

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

Class XII	Chemistry		Mathematics		Physics	
Ai <sup>2</sup> TS-1(XII) 10-Jul-23	40%	Questions from Class XI <sup>th</sup> topics - Stoichiometry, Gaseous State, Atomic Structure, Periodic Properties	40%	Questions from Class XI <sup>th</sup> topics - Straight Lines, Circle, Conic Section, Parabola, Ellipse, Hyperbola	40%	Questions from Class XI <sup>th</sup> Topics- Vectors, Kinematics, Newton's Laws of Motion, Work, Power & Energy
	60%	Questions from Class XII <sup>th</sup> topics – Alky & Aryl Halides, Alcohol, Ether & Phenol, Aldehyde & Ketone	60%	Questions from Class XII <sup>th</sup> topics - Functions, Limits Continuity & Differentiability, Application of Derivatives	60%	Questions from Class XII <sup>th</sup> topics - Electrostatics, Current Electricity
Ai <sup>2</sup> TS-2(XII) 21-Aug-23	30%	Questions from class XI <sup>th</sup> topics - Chemical Bonding, S Block & Hydrogen, Chemical Kinetics	30%	Questions from class XI <sup>th</sup> topics - Permutation & Combination, Binomial Theorem	30%	Questions from class XI <sup>th</sup> topics - Gravitation, SHM & Elasticity
	20%	<b>Questions on Ai<sup>2</sup>TS-1 topics (Class XII<sup>th</sup> topics Only)</b>	20%	<b>Questions on Ai<sup>2</sup>TS-1 topics (Class XII<sup>th</sup> topics Only)</b>	20%	<b>Questions on Ai<sup>2</sup>TS-1 topics (Class XII<sup>th</sup> topics Only)</b>
	50%	Questions from Class XII <sup>th</sup> topics - Carboxylic Acids & Derivatives Amines, Carbohydrate, Amino Acids, Polymers & POC	50%	Questions from Class XII <sup>th</sup> topics - Indefinite Integrals, Definite Integrals, Area, Differential Equations	50%	Questions from Class XII <sup>th</sup> topics Magnetism
Ai <sup>2</sup> TS-3(XII) 25-Sep-23	30%	Questions from class XI <sup>th</sup> topics - Thermochemistry & Thermodynamics, Chemical Equilibrium, Ionic Equilibrium, Boron & Carbon Family, Solid State	30%	Questions from class XI <sup>th</sup> topics - Quadratic Equations & Expressions, Logarithms, Complex Numbers	30%	Questions from class XI <sup>th</sup> 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<sup>th</sup> topics Only)</b>	20%	<b>Questions on Ai<sup>2</sup>TS-1 &amp; Ai<sup>2</sup>TS-2 topics (Class XII<sup>th</sup> topics Only)</b>	20%	<b>Questions on Ai<sup>2</sup>TS-1 &amp; Ai<sup>2</sup>TS-2 topics (Class XII<sup>th</sup> topics Only)</b>
	50%	Questions from Class XII <sup>th</sup> topics - Qualitative Analysis, Solid State, Liquid Solution	50%	50% Questions from Class XII <sup>th</sup> topics - Probability, Determinants, Matrices & Vector	50%	Questions from Class XII <sup>th</sup> topics Electromagnetic Induction
Ai <sup>2</sup> TS-4(XII) 06-Nov-23	30%	Questions from class XI <sup>th</sup> topics – GOC & Isomerism, EAS, Hydrocarbons	30%	Questions from class XI <sup>th</sup> topics - Progression & Series, Trigonometric Ratios and Identities, Solution of Triangle, Trigonometric Equations, Inverse Trigonometric Function	30%	Questions from class XI <sup>th</sup> 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<sup>th</sup> 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<sup>th</sup> 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<sup>th</sup> topics Only)</b>
	50%	Questions from Class XII <sup>th</sup> topics – Electrochemistry, d b block Transition Elements & Coordination, f block Compounds, Gr 15-18 Groups, Ores & Metallurgy	50%	Questions from Class XII <sup>th</sup> topics - 3-D Geometry	50%	Questions from Class XII <sup>th</sup> topics - Geometrical Optics & Wave Optics, Modern Physics
Ai <sup>2</sup> TS-5(XII) 25-Dec-23	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, Chemistry in everyday life d & f block	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)05- Feb-24	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 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

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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>