formulas of compound . Learner will understand solution preparation technique to prepare different concentration of solution.	14
June	"STRUCTURE OF ATOM Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms,	Lecture Method, previous year questions discussion method Google meet, PPT, Board Marker, NCERT Question solving.	The structure of atom in terms of proton neutrons and electrons with the understood by the learner . As a result of work done by previous scientist on atomic models , scientist now have a good idea how atom looks like . This knowledge is important to understand why	14

	stability of half-filled and completely filled orbitals. "		materials have different properties and why some materials bond with others .	
July	<p><u>CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES</u> Modern periodic law and the present form of periodic table, periodic trends in properties of elements - atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100.</p>	Discussion of assignment given, Board Papers, Sample Papers Google meet, ppt, animated videos, NCERT questions.	The students will learn how the chemical elements are arranged on the periodic table . Students will be able to arrange the elements on the periodic table . Students will learn about some of the important chemical and physical properties of the elements. Arrange elements in order of relative atomic mass and note differences with modern periodic table .	27
July	<p>"CHEMICAL BONDING AND MOLECULAR STRUCTURE Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization, involving s, p and d orbitals and shapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules (qualitative idea only), hydrogen bond. "</p>	Discussion of assignment given, Board Papers, Sample Papers Google meet, ppt, animated videos, Ncert questions	The learner will understand the common themes running through ionic , covalent and metallic descriptions of chemical bonding . Understand how the concept of electro negativity and its variation over the periodic table can be used to rationalised the nature of bonding . Learner will understand types of bonding and adaptability of compound.	27

July	<p>"STATES OF MATTER Three states of matter, intermolecular interactions, types of bonding, melting and boiling points, role of gas laws in elucidating the concept of the molecule, Boyle's law, Charles law, Gay Lussac's law, Avogadro's law, ideal behaviour, empirical derivation of gas equation, Avogadro's number, ideal gas equation. Deviation from ideal behaviour, liquefaction of gases, critical temperature, kinetic energy and molecular speeds (elementary idea) Liquid State: vapour pressure, viscosity and surface tension (qualitative idea only)"</p>	<p>Discussion of assignment given, Board Papers, Sample Papers Google meet, ppt, animated videos, NCERT questions</p>	<p>Student will be able to differentiate between a solid , liquid and gas . Student will able to give examples of change in states of matter from heating and cooling. Students can relate gases law with their day to day life . They can understand phenomenon like boiling point viscosity and surface tension and factors affecting on it.</p>	27
August	<p>"CHEMICAL THERMODYNAMICS Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of ΔU and ΔH, Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Second law of Thermodynamics (brief introduction).Introduction of entropy as a state function, Gibb's energy change for spontaneous and nonspontaneous processes, criteria for equilibrium. Third</p>	<p>Discussion of assignment given, Board Papers, Sample Papers Google meet, ppt, animated videos, NCERT questions</p>	<p>Learner will understand the force , temperature , work energy and heat . They will learn first law of thermodynamics and other basics concepts . Writes the energy balance on closed and opened system . They can relate and entropy of different states of matter . They can solve problems related to energy . They can learn different modes of energy.</p>	20

	law of thermodynamics (brief introduction)"			
August	"CHEMICAL EQUILIBRIUM: Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium- Le Chatelier's principle, ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids, acid strength, concept of pH, Henderson Equation, hydrolysis of salts (elementary idea), buffer solution, solubility product, common ion effect (with illustrative examples)."	Discussion of assignment given, Board Papers, Sample Papers Google meet, ppt, animated videos, NCERT questions	Students will learn equilibrium reactions , both product and reactants. They can relate equilibrium reactions the human body are essentials for life and can be used in chemical manufacturing industries. Recall factors that Le Chatelier`s principle state will affect the equilibrium of a system.	20
September	"REDOX REACTION Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number. Application of redox reaction."	" Discussion of assignment given, Board Papers, Sample Papers Google meet, ppt, animated videos, NCERT questions mind mapping, instructional design, adaptive learning. "	Problem solving skill will be developed . They will learn to calculate the oxidation number to element in redox reaction , identify the elements , oxidized and reduced . Write simple half reaction . Assess the practical application of oxidation and reduction reaction.	26
September	Revision for mid term			
October	"HYDROGEN Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen, hydrides- ionic covalent and interstitial; physical and chemical	"Google meet, ppt, animated videos, mind mapping, lecture method. Discussion of assignment given, Board Papers, Sample Papers Google	Learner will recall relate properties of hydrogen . Can memorize different preparation methods of hydrogen . Can understand about	22

	properties of water, heavy water, hydrogen peroxide - preparation, reactions and structure and use; hydrogen as a fuel."	meet, ppt, animated videos, NCERT questions mind mapping, instructional design, adaptive learning. "	structure of water and hydrogen peroxide . They can analyse the importance of hydrogen peroxide . They can understand hydrogen economy.	
October	"S BLOCK ELEMENTS Group 1 and Group 2 Elements General introduction, electronic configuration, occurrence, anomalous properties of the first element of each group, diagonal relationship, trends in the variation of properties (such as ionization enthalpy, atomic and ionic radii), trends in chemical reactivity with oxygen, water, hydrogen and halogens, uses. Preparation and Properties of Some Important Compounds: Sodium Carbonate, Sodium Chloride, Sodium Hydroxide and Sodium Hydrogen carbonate, Biological importance of Sodium and Potassium. Calcium Oxide and Calcium Carbonate and their industrial uses, biological importance of Magnesium and Calcium. "	"Discussion of assignment given, Board Papers, Sample Papers Google meet, ppt, animated videos, NCERT questions mind mapping, instructional design, adaptive learning."	Recall general trends in the periodic table of elements . Recall methods for the synthesis of the s block elements . Recall the structures and properties and application and the chemical reactivity of the s block elements . Differentiate the different allotropes of the s block elements .Students can recall different compounds and its preparation and properties of s block elements.	22

November	"P BLOCK ELEMENTS Group 13 Elements: General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous properties of first element of the group, Boron - physical and chemical properties, some important compounds, Borax, Boric acid, Boron Hydrides, Aluminum: Reactions with acids and alkalis, uses."	"Discussion method, Lecture, ppt, Google meet, Adaptive Learning, Demonstration method."	Recall general trends in the periodic table of elements . Recall methods for the synthesis of the P block elements . Recall the structures and properties and application and the chemical reactivity of the P block elements. Differentiate the different allotropes of the P block elements .Students can recall different compounds and its preparation and properties of P block elements.	19
November	"Group 14 Elements: General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behaviour of first elements. Carbon -catenation, allotropic forms, physical and chemical properties; uses of some important compounds: oxides. Important compounds of Silicon and a few uses Silicones, Silicates and Zeolites, their uses."	"Discussion method, Lecture, ppt, Google meet, Adaptive Learning, Demonstration method."	Recall general trends in the periodic table of elements . Recall methods for the synthesis of the P block elements . Recall the structures and properties and application and the chemical reactivity of the P block elements . Differentiate the different allotropes of the P block elements .Students can recall different compounds and its preparation and properties of P block elements.	19
December	"ORGANIC CHEMISTRY - SOME BASIC PRINCIPLES AND TECHNIQUE General introduction, methods of purification, qualitative and quantitative analysis, classification and IUPAC	Discussion method, Lecture, ppt, Google meet, Adaptive Learning, Demonstration method. Sample Paper	Able to predict the reactivity of the organic compound from its structure . Able to understand the rules for naming different organic	22

	nomenclature of organic compounds. Electronic displacements in a covalent bond: inductive effect, electrometric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles, types of organic reactions."		compound . Able to recognize mechanism for given chemical reaction . Recall reaction intermediates and apply it in chemical reaction.	
January	"HYDROCARBONS Classification of Hydrocarbons Aliphatic Hydrocarbons: Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis. Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markownikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition. Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water. Aromatic Hydrocarbons: Introduction, IUPAC	Google meet , Ppt , lecture method , NCERT questions , sample paper , discussion method	Learner can interpret the reactions and properties of hydrocarbon . Evaluate effects of atomic properties on acidity and basicity . Designs reactions of aliphatic hydrocarbons , prepare alkanes , alkene and alkynes using different methods. Through mind mapping students can associates the properties of hydrocarbons . Evaluate the importance of hydrocarbons in day to day life . Illustrates reactions of hydrocarbons.	21

	nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation, directive influence of functional group in monosubstituted benzene."			
January	"ENVIRONMENTAL CHEMISTRY Environmental pollution - air, water and soil pollution, chemical reactions in atmosphere, smog, major atmospheric pollutants, acid rain, ozone and its reactions, effects of depletion of ozone layer, greenhouse effect and global warming- pollution due to industrial wastes, green chemistry as an alternative tool for reducing pollution, strategies for control of environmental pollution."	Google meet, Ppt , sample paper , lecture method , discussion ,mind mapping , adaptive method.	Appreciate concepts and methods from ecological and physical signs and their application in environmental problem solving . Appreciate the ethical cross culture and historical context of environmental issues and link between human and natural system . Reflect critically about their roles and identity as citizens consumers and environmental actors in a complex interconnected world.	21
February	Revision for exam			23
March	Final Exams			23

ANNUAL PEDAGOGICAL PLANNER 2021-22

Class - XI

Subject:-PHYSICS

Month	Unit/Topic	Methodology/Activity (Through On-line Lab Web-site)	Learning Outcome	Working days
June	<p>Unit-1 Physical World and Measurement Chapter-1: Physical World Physics-scope and excitement; nature of physical laws; Physics, technology and society. Chapter-2: Units and Measurements Need for measurement: Units of Measurement; systems of units; SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement; significant figures. Dimensions of physical quantities, dimensional analysis and its applications. Unit-2 Kinematics Chapter-3: Motion in a Straight Line Frame of reference, Motion in a straight line: Position-time graph, speed and velocity. Elementary concepts of differentiation and integration for describing motion, uniform and non- uniform motion, average speed and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment).</p>	<ol style="list-style-type: none"> 1. Lecture Method using White board online 2. PPT slide 3. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Calipers and hence find its volume. 	Emphasis on basic conceptual understanding of the content. Emphasis on use of SI units, symbols, nomenclature of physical quantities and formulations as per international Standards.	
July	<p>Unit-2 Kinematics Chapter-4: Motion in a Plane Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors, relative velocity, Unit vector; resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors. Motion in a plane, cases of uniform velocity and uniform acceleration projectile motion, uniform circular motion.</p>	<ol style="list-style-type: none"> 1. Lecture Method using Online White Board 2. Animation Video 3. To measure diameter of a given wire and thickness of a given sheet using screw gauge. 	Providing logical sequencing of units of the subject matter and proper placement of concepts with their linkage for better learning.	

	<p>Unit -3 Laws of Motion Chapter-5: Laws of Motion Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion.</p>			
August	<p>Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication. Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).</p> <p>Unit-4 Work, Energy Power Chapter-6: Work, Energy and Power Work done by a constant force and a variable force; kinetic energy, work energy theorem, power. Notion of potential energy, potential energy of a spring, conservative forces: conservation of mechanical energy (kinetic and potential energies); non-conservative forces: motion in a vertical circle; elastic and inelastic collisions in one and two dimensions.</p>	<ol style="list-style-type: none"> 1. Lecture Method using Online White Board 2. Animation Video 3. To determine radius of curvature of a given spherical surface by a spherometer. 	Expose the learners to different processes used in Physics related industrial and technological applications.	
September	<p>Unit-5 Motion of System of Particle and Rigid Body Chapter-7: System of Particles and Rotational Motion Centre of mass of a two-particle system, momentum conservation and centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod. Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions. Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation). Statement of parallel and perpendicular axes theorems and their applications.</p>	<ol style="list-style-type: none"> 1. Lecture Method using Online White Board 2. PPT Slide 3. To determine the mass of two different objects using a beam balance. 	Develop process-skills and experimental, observational, manipulative, decision making and investigatory skills in the learners. Promote problem solving abilities and creative thinking in learners.	
Mid Term Exam				

October	<p>Unit-6 Gravitation Chapter-8: Gravitation Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite, Geo-stationary satellites.</p> <p>Unit-7 Properties of Bulk Matter Chapter-9: Mechanical Properties of Solids Elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus,</p>	<ol style="list-style-type: none"> Lecture Method using Online White Board PDF file To find the weight of a given body using parallelogram law of vectors. 	Develop conceptual competence in the learners and make them realize and appreciate the interface of Physics with other disciplines.	
November	<p>bulk modulus, shear modulus of rigidity, Poisson's ratio; elastic energy.</p> <p>Chapter-10: Mechanical Properties of Fluids . Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its applications. Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise.</p> <p>Chapter-11: Thermal Properties of Matter. Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; Cp, Cv - calorimetry; change of state - latent heat capacity.</p>	<ol style="list-style-type: none"> Lecture Method using Online White Board Animation Video To study the relationship between force of limiting friction and normal reaction and to find the co-efficient of friction between a block and a horizontal surface. Using a simple pendulum, plot its L-T² graph and use it to find the effective length of second's pendulum. 	Promotion of process skills, problem-solving abilities and applications of Physics concepts.	
December	<p>Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law, Greenhouse effect.</p> <p>Unit-8 Thermodynamics Chapter-12: Thermodynamics Thermal equilibrium and definition of temperature (zeroth law of thermodynamics), heat, work and internal energy. First law of</p>	<ol style="list-style-type: none"> Lecture Method using Online White Board Animation Video To determine Young's modulus of elasticity of the material of a given wire. To 	Develop process-skills and experimental, observational, manipulative, decision making and investigatory skills in the learners. Promote problem solving abilities and creative thinking in learners.	

	<p>thermodynamics, isothermal and adiabatic processes. Second law of thermodynamics: reversible and irreversible processes, Heat engine and refrigerator.</p> <p>Unit -9 Behavior of perfect Gases & Kinetic Theory of Gases</p> <p>Chapter–13: Kinetic Theory</p> <p>Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; RMS speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number..</p>	<p>determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.</p>		
January	<p>Unit-10 Oscillations and Waves</p> <p>Chapter–14: Oscillations</p> <p>Periodic motion - time period, frequency, displacement as a function of time, periodic functions. Simple harmonic motion (S.H.M) and its equation; phase; oscillations of a loaded spring- restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period. Free, forced and damped oscillations (qualitative ideas only), resonance.</p> <p>Chapter–15: Waves</p> <p>Wave motion: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats, Doppler effect.</p> <p>REVISION</p>	<ol style="list-style-type: none"> 1. Lecture Method using Online White Board 2. PPT slide 3. To determine specific heat capacity of a given solid by method of mixtures. 4. To study the relation between frequency and length of a given wire under constant tension using sonometer. 	<p>Providing logical sequencing of units of the subject matter and proper placement of concepts with their linkage for better learning. Reducing the curriculum load by eliminating overlapping of concepts/content within the discipline and other disciplines.</p>	
February	<p>REVISION</p> <p>Practical Exam</p> <p>Annual Exam</p>	<p>Online Tests, Revision Worksheets, Practice of NCERT questions and NCERT Exemplar Problems and Previous Year Question Papers</p>		