

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

The syllabus for classes IX, X & XI are exclusive and only cover the current years 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) 20-Aug-18	100%	Matter in Our Surrounding, Properties of Matter	100%	Euclid Geometry Lines and Angles Number System, Indices, Surds & Polynomials	100%	Motion
	Ai <sup>2</sup> TS-2(IX) 05-Nov-18	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 Co-ordinate Geometry Triangles	70%	Gravitation Laws of Motion
	Ai <sup>2</sup> TS-3(IX) 07-Jan-19	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 Heron's Formula	60%	Fluid Work, Power energy
Ai <sup>2</sup> TS-4(IX) 18-Feb-19	60%	Atomic structure	60%	Circles Constructions Probability Statistics Surface Area and Volume	60%	Sound	

CLASS	Ai <sup>2</sup> TS	CHEMISTRY		MATHEMATICS		PHYSICS	
X	Ai <sup>2</sup> TS-1(X) 16-Jul-18	100%	Acid Base And Salts Chemical Reactions	100%	Arithmetic Progressions Linear Equations in Two Variables Polynomials Quadratic Equations Real Numbers	100%	Domestic Electric Circuits Electricity
	Ai <sup>2</sup> TS-2(X) 10-Sep-18	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 Application of Trigonometry Logarithms	70%	Magnetic Effect of Electric Current Source of Energy
	Ai <sup>2</sup> TS-3(X) 03-Dec-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%	Carbon & Its Compounds	60%	Co-ordinate Geometry Constructions Tangents to a Circle Statistics	60%	Light
Ai <sup>2</sup> TS-4(X) 04-Feb-19	60%	Periodic Classification	60%	Area Related to Circle 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) 10-Sep-18	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) 05-Nov-18	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	70%	Circles Parabola	70%	Laws Of Motion Work Power & Energy Conservation Of Momentum
	Ai <sup>2</sup> TS-3(XI) 07-Jan-19	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) 18-Mar-19	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) 16-Jul-18	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) 06-Aug-18	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) 10-Sep-18	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) 08-Oct-18	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) 05-Nov-18	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) 03-Dec-18	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) 21-Jan-19	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) 18-Feb-19	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) 22-Apr-19	<b>PAPER 1 (3 Hrs) – FULL JEE ADVANCED SYLLABUS</b> <b>PAPER 2 (3 Hrs) – FULL JEE ADVANCED SYLLABUS</b>		
	Ai <sup>2</sup> TS-10(XII) 29-Apr-19	<b>PAPER 1 (3 Hrs) – FULL JEE ADVANCED SYLLABUS</b> <b>PAPER 2 (3 Hrs) – FULL JEE ADVANCED SYLLABUS</b>		

## TEST PLAN

Ai <sup>2</sup> TS	DATE OF EXAM	TIME OF EXAM	PRE – TEST	TEST DAY	POST - TEST		
			DAY 1	DAY 4	DAY 5	DAY 6	DAY 7
			Mailing of Question Paper	Test Conduction & Attendance	OMR Scanning & Key Error Reporting	Response Extraction & Validation	Result Import/ Validation/ Finalization
Ai <sup>2</sup> TS-1(IX)	20-Aug-18	16:00 – 19:00	17-Aug-18	20-Aug-18	21-Aug-18	22-Aug-18	23-Aug-18
Ai <sup>2</sup> TS-2(IX)	5-Nov-18	16:00 – 19:00	2-Nov-18	5-Nov-18	6-Nov-18	7-Nov-18	8-Nov-18
Ai <sup>2</sup> TS-3(IX)	7-Jan-19	16:00 – 19:00	4-Jan-19	7-Jan-19	8-Jan-19	9-Jan-19	10-Jan-19
Ai <sup>2</sup> TS-4(IX)	18-Feb-19	16:00 – 19:00	15-Feb-19	18-Feb-19	19-Feb-19	20-Feb-19	21-Feb-19
Ai <sup>2</sup> TS-1(X)	16-Jul-18	16:00 – 19:00	13-Jul-18	16-Jul-18	17-Jul-18	18-Jul-18	19-Jul-18
Ai <sup>2</sup> TS-2(X)	10-Sep-18	16:00 – 19:00	7-Sep-18	10-Sep-18	11-Sep-18	12-Sep-18	13-Sep-18
Ai <sup>2</sup> TS-3(X)	3-Dec-18	16:00 – 19:00	30-Nov-18	3-Dec-18	4-Dec-18	5-Dec-18	6-Dec-18
Ai <sup>2</sup> TS-4(X)	4-Feb-19	16:00 – 19:00	1-Feb-19	4-Feb-19	5-Feb-19	6-Feb-19	7-Feb-19
Ai <sup>2</sup> TS-1(XI)	10-Sep-18	16:00 – 19:00	7-Sep-18	10-Sep-18	11-Sep-18	12-Sep-18	13-Sep-18
Ai <sup>2</sup> TS-2(XI)	5-Nov-18	16:00 – 19:00	2-Nov-18	5-Nov-18	6-Nov-18	7-Nov-18	8-Nov-18
Ai <sup>2</sup> TS-3(XI)	7-Jan-19	16:00 – 19:00	4-Jan-19	7-Jan-19	8-Jan-19	9-Jan-19	10-Jan-19
Ai <sup>2</sup> TS-4(XI)	18-Mar-19	16:00 – 19:00	15-Mar-19	18-Mar-19	19-Mar-19	20-Mar-19	21-Mar-19
Ai <sup>2</sup> TS-1(XII)	16-Jul-18	16:00 – 19:00	13-Jul-18	16-Jul-18	17-Jul-18	18-Jul-18	19-Jul-18
Ai <sup>2</sup> TS-2(XII)	6-Aug-18	16:00 – 19:00	3-Aug-18	6-Aug-18	7-Aug-18	8-Aug-18	9-Aug-18
Ai <sup>2</sup> TS-3(XII)	10-Sep-18	16:00 – 19:00	7-Sep-18	10-Sep-18	11-Sep-18	12-Sep-18	13-Sep-18
Ai <sup>2</sup> TS-4(XII)	8-Oct-18	16:00 – 19:00	5-Oct-18	8-Oct-18	9-Oct-18	10-Oct-18	11-Oct-18
Ai <sup>2</sup> TS-5(XII)	5-Nov-18	16:00 – 19:00	2-Nov-18	5-Nov-18	6-Nov-18	7-Nov-18	8-Nov-18
Ai <sup>2</sup> TS-6(XII)	3-Dec-18	16:00 – 19:00	30-Nov-18	3-Dec-18	4-Dec-18	5-Dec-18	6-Dec-18
Ai <sup>2</sup> TS-7(XII)	21-Jan-19	16:00 – 19:00	18-Jan-19	21-Jan-19	22-Jan-19	23-Jan-19	24-Jan-19
Ai <sup>2</sup> TS-8(XII)	18-Feb-19	16:00 – 19:00	15-Feb-19	18-Feb-19	19-Feb-19	20-Feb-19	21-Feb-19
Ai <sup>2</sup> TS-9(XII) – Paper 1	22-Apr-19	10:00 – 13:00	19-Apr-19	22-Apr-19	23-Apr-19	24-Apr-19	25-Apr-19
Ai <sup>2</sup> TS-9(XII) – Paper 2		14:00 – 17:00					
Ai <sup>2</sup> TS-10(XII) – Paper 1	29-Apr-19	10:00 – 13:00	26-Apr-19	29-Apr-19	30-Apr-19	1-May-19	2-May-19
Ai <sup>2</sup> TS-10(XII) – Paper 2		14:00 – 17:00					