

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

Class IX	Chemistry		Mathematics		Physics	
<b>Ai<sup>2</sup>TS-1(IX)</b> <b>29-Jul-24</b>	100%	Matter in Our Surrounding, Properties of Matter	100%	Lines and Angles Polynomials Euclid Geometry Number System, Indices, Surds	100%	Motion
<b>Ai<sup>2</sup>TS-2(IX)</b> <b>02-Sep-24</b>	30%	<b>Ai<sup>2</sup>TS-1 Syllabus</b>	30%	<b>Ai<sup>2</sup>TS-1 Syllabus</b>	30%	<b>Ai<sup>2</sup>TS-1 Syllabus</b>
	70%	Is matter around as pure?	70%	Coordinate Geometry Linear Equations in Two Variables, Triangles Heron's Formula	70%	Gravitation Laws of Motion
<b>Ai<sup>2</sup>TS-3(IX)</b> <b>25-Nov-24</b>	40%	<b>Ai<sup>2</sup>TS-1 &amp; Ai<sup>2</sup>TS-2 Syllabus</b>	40%	<b>Ai<sup>2</sup>TS-1 &amp; Ai<sup>2</sup>TS -2 Syllabus</b>	40%	<b>Ai<sup>2</sup>TS -1 &amp; Ai<sup>2</sup>TS -2 Syllabus</b>
	60%	Atoms, Molecules & Mole Concept	60%	Quadrilateral Areas of Parallelogram and Triangles Statistics	60%	Fluid Work, Power energy
<b>Ai<sup>2</sup>TS-4(IX)</b> <b>27-Jan-25</b>	100%	<b>Ai<sup>2</sup>TS-1, Ai<sup>2</sup>TS-2 &amp; Ai<sup>2</sup>TS-3 Syllabus</b>	100%	<b>Ai<sup>2</sup>TS-1, Ai<sup>2</sup>TS-2 &amp; Ai<sup>2</sup>TS-3 Syllabus</b>	100%	<b>Ai<sup>2</sup>TS -1, Ai<sup>2</sup>TS -2 &amp; Ai<sup>2</sup>TS -3 Syllabus</b>
		Atomic structure		Circles Constructions Surface Area and Volume Probability		Sound

Class X	Chemistry		Mathematics		Physics	
<b>Ai<sup>2</sup>TS-1(X)</b> <b>12-Aug-24</b>	100%	Acid, Base & Salts Chemical Reactions	100%	Linear Equations in Two Variables Polynomials Real Numbers Quadratic Equations	100%	Light
<b>Ai<sup>2</sup>TS-2(X)</b> <b>23-Sep-24</b>	30%	<b>Ai<sup>2</sup>TS-1 Syllabus</b>	30%	<b>Ai<sup>2</sup>TS-1 Syllabus</b>	30%	<b>Ai<sup>2</sup>TS-1 Syllabus</b>
	70%	Metals and Non-Metals	70%	Similar Triangles Trigonometry Application of Trigonometry Coordinate Geometry	70%	The Human Eye & The Colourful World Source of Energy
<b>Ai<sup>2</sup>TS-3(X)</b> <b>16-Dec-24</b>	40%	<b>Ai<sup>2</sup>TS-1 &amp; Ai<sup>2</sup>TS-2 Syllabus</b>	40%	<b>Ai<sup>2</sup>TS-1 &amp; Ai<sup>2</sup>TS -2 Syllabus</b>	40%	<b>Ai<sup>2</sup>TS -1 &amp; Ai<sup>2</sup>TS -2 Syllabus</b>
	60%	Carbon & Its Compounds	60%	Arithmetic Progressions Constructions Area Related to Circle Logarithms Tangents to a Circle	60%	Electricity and its Heating and Chemical Effects
<b>Ai<sup>2</sup>TS-4(X)</b> <b>17-Feb-25</b>	100%	<b>Ai<sup>2</sup>TS-1, Ai<sup>2</sup>TS-2 &amp; Ai<sup>2</sup>TS-3 Syllabus</b>	100%	<b>Ai<sup>2</sup>TS-1, Ai<sup>2</sup>TS-2 &amp; Ai<sup>2</sup>TS-3 Syllabus</b>	100%	<b>Ai<sup>2</sup>TS -1, Ai<sup>2</sup>TS -2 &amp; Ai<sup>2</sup>TS -3 Syllabus</b>
		Periodic Classification		Statistics Probability Surface Area and Volume		Magnetic Effect of Electric Current

Class XI	Chemistry		Mathematics		Physics	
<b>Ai<sup>2</sup>TS-1(XI)</b> <b>02-Sep-24</b>	100%	Mole Concept & Stoichiometry Gaseous State Atomic Structure	100%	Basic Mathematics Trigonometric Ratios & Identities Straight Line	100%	Vectors Kinematics Laws Of Motion
<b>Ai<sup>2</sup>TS-2(XI)</b> <b>04-Nov-24</b>	30%	<b>Ai<sup>2</sup>TS-1 Syllabus</b>	30%	<b>Ai<sup>2</sup>TS-1 Syllabus</b>	30%	<b>Ai<sup>2</sup>TS-1 Syllabus</b>
	70%	Chemical Bonding Periodic Properties Group 1 & Group 2 Hydrogen & Its Compounds	70%	Circle Quadratic Equations & Expressions Logarithms Progression and Series	70%	Work Power & Energy Conservation Of Momentum
<b>Ai<sup>2</sup>TS-3(XI)</b> <b>10-Feb-25</b>	40%	<b>Ai<sup>2</sup>TS-1 &amp; Ai<sup>2</sup>TS-2 Syllabus</b>	40%	<b>Ai<sup>2</sup>TS-1 &amp; Ai<sup>2</sup>TS -2 Syllabus</b>	40%	<b>Ai<sup>2</sup>TS -1 &amp; Ai<sup>2</sup>TS -2 Syllabus</b>
	60%	Chemical Kinetics Chemical Equilibrium Ionic Equilibrium Thermochemistry & Thermodynamics	60%	Parabola Trigonometric Equations & Inv. Trig. Ellipse Hyperbola	60%	Rotational Motion Gravitation Simple Harmonic Motion & Elasticity
<b>Ai<sup>2</sup>TS-4(XI)</b> <b>07-Apr-25</b>	40%	<b>Ai<sup>2</sup>TS-1, Ai<sup>2</sup>TS-2 &amp; Ai<sup>2</sup>TS-3 Syllabus</b>	40%	<b>Ai<sup>2</sup>TS-1, Ai<sup>2</sup>TS-2 &amp; Ai<sup>2</sup>TS-3 Syllabus</b>	40%	<b>Ai<sup>2</sup>TS-1, Ai<sup>2</sup>TS-2 &amp; Ai<sup>2</sup>TS-3 Syllabus</b>
	60%	Boron & Carbon Family GOC & Isomerism Electrophilic Aromatic Substitution Hydrocarbons Environmental Chemistry	60%	Permutation & Combination Binomial Theorem Complex Number Solution Of Triangle	60%	Fluids Waves & Sound Heat & Thermodynamics

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Class XII		Chemistry	Mathematics	Physics		
Ai <sup>2</sup> TS-1(XII) 05-Aug-24	40%	Questions from Class XI topics - Stoichiometry, Gaseous State, Atomic Structure, Periodic Properties	40%	Questions from Class XI topics- Straight Lines, Circle, Conic Section, Parabola, Ellipse, Hyperbola	40%	Questions from Class XI Topics- Vectors, Kinematics, Newton's Laws of Motion, Work, Power & Energy
	60%	Questions from Class XII topics – Alky & Aryl Halides, Alcohol, Ether & Phenol, Aldehyde & Ketone	60%	Questions from Class XII topics- Set, Relation & Function, Functions, Limits Continuity & Differentiability, Application of Derivatives	60%	Questions from Class XII topics - Electrostatics, Current Electricity
Ai <sup>2</sup> TS-2(XII) 16-Sep-24	30%	Questions from Class XI topics - Chemical Bonding, S Block & Hydrogen, Chemical Kinetics	30%	Questions from class XI topics- Permutation & Combination, Binomial Theorem	30%	Questions from class XI topics - Gravitation, SHM & Elasticity
	20%	<b>Questions on Ai<sup>2</sup>TS-1 topics (Class XII topics Only)</b>	20%	<b>Questions on Ai<sup>2</sup>TS-1 topics (Class XII topics Only)</b>	20%	<b>Questions on Ai<sup>2</sup>TS-1 topics (Class XII topics Only)</b>
	50%	Questions from Class XII topics - Carboxylic Acids & Derivatives Amines, Carbohydrate, Amino Acids, Polymers & POC	50%	Questions from Class XII topics- Indefinite Integrals, Definite Integrals, Area, Differential Equations	50%	Questions from Class XII topics Magnetism
Ai <sup>2</sup> TS-3(XII) 09-Dec-24	30%	Questions from class XI topics - Thermo chemistry & Thermodynamics, Chemical Equilibrium, Ionic Equilibrium, Boron & Carbon Family, Solid State	30%	Questions from class XI topics- Quadratic Equations& Expressions, Logarithms, Complex Numbers	30%	Questions from class XI topics - Conservation of Momentum, Rotation & Motion, Fluid
	20%	<b>Questions on Ai<sup>2</sup>TS-1 &amp; Ai<sup>2</sup>TS-2 topics (Class XII topics Only)</b>	20%	<b>Questions on Ai<sup>2</sup>TS-1 &amp; Ai<sup>2</sup>TS-2 topics (Class XII topics Only)</b>	20%	<b>Questions on Ai<sup>2</sup>TS-1 &amp; Ai<sup>2</sup>TS-2 topics (Class XII topics Only)</b>
	50%	Questions from Class XII topics - Qualitative Analysis, Solid State, Liquid Solution & Surface Chemistry	50%	50% Questions from Class XII topics -Probability, Determinants & Matrices	50%	Questions from Class XII topics Electromagnetic Induction
Ai <sup>2</sup> TS-4(XII) 03-Feb-25	30%	Questions from class XI topics – GOC & Isomerism, EAS, Hydrocarbons	30%	Questions from class XI topics- Progression & Series, Trigonometric Ratios and Identities, Solution of Triangle, Trigonometric Equations, Inverse Trigonometric Function	30%	Questions from class XI topics – Waves & Sound and Heat & Thermodynamics
	20%	<b>Questions on Ai<sup>2</sup>TS-1, Ai<sup>2</sup>TS-2 &amp; Ai<sup>2</sup>TS-3 topics (Class XII topics Only)</b>	20%	<b>Questions on Ai<sup>2</sup>TS-1, Ai<sup>2</sup>TS-2 &amp; Ai<sup>2</sup>TS- 3 topics (Class XII topics Only)</b>	20%	<b>Questions on Ai<sup>2</sup>TS-1, Ai<sup>2</sup>TS-2 &amp; Ai<sup>2</sup>TS-3 topics (Class XII topics Only)</b>
	50%	Questions from Class XII topics – Electrochemistry, d block Transition Elements & Coordination chemistry, f block Compounds, Gr 15-18 Groups, Ores & Metallurgy, Chemistry in Everyday Life	50%	Questions from Class XII topics - Vector & 3-D Geometry	50%	Questions from Class XII topics - Geometrical Optics & Wave Optics, Modern Physics, Error Analysis, Semiconductor Devices
Ai <sup>2</sup> TS-5(XII) 03-Mar-25	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, Environmental Chemistry, f & d block Compounds	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-6(XII) 24-Feb-25	100%	Alkyl & Aryl Halides, Alcohol, Ether & Phenol, Aldehyde & Ketone, Carboxylic Acids & Derivatives, Amines, Carbohydrate, Amino Acid, Polymers & POC, Qualitative Analysis, Solid State, Liquid Solution, Surface Chemistry, Transition Elements & Coordination Chemistry, Electrochemistry, Gr-15 to Gr-18 Groups, Ores & Metallurgy, Chemistry in Everyday Life	100%	Quadratic Equations& 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, Modern Physics, Error Analysis, Semiconductor Devices

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

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<b>Ai<sup>2</sup>TS-7(XII)</b> After JEE (Main)	<b>Paper 1 (3 Hrs) – Full JEE (Advanced) Syllabus</b> <b>Paper 2 (3 Hrs) – Full JEE (Advanced) Syllabus</b>
<b>Ai<sup>2</sup>TS-8(XII)</b> After JEE (Main)	<b>Paper 1 (3 Hrs) – Full JEE (Advanced) Syllabus</b> <b>Paper 2 (3 Hrs) – Full JEE (Advanced) Syllabus</b>

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