

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

The syllabus for classes IX, X & XI are exclusive and only cover the current year's coverage however for class XII the syllabus covers all the topics which are listed in the JEE Syllabus.

CLASS	Ai <sup>2</sup> TS	CHEMISTRY	MATHEMATICS	PHYSICS
IX	Ai <sup>2</sup> TS-1(IX) 11-Sep-17	100% Matter in Our Surrounding, Properties of Matter	100% Euclid Geometry Lines and Angles Number System, Indices, Surds & Logarithms Polynomials	100% Motion
	Ai <sup>2</sup> TS-2(IX) 06-Nov-17	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% Co-ordinate Geometry Heron's Formula Triangles	70% Gravitation Laws of Motion
	Ai <sup>2</sup> TS-3(IX) 08-Jan-18	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% Areas of Parallelogram and Triangles Linear Equations in Two Variables Quadrilateral Statistics	60% Fluid Work, Power energy
Ai <sup>2</sup> TS-4(IX) 05-Mar-18	40% Ai <sup>2</sup> TS-1, Ai <sup>2</sup> TS-2 & Ai <sup>2</sup> TS-3 Syllabus	40% Ai <sup>2</sup> TS-1, Ai <sup>2</sup> TS-2 & Ai <sup>2</sup> TS-3 Syllabus	40% Ai <sup>2</sup> TS -1, Ai <sup>2</sup> TS -2 & Ai <sup>2</sup> TS -3 Syllabus	
	60% Atomic structure	60% Circles Constructions Probability Surface Area and Volume	60% Sound	

CLASS	Ai <sup>2</sup> TS	CHEMISTRY	MATHEMATICS	PHYSICS
X	Ai <sup>2</sup> TS-1(X) 17-Jul-17	100% Acid Base And Salts Chemical Reactions	100% Linear Equations in Two Variables Polynomials Real Numbers	100% Domestic Electric Circuits Electricity
	Ai <sup>2</sup> TS-2(X) 28-Aug-17	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 Statistics Trigonometry Application of Trigonometry	70% Magnetic Effect of Electric Current Source of Energy
	Ai <sup>2</sup> TS-3(X) 30-Oct-17	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% Arithmetic Progressions Constructions Quadratic Equations Tangents to a Circle	60% Light
Ai <sup>2</sup> TS-4(X) 11-Dec-17	40% Ai <sup>2</sup> TS-1, Ai <sup>2</sup> TS-2 & Ai <sup>2</sup> TS-3 Syllabus	40% Ai <sup>2</sup> TS-1, Ai <sup>2</sup> TS-2 & Ai <sup>2</sup> TS-3 Syllabus	40% Ai <sup>2</sup> TS -1, Ai <sup>2</sup> TS -2 & Ai <sup>2</sup> TS -3 Syllabus	
	60% Periodic Classification	60% Area Related to Circle Co-ordinate Geometry Probability Surface Area and Volume	60% The Human Eye & The Colourful World	

CLASS	Ai <sup>2</sup> TS	CHEMISTRY	MATHEMATICS	PHYSICS
XI	Ai <sup>2</sup> TS-1(XI) 18-Sep-17	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) 13-Nov-17	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 Kinetics Chemical Equilibrium	70% Circles Parabola	70% Laws Of Motion Work Power & Energy Conservation Of Momentum
	Ai <sup>2</sup> TS-3(XI) 29-Jan-18	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 Thermodynamics Group 13 & Group 14	60% Ellipse Hyperbola Quadratic Equations & Expressions	60% Rotational Motion Gravitation Fluids
Ai <sup>2</sup> TS-4(XI) 19-Mar-18	40% Ai <sup>2</sup> TS-1, Ai <sup>2</sup> TS-2 & Ai <sup>2</sup> TS-3 Syllabus	40% Ai <sup>2</sup> TS-1, Ai <sup>2</sup> TS-2 & Ai <sup>2</sup> TS-3 Syllabus	40% Ai <sup>2</sup> TS -1, Ai <sup>2</sup> TS -2 & Ai <sup>2</sup> TS -3 Syllabus	
	60% General Organic Chemistry Isomerism Electrophilic Aromatic Substitution Hydrocarbons	60% Binomial Theorem Permutation & Combination Progression and Series Solution Of Triangle Trigonometric Equations Complex Numbers	60% Simple Harmonic Motion Waves & Sound Heat & Thermodynamics	

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CLASS	Ai <sup>2</sup> TS	CHEMISTRY	MATHEMATICS	PHYSICS	
XII	Ai <sup>2</sup> TS-1(XII) 03-Jul-17	40% Questions from Class XIth topics - Stoichiometry, Gaseous State, Atomic Structure, Periodic Properties 60% Questions from Class XIIth topics - Alky & Aryl Halides, Alcohol, Ether & Phenol, Aldehyde & Ketone	40% Questions from Class XIth topics - Straight Lines, Circle, Conic Section, Parabola, Ellipse, Hyperbola 60% Questions from Class XIIth topics - Functions, Limits Continuity & Differentiability, Application of Derivatives	40% Questions from Class XIth topics - Vectors, Kinematics, Newton's Laws of Motion, Work, Power & Energy 60% Questions from Class XIIth topics - Electrostatics, Current Electricity	
	Ai <sup>2</sup> TS-2(XII) 31-Jul-17	30% Questions from class XIth topics - Chemical Bonding, S Block & Hydrogen, Chemical Kinetics 20% Questions on Ai <sup>2</sup> TS-1 topics (Class XII topics Only) 50% Questions from Class XIIth topics - Carboxylic Acids & Derivatives Amines, Carbohydrate, Amino Acids, Polymers & POC	30% Questions from class XIth topics - Permutation & Combination, Binomial Theorem 20% Questions on Ai <sup>2</sup> TS-1 topics (Class XII topics Only) 50% Questions from Class XIIth topics - Indefinite Integrals, Definite Integrals, Area, Differential Equations	30% Questions from class XIth topics - Gravitation, SHM & Elasticity 20% Questions on Ai <sup>2</sup> TS-1 topics (Class XII topics Only) 50% Questions from Class XIIth topics - Magnetism	
	Ai <sup>2</sup> TS-3(XII) 04-Sep-17	30% Questions from class XIth topics - Thermochemistry & Thermodynamics, Chemical Equilibrium, Ionic Equilibrium, Boron & Carbon Family 20% Questions on Ai <sup>2</sup> TS-1 & Ai <sup>2</sup> TS-2 topics (Class XII topics Only) 50% Questions from Class XIIth topics - Qualitative Analysis, Solid State, Liquid Solution, Electrochemistry	30% Questions from class XIth topics - Quadratic Equations & Expressions, Logarithms, Complex Numbers 20% Questions on Ai <sup>2</sup> TS-1 & Ai <sup>2</sup> TS-2 topics (Class XII topics Only) 50% Questions from Class XIIth topics - Probability, Determinants, Matrices & Vector	30% Questions from class XIth topics - Conservation of Momentum, Rotation & Motion, Fluid 20% Questions on Ai <sup>2</sup> TS-1 & Ai <sup>2</sup> TS-2 topics (Class XII topics Only) 50% Questions from Class XIIth topics - Electromagnetic Induction	
	Ai <sup>2</sup> TS-4(XII) 09-Oct-17	30% Questions from class XIth topics - GOC & Isomerism, EAS, Hydrocarbons 20% Questions on Ai <sup>2</sup> TS-1, Ai <sup>2</sup> TS-2 & Ai <sup>2</sup> TS-3 topics (Class XII topics Only) 50% Questions from Class XIIth topics - Transition Elements & Coordination Compounds, Gr 15-18 Groups, Ores & Metallurgy	30% Questions from class XIth topics - Progression & Series, Trigonometric Ratios and Identities, Solution of Triangle, Trigonometric Equations, Inverse Trigonometric Function 20% Questions on Ai <sup>2</sup> TS-1, Ai <sup>2</sup> TS-2 & Ai <sup>2</sup> TS-3 topics (Class XII topics Only) 50% Questions from Class XIIth topics - 3-D Geometry	30% Questions from class XIth topics - Waves & Sound and Heat & Thermodynamics 20% Questions on Ai <sup>2</sup> TS-1, Ai <sup>2</sup> TS-2 & Ai <sup>2</sup> TS-3 topics (Class XII topics Only) 50% Questions from Class XIIth topics - Geometrical Optics & Wave Optics, Modern Physics	
	Ai <sup>2</sup> TS-5(XII) 20-Nov-17	Stoichiometry Gaseous State Atomic Structure Periodic Properties Chemical Bonding S-Block & Hydrogen Chemical Kinetics Thermo chemistry & Thermodynamics	Set, Relations & Function Function Limits, Continuity & Differentiability Application of Derivatives Indefinite Integrals Definite Integrals	Vector Kinematics Laws of Motion Work, Energy & Power Conservation of Momentum	
	Ai <sup>2</sup> TS-6(XII) 18-Dec-17	Chemical Equilibrium Ionic Equilibrium Boron & Carbon Family GOC & Isomerism EAS Hydrocarbons	Area Differential Equations Straight Lines Circle Parabola Ellipse Hyperbola	Rotational Motion Electrostatics Current Electricity	
	Ai <sup>2</sup> TS-7(XII) 15-Jan-18	Alkyl & Aryl Halides Alcohol, Ether & Phenol Aldehyde & Ketone Carboxylic Acids & Derivatives Amines Carbohydrate, Amino Acid, Polymers & POC	Quadratic Equation & Expressions Complex Numbers Permutation & Combination Probability Binomial Theorem Progression & Series	Magnetism Electromagnetic Induction Heat & Thermodynamics Gravitation Fluid	
	Ai <sup>2</sup> TS-8(XII) 19-Feb-18	Qualitative Analysis Solid State Liquid Solution Transition Elements & Coordination Chemistry Electrochemistry Gr-15 to Gr-18 Groups Ores & Metallurgy	Vector 3D Geometry Trigonometric Ratios & Identities Matrices Determinants	SHM & Elasticity Waves & Sound Geometrical Optics Wave Optics	
	Ai <sup>2</sup> TS-9(XII) 16-Apr-18	<b>PAPER 1 (3 Hrs) – FULL JEE ADVANCED SYLLABUS</b>			
	Ai <sup>2</sup> TS-10(XII) 23-Apr-18	<b>PAPER 2 (3 Hrs) – FULL JEE ADVANCED SYLLABUS</b>			