

## Ai<sup>2</sup>TS Syllabus

Class IX	Chemistry		Mathematics		Physics	
Ai <sup>2</sup> TS-1(IX) 12-Sep-22	100%	Matter in Our Surrounding, Properties of Matter	100%	Lines and Angles Linear Equations in Two Variables Number System, Indices, Surds Coordinate Geometry	100%	Motion
Ai <sup>2</sup> TS-2(IX) 14-Nov-22	30%	Ai <sup>2</sup> TS-1 Syllabus	30%	Ai <sup>2</sup> TS-1 Syllabus	30%	Ai <sup>2</sup> TS-1 Syllabus
	70%	Is matter around as pure?	70%	Logarithms Triangles Heron's Formula Statistics	70%	Gravitation Laws of Motion
Ai <sup>2</sup> TS-3(IX) 09-Jan-23	40%	Ai <sup>2</sup> TS-1 & Ai <sup>2</sup> TS-2 Syllabus	40%	Ai <sup>2</sup> TS-1 & Ai <sup>2</sup> TS -2 Syllabus	40%	Ai <sup>2</sup> TS -1 & Ai <sup>2</sup> TS -2 Syllabus
	60%	Atoms, Molecules & Mole Concept	60%	Polynomials Quadrilateral Probability Surface Area and Volume	60%	Fluid Work, Power energy
Ai <sup>2</sup> TS-4(IX) 27-Mar-23	100%	Ai <sup>2</sup> TS-1, Ai <sup>2</sup> TS-2 & Ai <sup>2</sup> TS-3 Syllabus	100%	Ai <sup>2</sup> TS-1, Ai <sup>2</sup> TS-2 & Ai <sup>2</sup> TS-3 Syllabus	100%	Ai <sup>2</sup> TS -1, Ai <sup>2</sup> TS -2 & Ai <sup>2</sup> TS -3 Syllabus
		Atomic structure		Euclid Geometry Circles Constructions Areas of Parallelogram and Triangles		Sound

Class X	Chemistry		Mathematics		Physics	
Ai <sup>2</sup> TS-1(X) 22-Aug-22	100%	Acid, Base & Salts Chemical Reactions	100%	Linear Equations in Two Variables Polynomials Real Numbers Coordinate Geometry	100%	Electricity and its Heating and Chemical Effects
Ai <sup>2</sup> TS-2(X) 21-Nov-22	30%	Ai <sup>2</sup> TS-1 Syllabus	30%	Ai <sup>2</sup> TS-1 Syllabus	30%	Ai <sup>2</sup> TS-1 Syllabus
	70%	Metals and Non-Metals	70%	Similar Triangles Trigonometry Area Related to Circle Probability Logarithms	70%	Magnetic Effect of Electric Current Source of Energy
Ai <sup>2</sup> TS-3(X) 30-Jan-23	40%	Ai <sup>2</sup> TS-1 & Ai <sup>2</sup> TS-2 Syllabus	40%	Ai <sup>2</sup> TS-1 & Ai <sup>2</sup> TS -2 Syllabus	40%	Ai <sup>2</sup> TS -1 & Ai <sup>2</sup> TS -2 Syllabus
	60%	Carbon & Its Compounds	60%	Quadratic Equations Arithmetic Progressions Constructions Tangents to a Circle	60%	Light
Ai <sup>2</sup> TS-4(X) 27-Mar-23	100%	Ai <sup>2</sup> TS-1, Ai <sup>2</sup> TS-2 & Ai <sup>2</sup> TS-3 Syllabus	100%	Ai <sup>2</sup> TS-1, Ai <sup>2</sup> TS-2 & Ai <sup>2</sup> TS-3 Syllabus	100%	Ai <sup>2</sup> TS -1, Ai <sup>2</sup> TS -2 & Ai <sup>2</sup> TS -3 Syllabus
		Periodic Classification		Application of Trigonometry Statistics Surface Area and Volume		The Human Eye & The Colourful World

Class XI	Chemistry		Mathematics		Physics	
Ai <sup>2</sup> TS-1(XI) 12-Sep-22	100%	Mole Concept, Balancing of redox reactions & Stoichiometry Gaseous State Atomic Structure Periodic Properties	100%	Straight Line Trigonometry Trigonometry Ratios & Identities	100%	Units & Dimensions Vectors Kinematics
Ai <sup>2</sup> TS-2(XI) 21-Nov-22	30%	Ai <sup>2</sup> TS-1 Syllabus	30%	Ai <sup>2</sup> TS-1 Syllabus	30%	Ai <sup>2</sup> TS-1 Syllabus
	70%	Chemical Bonding Group 1 & Group 2 Hydrogen & Its Compounds Chemical Equilibrium Chemical Kinetics	70%	Circles Parabola	70%	Laws Of Motion Work Power & Energy Conservation Of Momentum
Ai <sup>2</sup> TS-3(XI) 13-Feb-23	40%	Ai <sup>2</sup> TS-1 & Ai <sup>2</sup> TS-2 Syllabus	40%	Ai <sup>2</sup> TS-1 & Ai <sup>2</sup> TS -2 Syllabus	40%	Ai <sup>2</sup> TS -1 & Ai <sup>2</sup> TS -2 Syllabus
	60%	Ionic Equilibrium Thermochemistry & Thermodynamics Group 13 & Group 14	60%	Ellipse Hyperbola Quadratic Equations & Expressions	60%	Rotational Motion Gravitation Fluids
Ai <sup>2</sup> TS-4(XI) 27-Mar-23	60%	Ai <sup>2</sup> TS-1, Ai <sup>2</sup> TS-2 & Ai <sup>2</sup> TS-3 Syllabus	60%	Ai <sup>2</sup> TS-1, Ai <sup>2</sup> TS-2 & Ai <sup>2</sup> TS-3 Syllabus	60%	Ai <sup>2</sup> TS -1, Ai <sup>2</sup> TS -2 & Ai <sup>2</sup> TS -3 Syllabus
		General Organic Chemistry Isomerism Electrophilic Aromatic Substitution Hydrocarbons		Binomial Theorem Permutation & Combination Progression and Series Solution Of Triangle Trigonometric Equations Complex Numbers		Simple Harmonic Motion Waves & Sound Heat & Thermodynamics

# Ai<sup>2</sup>TS Syllabus

Class XII	Chemistry	Mathematics	Physics
Ai <sup>2</sup> TS-1(XII) 19-Sep-22	40% Questions from Class XI <sup>th</sup> topics - Stoichiometry, Gaseous State, Atomic Structure, Periodic Properties, Chemical Bonding, s Block & Hydrogen, Chemical Kinetics.	40% Questions from Class XI <sup>th</sup> topics - Straight Lines, Circle, Conic Section, Parabola, Ellipse, Hyperbola, Permutation & Combination, Binomial Theorem	40% Questions from Class XI <sup>th</sup> topics - Vectors, Kinematics, Newton's Laws of Motion, Work, Power & Energy, Gravitation, SHM & Elasticity
	60% Questions from Class XII <sup>th</sup> topics - Alky & Aryl Halides, Alcohol, Ether & Phenol, Aldehyde & Ketone, Carboxylic Acids & Derivatives, Amines, Carbohydrate, Amino Acids, Polymers & POC.	60% Questions from Class XII <sup>th</sup> topics - Functions, Limits Continuity & Differentiability, Application of Derivatives, Indefinite Integrals, Definite Integrals, Area, Differential Equations	60% Questions from Class XII <sup>th</sup> topics - Electrostatics, Current Electricity, Magnetism.
Ai <sup>2</sup> TS-2(XII) 21-Nov-22	30% Questions from class XI <sup>th</sup> topics - Thermochemistry & Thermodynamics, Chemical Equilibrium, Ionic Equilibrium, Boron & Carbon Family, Solid State, GOC & Isomerism, EAS, Hydrocarbons	30% Questions from class XI <sup>th</sup> topics - Quadratic Equations & Expressions, Logarithms, Complex Numbers, Progression & Series, Trigonometric Ratios and Identities, Solution of Triangle, Trigonometric Equations, Inverse Trigonometric Function	30% Questions from class XI <sup>th</sup> topics - Conservation of Momentum, Rotation & Motion, Fluid, Waves & Sound and Heat & Thermodynamics
	20% Questions on Ai <sup>2</sup> TS-1 topics (Class XII topics Only)	20% Questions on Ai <sup>2</sup> TS-1 topics (Class XII topics Only)	20% Questions on Ai <sup>2</sup> TS-1 topics (Class XII topics Only)
	50% Questions from Class XII <sup>th</sup> topics - Qualitative Analysis, Solid State, Surface chemistry, Liquid Solution, Electrochemistry, Transition Elements & Coordination Compounds, Gr 15-18 Groups, Ores & Metallurgy	50% Questions from Class XII <sup>th</sup> topics - Probability, Determinants, Matrices & Vector, 3-D Geometry	50% Questions from Class XII <sup>th</sup> topics - Electromagnetic Induction, Geometrical Optics & Wave Optics, Modern Physics
Ai <sup>2</sup> TS-3(XII) 19-Dec-22	100% Stoichiometry, Gaseous State, Atomic Structure, Periodic Properties, Chemical Bonding, s-Block & Hydrogen, Chemical Kinetics, Thermochemistry & Thermodynamics, Chemical Equilibrium, Ionic Equilibrium, Boron & Carbon Family, GOC & Isomerism, EAS, Hydrocarbons	100% Set, Relations & Function, Function, Limits, Continuity & Differentiability, Application of Derivatives, Indefinite Integrals, Definite Integrals, Area, Differential Equations, Straight Lines, Circle, Parabola, Ellipse, Hyperbola	100% Vector, Kinematics, Laws of Motion, Work, Energy & Power, Conservation of Momentum, Rotational Motion, Electrostatics, Current Electricity
Ai <sup>2</sup> TS-4(XII) 09-Jan-23	100% Alkyl & Aryl Halides, Alcohol, Ether & Phenol, Aldehyde & Ketone, Carboxylic Acids & Derivatives, Amines, Carbohydrate, Amino Acid, Polymers & POC, Qualitative Analysis, Solid State, Liquid Solution, Transition Elements & Coordination Chemistry, Electrochemistry, Gr-15 to Gr-18 Groups, Ores & Metallurgy	100% Quadratic Equation & Expressions, Complex Numbers, Permutation & Combination, Probability, Binomial Theorem, Progression & Series, Vector, 3D Geometry, Trigonometric Ratios & Identities, Matrices, Determinants	100% Magnetism, Electromagnetic Induction, Heat & Thermodynamics, Gravitation, Fluid, SHM & Elasticity, Waves & Sound, Geometrical Optics, Wave Optics
Ai <sup>2</sup> TS-5(XII) After JEE (Main)	Paper 1 (3 Hrs) – Full JEE (Advanced) Syllabus Paper 2 (3 Hrs) – Full JEE (Advanced) Syllabus		
Ai <sup>2</sup> TS-6(XII) After JEE (Main)	Paper 1 (3 Hrs) – Full JEE (Advanced) Syllabus Paper 2 (3 Hrs) – Full JEE (Advanced) Syllabus		