

XI JEE LIVE WEEKDAY SCHEDULE

WEEK NO.	WEEK DURATION	Class No.	Chapter Name	Class Title	Sub Topic	Chapter Name	Class Title	Sub Topic	Chapter Name	Class Title	Sub Topic
W1	09-07-24 To 14-07-24	1	Vectors & Basic Mathematics	Vectors	Vector and its types, Addition and subtraction of vectors, Resolution of vectors & its application, DOT products and its application, Cross products and its application, Practice on questions of vector	Some Basic concept in Chemistry	Mole Concept	Mole concept: Calculation based on mole concept, concept of gram atom, gram molecule, Empirical Formula and Molecular Formula, Relevant numericals of Empirical Formula	Sets Relations and Functions	Introduction of Sets & Inequalities	Introduction, Sets, Representation of sets, Kinds of Sets, Analysis of two sets Equal sets, Equivalent sets, Subsets, Intervals as subset of R. Power sets, Universe set, Venn diagram, Operation on sets Union of sets, intersection of sets, disjoint sets, difference two sets, Complement of a set, Algebra on sets, Practical problems on union and intersection of two sets, Cartesian products of sets, Relations and function
		2	Vectors & Basic Mathematics	Differentiation & Integration	Basic Mathematics: Differentiation, Application of Derivatives, integration	Some Basic concept in Chemistry	Concentration Terms	Percentage by mass (w/w), percentage by volume (v/v), ppm, mole fraction, Molarity, Molality and their interconversion	Sets Relations and Functions	Practical problems of sets & Inequalities	Practical problems on union and intersection of two sets Cartesian products of sets, Relations and function, Linear Inequalities & Wavy Curve Method, determinant Logarithmic function and their properties, Modulus function and their properties
		3	Units and Measurement	Units and Measurement	Units & Dimension, dimensional analysis, Error analysis, significant figures	Some Basic concept in Chemistry	Stoichiometry	Stoichiometry and concept of Limiting Reagent	Sequence and Series	Sequence and Series	Introduction of Sequence and Series, nth term of AP, Properties of A.P., Sum of n term of an AP, Arithmetic Mean, nth term of G.P., sum of n term of GP, Properties of G.P., Geometric mean, A.G.P, Introduction to HP, HM, Relation between AM, GM and HM
15/07/2024		TEST	Class No. 1 to 2 (100%)								
W2	16-07-24 To 21-07-24	4	kinematics	Terms related to Kinematics-I	Motion parameters Distance, Displacement	Some Basic concept in Chemistry	Redox Reactions, equivalent weight & n-factor	Oxidation number, Calculation of oxidation number by bonding method, Oxidation and Reduction, Oxidizing & Reducing agents, Redox reaction, disproportionation reaction, Balancing of redox reactions, n-factor and Equivalent weight of acid, base and salts,	Trigonometric Equations	Maximum and minimum value of trigonometric expressions	Maximum and minimum value of trigonometric expressions, analysis of the form $y=asinx+bcosx$, conditional identities, sum of Trigonometric series.
		5	kinematics	Terms related to Kinematics -II	speed, velocity, average velocity, acceleration	Some Basic concept in Chemistry	equivalent concept and Normality	equivalent concept and Normality	Trigonometric Equations	Solution of trigonometric function	Types of trigonometric equation, Principal value, General solution of basic trigonometric equation.
		6	kinematics	1D motion in uniform acceleration	Uniform Accelerated Motion (Motion in 1-d)	Some Basic concept in Chemistry	Titration	calculation based on weight-weight relation, weight-volume relation, volume-volume relation (Excluding redox and double titration)	Trigonometric Equations	Solution of the form $acos x + bsin x = c$	Solution by reducing trigonometric equations to algebraic one's, solution of the form $acos x + bsin x = c$
W3	23-07-24 To 28-07-24	4	kinematics	Motion Under Gravity	Motion under gravity,	Atomic Structure	subatomic particles & Planck theory	Basic discovery of subatomic particles, Principle of quantization (Planck theory),	Trigonometric Equations	Trigonometric Inequalities	Problems involving more than one equation, equation containing more than one variable, Equation containing different functions and variables, Trigonometric Inequalities.
		5	kinematics	Graphs & Introduction of Motion in Plane	Motion under variable acceleration, Motion in a plane,	Atomic Structure	Photoelectric effect	Black body radiation, Photoelectric effect,	Quadratic Equations	Nature of roots of quadratic equations	Introduction, nature of roots of quadratic equations $ax^2 + bx + c = 0$,
		6	kinematics	Projectile Motion -I	Projectile motion, Oblique projectile motion	Atomic Structure	Bohr atomic model & mathematical derivations	Bohr theory with mathematical derivations	Quadratic Equations	Common roots of quadratic equations	Relation between roots of an equation, Transformation of equation, Condition for common roots of quadratic equations.
29/07/2024		TEST	W1 (100%)								
W4	30-07-24 To 04-08-24	10	kinematics	Projectile Motion -II	Horizontal Projectile Motion, Projectile motion in inclined plane	Atomic Structure	spectrum & question on Bohr theory	Basic question on Bohr theory,	Quadratic Equations	maximum and minimum value of quadratic equations	Quadratic expression $y = ax^2 + bx + c$, sign of quadratic expression, maximum and minimum value of quadratic equations
		11	kinematics	Relative Motion in 2D -I	Relative Velocity, Closest distance of approach	Atomic Structure	spectrum and Hydrogen spectrum	(iii) Hydrogen spectrum	Quadratic Equations	Location of roots	Location of roots, Descartes rule of signs,
		12	kinematics	Relative Motion in 2D - II	River- swimmer problems, rain man problems	Atomic Structure	Dual Behaviour of matter	(i) Dual Behaviour of matter, (ii) de-broglie equation, (iii) Heisenberg's Uncertainty Principle	Quadratic Equations	Theory of Equations	Quadratic expression in two variables, Theory of Equations
W5	06-08-24 To 11-08-24	13	kinematics	Kinematics of Circular Motion	Kinematics of Circular Motion in a plane	Atomic Structure	orbitals and Aufbau principle	Quantum numbers, (iv) Shape of orbitals, (v) Aufbau principle, (vi) Electronic configuration,	Binomial theorem	Introduction of Binomial theorem	Introduction Notation of factorial and definition of $C(n, r)$ and $P(n, r)$ Pascal triangle, Binomial theorem for a positive integer index,
		14	Laws of Motion	Introduction of NLM	Newton's Laws of Motion	Atomic Structure	Quantum numbers, Pauli and Hund's	Pauli's exclusion principle, Hund's rule	Binomial theorem	Special forms of binomial theorem	Some special forms of binomial theorem.

		15	Laws of Motion	Equilibrium of Particles	Equilibrium of Particles	Atomic Structure	wave mechanical model of atom	Introduction of wave mechanical model of atom (ψ, ψ^2) and different graphs	Binomial theorem	General term and middle term in expansion	Problem based on direct expansion, General term in the expansion of $(a+x)^n$, middle term in the expansion of $(a+x)^n$
	12-08-2024	TEST	W2 (40%), W3 (40%), W1 (20%)								
	FESTIVAL HOILDAY		15/08/2024	INDEPEDENCE DAY (Thursday)							
W6	13-08-24 To 18-08-24	16	Laws of Motion	Constraint Motion	Pulley mass system, Constraint relations	Periodic Properties	periodic law	Modern periodic law and prediction of periodic table, IUPAC naming of element ($Z > 100$), Location of element by using atomic number and vice versa	Binomial theorem	Properties of Binomial coefficients	BINOMIAL THEOREM Greatest binomial coefficient, numerically greatest term in the binomial expansion, properties of Binomial coefficients ,
		17	Laws of Motion	Pseudo force	Pseudo force	Periodic properties	Periodic properties	Periodic properties: atomic and ionic size including screening effect	Binomial theorem	Binomial Series	Binomial series.
		18	Friction	Introduction to Friction	Introduction to Friction, Friction force in simple cases, angle of repose, angle of friction	Periodic Properties	Periodic properties trends and Anomalous behaviour	ionization enthalpy, electron affinity and electron gain enthalpy. Anomalous behaviour of 2nd period elements	Straight Line	Basic Coordinate Geometry	Straight Line Introduction, distance formula, section formula, area of triangle.
W7	20-08-24 To 25-08-24	19	Friction	Multiple block system with friction	Multiple block system with friction	Chemical bonding and molecular structure	Chemical bond and type of Chemical bond	Types of bond ionic, covalent and coordinate covalent,	Straight Line	slope of line & various forms of line	Definitions of centroid, circumcentre and orthocentre of triangle Collinearity of three points, slope of line, various forms of line,
		20	Friction	Dynamics of circular motion -I	Dynamics of circular motion -I	Chemical bonding and molecular structure	properties of ionic compounds, Fajans Rule	properties of ionic compounds, Fajans Rule	Straight Line	Angle between two lines	Position of two points relative to a line, Angle between two lines, condition for two lines to be parallel and perpendicular,
		21	Friction	Dynamics of circular motion -II	Questions on Dynamics of circular motion	Chemical bonding and molecular structure	VBT and Hybridization	VBT (including types of overlapping sigma and pi bonds),	Straight Line	locus of a point	locus of a point.
	26/08/2024	TEST	W5 (40%), W4 (40%), W1 TO W3 (20%)								
	FESTIVAL HOILDAY		19/08/2024	RAKSHABANDHAN (MONDAY)							
W8	27-08-24 To 01-09-24	22	Work, energy and power		Work done by constant and variable force Work energy theorem, Conservation of mechanical energy	Chemical bonding and molecular structure		Hybridisation	Straight Line		Perpendicular distance of a point from a line, distance between two parallel lines, foot of perpendicular, Image of point w.r.t a line.
		23	Work, energy and power		Motion in a vertical circle	Chemical bonding and molecular structure		VSEPR Theory, Dipole moment	Straight Line		Condition of concurrency for three lines, Family of lines , Equation of bisectors
	02-09-2024	TEST	W7 & W6 (40%), W5 & W4 (40%), W1 TO W3 (20%)								
W9	03-09-24 To 08-09-24	24	System of Particles and Rotational	Centre of Mass	Location of centre of mass Motion of centre of mass	Chemical bonding and molecular structure	Molecular orbital theory	Molecular orbital theory, shape of molecular orbitals,	Straight Line	Homogeneous Equation	Transformation of axes , General equation second degree, homogeneous equation of second degree
		25	System of Particles and Rotational	Linear momentum, Impulse	Linear momentum, Impulse	Chemical bonding and molecular structure	bond order	bond order of diatomic molecules, calculation of bond order from resonance	Straight Line	Angle between lines	Angle between lines, nature of pair of lines,
		26	System of Particles and Rotational	Conservation of linear momentum	Conservation of linear momentum	Chemical bonding and molecular structure	hydrogen bonding	hydrogen bonding	Straight Line	homogenous concept	homogenous concept.
	FESTIVAL HOILDAY			09-07-2024	Ganesh Chaturthi (Saturday)						
				Back log syllabus coverage							
	16/09/2024	TEST	W9 (40%), W8 (40%), W1 to 7 (20%)								
W10	17-09-24 To 22-09-24	27	System of Particles and Rotational	Collision in 1D	Collision in one Dimension,	State of Matter	Measurable Properties	Introduce volume, pressure and temperature their various units and relation among them,	Circles	Different form of a circle	Circles Definition of circle, different form of a circle, general equation, Diameter for, parametric form,
		28	System of Particles and Rotational	Collision in 2D	Collision in two Dimension	State of Matter	Gaseous state & Gaseous Laws	Intermolecular force and thermal energy, Gaseous state, Gas laws: Boyle's law, Charles's law	Circles	Position of a point w.r.t circle	equation of circle passing through non-collinear points. Position of a point w.r.t circle,
		29	System of Particles and Rotational	Rotational kinematics	Rotational kinematics	State of Matter	Gaseous Laws & ideal gas equation	Gay Lussac's law, Avogadro's law, ideal gas equation, Dalton's law of partial pressure	Circles	circle touching coordinate axes	length of intercept on coordinate axes condition for circle touching coordinate axes.
W11	24-09-24 To 29-09-24	30	System of Particles and Rotational	Moment of Inertia	Moment of Inertia of different Bodies	State of Matter	Kinetic theory of gases	diffusion of gases, Kinetic theory of gases, distribution of molecular speeds,	Circles	length of intercept on coordinate axes	length of intercept on a line condition for tangency to circle ,
		31	System of Particles and Rotational	Parallel & Perpendicular axis theorem - I	Parallel and perpendicular axis theorem	State of Matter	Compressibility factor	ideal and non-ideal gases & Compressibility factor	Circles	Equation of tangent to a circle	Equation of tangent to a circle. Length of tangent from an external point,
		32	System of Particles and Rotational	Parallel & Perpendicular axis theorem - II	applications of Parallel and Perpendicular axis theorem	State of Matter	Real gas equation	van der Waal equation, liquification of gases	Circles	Director circle	director circle .
	30/09/2024	TEST	W4 TO W9 (80%), W1 TO W3 (20%)								

	FESTIVAL HOILDAY				10-02-2024	GANDHI JAYANTI (Wednesday)						
W12	01-10-24 To 06-10-24	33	System of Particles and Rotational	Dynamics of Rigid body -I	Torque, Dynamics of rigid body	Thermodynamics	Basic Terms of Thermodynamic	Introduction to Basic Terms : (i) Types of system, (ii) State of a System, (iii) State function, (iv) State variable, (v) path function, (vi) Extensive intensive property,	Circles	Equation of chord	Equation of chord with a given mid-point,	
		34	System of Particles and Rotational	Dynamics of Rigid body -II	Dynamics of rigid body	Thermodynamic	Thermodynamic process	(vii) Thermodynamic process, internal Energy as a state function, Pressure volume work,	Circles	Family of circles	Equation of chord of contact, equation of pair of tangents. Family of circles,	
		35	System of Particles and Rotational	Problem practice on Rotational Dynamics	Questions on rotational dynamics	Thermodynamics	First law of thermodynamic and Enthalpy	First law of thermodynamics with Enthalpy	Circles	Common tangents	Radical axis, common tangents, angle between two circles, Locus Problems.	
	FESTIVAL HOILDAY				10-10-2024	(THURSDAY) ASHTAMI						
	FESTIVAL HOILDAY				10-11-2024	(FRIDAY) MAHANAVMI						
	FESTIVAL HOILDAY				10-12-2024	(SATURDAY) DUSSHERA						
W13	08-10-24 To 13-10-24	36	System of Particles and Rotational	Angular momentum	Angular momentum	Thermodynamics	Heat capacity,	(i) Heat capacity, (iii) Relation between Cp and Cv for an ideal gas, (iii) Isothermal reversible process, (iv) Reversible adiabatic process.	Complex number	Introduction of complex number & Argand plane	Complex numbers Definition of a complex number, Argand plane, Algebra of complex number,	
		37	System of Particles and Rotational	Angular Momentum conservation -I	Angular Momentum conservation	Thermodynamics	Different type OF Enthalpy	Enthalpy: (i) Measurement of DU and DH, (ii) Enthalpy change of a reaction, (iii) Standard enthalpy of formation (DH°f)	Complex number	Modulus of a complex number	Modulus of a complex number, properties of modulus, triangle inequality, Properties of arguments,	
		38	System of Particles and Rotational	Angular Momentum conservation -II	Problem Practice on Angular Momentum conservation	Thermodynamics	Hess's law	(iv) Enthalpy change for different type of reaction. Hess's law	Complex number	De moivre's theorem	Conjugate of a complex number, different forms of a complex number, De moivre's theorem.	
14/10/2024	TEST	W10 & W11 (40%), W12 (40%), W1 TO W9 (20%)										
W14	15-10-24 To 20-10-24	39	System of Particles and Rotational	Rolling Motion -I	Rolling motion(Velocity, acceleration in case of rolling motion)	Thermodynamics	Second law of thermodynamics and Entropy	(i) Second law of thermodynamics, (ii) Spontaneity and Enthalpy change, (iii) Introduction to Entropy, (iv) Entropy change in various process	Complex number	Square root of a complex number	Logarithm of a complex number, Square root of a complex number,	
		40	System of Particles and Rotational	Rolling Motion -II	Dynamics of Rolling Motion,	Thermodynamics	Gibbs free energy and spontaneity	(i) Numericals based on entropy (ii) Gibbs free energy change and spontaneity: (i) Calculation of Gibbs energy for a reaction.	Complex number	Cube roots of unity	cube roots of unity.	
		41	System of Particles and Rotational	Collision of particles with rigid body	Collision of particles with rigid body	Thermodynamics	Third law of thermodynamics	(ii) Thermodynamics of equilibrium state, (ii) Third law of thermodynamics	Complex number	nth roots of unity	nth roots of unity and their properties.	
W15	22-10-24 To 27-10-24	42	System of Particles and Rotational	Problems of Rotational Motion	Discussion on Instantaneous axis of rotation and related problems.	Equilibrium	Chemical Laws of mass action and characteristics of equilibrium	Chemical equilibrium: Reversible reactions, equilibrium constant, properties of equilibrium constant, relation between Kp and Kc	Complex number	Geometry of complex numbers	Geometry of complex numbers, section formulae, condition, for quadrilateral,	
		43	System of Particles and Rotational	Problems of Rotational Motion	Material problems discussion	Equilibrium	Le Chatelier's Principle	Reaction Quotient, Le Chatelier's Principle	Complex number	Rotation of complex number	Rotation of complex number.	
		44	Gravitation	Law of Gravitation	Law of gravitation, Gravitational field	Equilibrium	Simultaneous Equilibrium,	Chemical equilibrium: Simultaneous Equilibrium,	Complex number	Important loci in Argand plane	Straight line in Argand plane, circle, Important loci in Argand plane.	
28/10/2024	TEST	W13 (40%), W14 (40%), W1 TO W12 (20%)										
W16	29-10-24 To 03-11-24	45	Gravitation	Acceleration due to gravity	Acceleration due to gravity and	Equilibrium	Electrolytes , Acids - bases theory	Ionic equilibrium in solution : (i) Acids, bases and salts, (ii) Acids and bases- Arrhenius concept, Bronsted and Lowry concept and Lewis concept.	Permutation and Combination	Fundamental principle of counting	Permutation and Combination Fundamental principle of counting, multiplication principle, addition rule,	
		46	Gravitation	Variation of g	variation of acceleration due to gravity with height , depth and rotation of earth	Equilibrium	Ionization of water (Kw) and pH-scale	Ionization of water (Kw) . pH-scale, pH of strong acid and base.	Permutation and Combination	Permutation of different and identical things	Permutation of different and identical things	
		47	Gravitation	Gravitational Potential & Potential Energy	Gravitational Potential & Potential Energy	Equilibrium	pH- calculation for different type of solution	pH of weak acid and base, dissociation of weak poly-protic acid,	Permutation and Combination	Rank of a word, circular permutation	Rank of a word, circular permutation and their applications	
	FESTIVAL HOILDAY				30-10-2024	(WEDNESDAY) CHHOTIDIWALI						
	FESTIVAL HOILDAY				31/10/2024	(THURSDAY) DIWALI						
	FESTIVAL HOILDAY				01-11-2024	(FRIDAY) GOVARDHANPOOJA						
	FESTIVAL HOILDAY				02-11-2024	(SATURDAY) BHAI DOOJ						
W17	05-11-24 To 10-11-24	48	Gravitation	Escape velocity & Kepler's laws	Escape velocity & Kepler's laws	Equilibrium	Salt and Salt hydrolysis	Salt hydrolysis and pH as a salt solution	Permutation and Combination	Difference between a permutation and Combination	Combinations, Difference between a permutation, combination of different type of objects	
		49	Gravitation	Geostationary satellites	Geostationary satellites	Equilibrium	buffer solution	buffer solution	Permutation and Combination	Divisors	Divisors	
		50	Mechanical properties of Fluids	Hydrostatic pressure, Pascal's law	Hydrostatic pressure, Pascal's law	Equilibrium	buffer capacity	buffer capacity	Permutation and Combination	Sum of the numbers formed by n digits	Sum of the numbers formed by n digits. Exponent of a prime number in a factorial.	
11/11/2024	TEST	W10 TO W14 (80%), W1 TO W9 (20%)										

	FESTIVAL HOLIDAY				07/11/2024	CHAT POOJA						
W18	12-11-24 To 17-11-24	51	Mechanical properties of Fluids	Archimedes' principle	Archimedes' principle	Equilibrium	solubility and solubility product, indicator	solubility and solubility product, Indicators and pH-metric titration,	Permutation and Combination	Division and distribution into groups	Division and distribution into groups.	
		52	Mechanical properties of Fluids	Equation of continuity, Bernoulli's principle	Equation of continuity, Bernoulli's principle	Equilibrium	Redox titration and double titration	Redox reaction, redox titration, double titration,	Permutation and Combination	Application of multinomial expansion	Number of integral solution of an equation, Application of multinomial expansion.	
		53	Mechanical properties of Fluids	Velocity of Efflux	Velocity of Efflux and Question related to it.	Organic Chemistry : Some Basic Principle and Techniques	Basic principle of Organic chemistry	Classification of organic compounds; Rules of IUPAC nomenclature for aliphatic & aromatic compound and functional group	Permutation and Combination	Principle of inclusion & exclusion, derangement	Principle of inclusion & exclusion, derangement.	
W19	19-11-24 To 24-11-24	54	Mechanical properties of Fluids	Application of Bernoulli's theorem	Application of Bernoulli's theorem	Organic Chemistry : Some Basic Principle and Techniques	Electronic displacement concept	Electronic effects: Inductive effect, Electromeric effect,	Conic Section- II	Introduction of Parabola	PARABOLA Standard equation of parabola,	
		55	Mechanical properties of Fluids	Questions related to Bernoulli's theorem	Question on Application of Bernoulli's theorem	Organic Chemistry : Some Basic Principle and Techniques	delocalization of Pi electron and conjugation system	Resonance, Mesomeric effect	Conic Section- II	Parametric equation of parabola	parametric equation, position of a point w.r.t parabola	
		56	Mechanical properties of Fluids	Surface Tension	Surface Tension	Organic Chemistry : Some Basic Principle and Techniques	Hyperconjugation	Hyperconjugation	Conic Section- II	Important points related of focal chord	PARABOLA focal distance, focal chord, important points related of focal chord	
25/11/2024	TEST	W15 & W16 (40%), W17 & W18 (40%), W1 TO W14 (20%)										
W20	26-11-24 To 01-12-24	57	Mechanical properties of Fluids	Excess of pressure,	Excess of pressure,	Organic Chemistry : Some Basic Principle and Techniques	Acidic - basic strength of organic molecule	acidic and basic order of organic compound	Conic Section- II	Equation of tangent in different form	Equation of tangent in different form, condition of tangency, point of intersection of tangent	
		58	Mechanical properties of Fluids	capillary rise	capillary rise	Organic Chemistry : Some Basic Principle and Techniques	Aromaticity	Aromaticity	Conic Section- II	Equation of pair of tangents	Equation of pair of tangents chord of contact locus problem,	
		59	Mechanical properties of Fluids	Viscosity	Viscosity	Organic Chemistry : Some Basic Principle and Techniques	reaction intermediates	reaction intermediates: stability of carbocations, free radicals,	Conic Section- II	properties of parabola	properties of parabola	
W21	03-12-24 To 08-12-24	60	Mechanical properties of Solids	Stress & Strain	Elasticity, concept of stress-strain,	Organic Chemistry : Some Basic Principle and Techniques	stability of reaction intermediates	Stability of carbanion and carbene (excluding benzyne and nitrenes),	Conic Section- II	properties of co-normal points	Normal, co-normal points, properties of co-normal points,	
		61	Mechanical properties of Solids	modulus of elasticity	different types of modulus of elasticity	Organic Chemistry : Some Basic Principle and Techniques	conformational isomer	conformation in alkane	Conic Section- II	important points related to parabola	important points related to parabola.	
		62	Mechanical properties of Solids	Elastic Potential Energy	Elastic potential energy of a strained body, Stress-strain in other cases	Organic Chemistry : Some Basic Principle and Techniques	Isomerism: Structural	Isomerism: Structural- chain isomerism, positional isomerism, ring chain isomerism, functional isomerism, metamerism	Conic Section- II	Equation of chord	Equation of chord having mid-point (x1, y1) equation of pair of tangents.	
09/12/2024	TEST	W20 (40%), W19 (40%), W1 TO W18 (20%)										
W22	10-12-24 To 15-12-24	63	Thermal Properties of Matter	Thermal Expansion	Thermal Expansion	Organic Chemistry : Some Basic Principle and Techniques	tautomerism	tautomerism,	Conic Section- II	Introduction of Ellipse	ELLIPSE Definition, basics of ellipse, eccentric angle, parametric equation, position of point	
		64	Thermal Properties of Matter	Calorimetry - I	Calorimetry	Organic Chemistry : Some Basic Principle and Techniques	Configuration isomer and geometrical isomerism	geometrical isomerism	Conic Section- II	Equation of tangent & normal	Condition for tangency, equation of tangent, normal, chord of contact, pair of tangents.	
		65	Thermal Properties of Matter	Calorimetry - II	question practice on Calorimetry	Organic Chemistry : Some Basic Principle and Techniques	Optical isomerism	Optical isomerism	Conic Section- II	Properties of ellipse	properties of ellipse, locus problems	
W23	17-12-24 To 22-12-24	66	Thermal Properties of Matter	Heat Transfer, Thermal conduction	Heat Transfer, Thermal conduction	Organic Chemistry : Some Basic Principle and Techniques	Configuration of Optically active compounds	R/S configuration and applications	Conic Section- II	Normal equation of chord	Normal equation of chord having mid-point (x1, y1), pair of tangents,	
		67	Thermal Properties of Matter	Thermal convection,	Thermal convection,	Organic Chemistry : Some Basic Principle and Techniques	analysis of elements in Organic compounds	POC (Qualitative analysis of organic compound)	Conic Section- II	Introduction of Hyperbola	conjugate diameters chord of contact, HYPERBOLA Definition, basics of hyperbola,	
		68	Thermal Properties of Matter	Radiation	Radiation	Organic Chemistry : Some Basic Principle and Techniques	analysis method and determine the quantity	POC (Quantitative analysis of organic compound)	Conic Section- II	Parametric equation of Hyperbola	eccentric angle, parametric equation, position of point	
23/12/2024	TEST	W15 TO W20 (80%), W1 TO W14 (20%)										
FESTIVAL HOLIDAY					25-12-2024	(WEDNESDAY) CHRISTMASDAY						
W24	24-12-24 To 29-12-24	69	Kinetic theory of gases	Assumptions of KTG, Derivation of pressure	Assumptions of KTG, Derivation of pressure	Hydrocarbons	Alkane	Alkane: preparation from alkene, alkyne, alkyl halides and carboxylic acids,	Conic Section- II	condition for tangency	Conjugate hyperbola, condition for tangency,	
		70	Kinetic theory of gases	Heat Capacities and specific heat capacities	Heat Capacities and specific heat capacities of solids and fluids	Hydrocarbons	substitution reaction in alkane and combustion	Reaction of alkanes: halogenation (excluding stereochemistry) combustion, controlled oxidation	Conic Section- II	Equation of tangent & Normal	equation of tangent, Normal, chord of contact, pair of tangents. Asymptotes, Rectangular hyperbola.	
		71	Kinetic theory of gases	Mean free path	Mean free path	Hydrocarbons	isomerisation, aromatization and pyrolysis in alkane	isomerisation, aromatization and pyrolysis.	Conic Section- II	Tangent and Normal of the Rectangular hyperbola	Parametric form, Tangent and Normal of the Rectangular hyperbola.	
FESTIVAL HOLIDAY					01-01-2025	(WEDNESDAY) NEW YEAR						
		72	Thermodynamics	First law of Thermodynamics	First law of Thermodynamics	Hydrocarbons	Alkene	Alkene: Preparation from alkyne, alkyl halides and alcohols,	Limits and Derivatives	Determinate and indeterminate form	LIMIT & DERIVATIVES(NCERT LEVEL):limit, determinate and indeterminate form,	

W25	31-12-24 To 05-01-25	73	Thermodynamics	Work done by gas	Work done by gas	Hydrocarbons	elimination reaction of alkene	Basic idea of α , β and γ -elimination	Limits and Derivatives	Evaluation of limit	evaluation of limit
		74	Thermodynamics	state and process Indicator diagram	state and process Indicator diagram	Hydrocarbons	saytzeff and hofmann's RULE	Basic idea of α , β and γ -elimination saytzeff and hofmann's product (excluding detailed mechanism of elimination reaction)	Limits and Derivatives	Important properties of limits	Important properties of limits, working rule for evaluation of limits of different Forms
06/01/2025		TEST		W21 & W22 (40%), W23 & W24 (40%), W1 TO W20 (20%)							
W26	07-01-25 To 12-01-25	75	Thermodynamics	Cyclic process, molar heat capacity	Cyclic process, molar heat capacity	Hydrocarbons	Electrophilic addition reaction in	Alkene: Electrophilic addition, addition of HX, H ₂ SO ₄ (dil and concentrated), water, oxidation, ozonolysis and polymerization	Limits and Derivatives	Introduction of Derivatives	Derivatives.
		76	Thermodynamics	second law of thermodynamics,	second law of thermodynamics,	Hydrocarbons	ozonolysis of alkene	oxidation, ozonolysis and polymerization	Limits and Derivatives	Derivative of standard functions	derivative of standard functions.
		77	Thermodynamics	Heat engine and refrigerator	Heat engine and refrigerator	Hydrocarbons	ozonolysis and polymerization in alkene	Alkene: water, oxidation, ozonolysis and polymerization	Limits and Derivatives	Basic rules of differentiation	Basic rules of differentiation,
FESTIVAL HOILDAY				15-01-2025		PONGAL					
W27	14-01-25 To 19-01-25	78	Oscillations	Kinematics of SHM,	Kinematic Equations of SHM, Variation of velocity and acceleration during SHM	Hydrocarbons	Alkynes	Alkynes	3 - D Geometry	Introduction of 3-D Geometry	INTRODUCTION OF 3D GEOMETRY(NCERT LEVEL) Introduction to 3-D geometry, octant, distance formula, section formula
		79	Oscillations	Dynamics of SHM,	Dynamics of SHM,	Hydrocarbons	AROMATIC (BENZENE)	Benzene (preparation & properties)	Statistics	Mean Deviation of Data	MEASURE OF DISPERSION Measure of dispersion, Mean deviation for ungrouped and grouped data, mean deviation about median, mean deviation about mean,
		80	Oscillations	Energy of SHM & Physical Pendulum	Energy of SHM, Physical Pendulum	Hydrocarbons	EAS in Benzene	EAS	Statistics	Variance & Standard Deviation	Variance and standard deviation standard deviation of discrete frequency distribution, Analysis of frequency distribution
20/01/2025		TEST		W25 (40%), W26 (40%), W1 TO W24 (20%)							
W28	21-01-25 To 26-01-25	81	Oscillations	Different cases of SHM	Different cases of SHM like simple Pendulum, Loaded spring etc	Hydrocarbons	EAS of derivative of benzene	EAS of derivative of benzene	Probability	Introduction of Probability	PROBABILITY(NCERT LEVEL) : Basic definition, Random experiment, Types of events exhaustive events, Mutually exclusive events
		82	Oscillations	Superposition of SHM	Superposition of SHM,	Hydrogen	HYDROGEN	Hydrogen: hydrogen preparation, properties of Dihydrogen, Hydrides, Heavy water Removal of hardness,	Probability	Addition rule of probability	addition rule of probability,
		83	Oscillations	Forced and Damped oscillation	Forced and Damped oscillation	Hydrogen	Hydrogen peroxide	Hydrogen peroxide: structure, preparation and properties of hydrogen peroxide	Probability	Miscellaneous problem based on P & C	Miscellaneous problem based on P & C
FESTIVAL HOILDAY				26-01-2025		(SUNDAY) REPULIC DAY					
W29	28-01-25 To 02-02-25	84	Waves	Equations and intensity of wave	Equation of wave,intensity of wave	S-block elements	II A GROUP ELEMENTS	Alkaline earth metals and comounds	Mathematical Reasoning	Introduction of Mathematical reasoning and mathematical statement	MATHEMATICAL REASONING Introduction, mathematical statement, New statement from old, negation of statement, compound statement, Special words/phrases AND or 'OR' implication, contra positive and converse
		85	Waves	Interference of waves	Interference of waves	S-block elements	II A GROUP ELEMENTS	Alkaline earth metals and comounds	Properties of Triangles	Introduction of Properties of triangles	PROPERTIES OF TRANGLES Height and Distance, Properties of triangle,
		86	Waves	Sound waves	Sound waves	S-block elements	II A GROUP ELEMENTS	Alkaline earth metals and comounds	Properties of Triangles	Sine rule and Cosine rule	sine rule and cosine rule.
03/02/2025		TEST		W21 TO W26 (80%), W1 TO W20 (20%)							
W30	04-02-25 To 09-02-25	87	Waves	Stationary waves	Stationary waves(string tied at both the ends,open and closed organ pipe,	p-block elements	BORON FAMILY	p-block: 13th group elements	Properties of Triangles	Napier's analogy	Napier's analogy, projection formulae,
		88	Waves	sonometer, resonance tube,beat	sonometer,resonance tube,beat	p-block elements	BORON FAMILY and CARBON FAMILY	p-block: 13th group elements and p-block: 14th group elements	Properties of Triangles	Area of triangle in different form	Area of triangle in different form. Half angle formula,
		89	Waves	Doppler Effect	Doppler Effect	p-block elements	CARBON FAMILY	p-block: 14th group elements	Properties of Triangles	Various points related to triangles	Circumcentre,incentre, Ortho centre, Centroid,Esccribed circle, Regular polygon
17/02/2025		TEST		COMPLETE XI SYLLABUS ONLY							