



COURSE PLANNER

CLASS-XII | AKHIL (01EF)

Medium: Eng./Hin. Academic Session: 2021-22

Course Start: 05.04.2021 | Syllabus End: 05.02.2022

Target: JEE (Main) 2022

TOTAL ACADEMIC HOURS

- ◆ Course Duration: 43 Weeks
- ◆ Total Number of Lectures: 542 (P: 196 | C: 176 | M: 170)
- ◆ Duration of one lecture: 1.5 hrs = 90 minutes
- ◆ Total Duration of Classroom Teaching: 813 hrs
- ◆ Total Duration of Testing Hours (ACTs/APTs/MCTs/MT/AIOT): 51 hrs
- ◆ Total Academic Hours in AKHIL Course: 864 hrs

SUBJECT WISE SYLLABUS PLAN

PHYSICS [P]				CHEMISTRY [C]			MATHEMATICS [M]							
S. No.	Topic Name/Sequence	No of Lectures	Starting Date	S. No.	Topic Name/Sequence	No of Lectures	Starting Date	S. No.	Topic Name/Sequence	No of Lectures	Starting Date			
1	Mathematical Tools	7	05-Apr-21	PHYSICAL/ INORGANIC			1	Mole Concept	5	05-Apr-21	1	Fundamentals of Mathematics	05-Apr-21	14
2	Geometrical optics	20	19-Apr-21	2	Gaseous state	2	20-Apr-21	2	Quadratic Equation	29-Apr-21	6			
3	Buffer	7	24-May-21	3	Solid State	6	27-Apr-21	3	Relation, Function & ITF	11-May-21	15			
4	Electrostatics	18	31-May-21	4	Solution & Colligative Properties	7	18-May-21	4	Limits, Continuity & Derivability	07-Jun-21	12			
5	Gravitation	3	29-Jun-21	5	Quantum Mechanical model of Atom	4	14-Jun-21	5	Method of Differentiation	25-Jun-21	3			
6	Current Electricity	9	02-Jul-21	6	Periodic Table & Properties	2	23-Jun-21	6	Straight Line + SOT	30-Jun-21	4			
7	Capacitance	8	15-Jul-21	7	BIN	1	29-Jun-21	7	Circle	06-Jul-21	5			
8	EMF	11	27-Jul-21	8	Chemical Bonding	8	30-Jun-21	8	Application of Derivatives	13-Jul-21	11			
9	EMI	10	16-Aug-21	9	Coordination Compounds	7	20-Jul-21	9	Indefinite Integration	28-Jul-21	5			
10	Alternating Current	4	30-Aug-21	10	Chemical Kinetics & Radioactivity	6	04-Aug-21	10	Definite Integration & Its App.	04-Aug-21	11			
11	Modern Physics-I	8	03-Sep-21	11	Surface Chemistry	3	18-Aug-21	11	Sequence & Series	19-Aug-21	5			
12	Nuclear Physics	6	15-Sep-21	12	Chemical Equilibrium	4	25-Aug-21	12	Statistics	26-Aug-21	2			
13	Wave Optics	5	23-Sep-21	13	Electrochemistry	6	06-Sep-21	13	Differential Equation	30-Aug-21	5			
14	Electromagnetic Waves	1	30-Sep-21	14	Metallurgy	3	20-Sep-21	14	Matrices & Determinant	06-Sep-21	9			
15	Semiconductors	4	01-Oct-21	15	Ionic Equilibrium	6	27-Sep-21	15	Vector & 3-D	17-Sep-21	14			
16	Principle of communication	3	07-Oct-21	16	p-block Elements (N & O Gases)	3	11-Oct-21	16	Mathematical Reasoning	07-Oct-21	2			
17	Rectilinear Motion	3	12-Oct-21	17	p-block Elements (H & N Gases)	2	18-Oct-21	17	Linear Programming	11-Oct-21	2			
18	Projectile Motion	2	15-Oct-21	18	Real Gases	4	20-Oct-21	18	Binary Operation	13-Oct-21	1			
19	Relative Motion	3	19-Oct-21	19	Thermodynamics & Thermochem.	7	11-Nov-21	19	Binomial Theorem	14-Oct-21	5			
20	NLM & Friction	8	22-Oct-21	20	Equivalent Concept	4	29-Nov-21	20	Permutation & Combination	21-Oct-21	9			
21	Work, Power & Energy	5	16-Nov-21	21	p-block Elements (B & C Family)	3	07-Dec-21	21	Probability	16-Nov-21	8			
22	Circular Motion	4	24-Nov-21	22	Qualitative Analysis	3	14-Dec-21	22	Complex Number	26-Nov-21	9			
23	Centre of Mass	6	01-Dec-21	23	s-Block elements	1	21-Dec-21	23	Conic Section	09-Dec-21	13			
24	Rigid Body Dynamics	8	13-Dec-21	24	d & f-Block elements	1	22-Dec-21							
25	Simple Harmonic Motion	6	24-Dec-21	ORGANIC			1	IUPAC Nomenclature	6	05-Apr-21				
26	Elasticity	1	31-Dec-21	1	IUPAC Nomenclature	6	05-Apr-21	2	Structural Isomerism	2	27-Apr-21			
27	Viscosity	1	01-Jan-22	2	Structural Isomerism	2	27-Apr-21	3	Structural Identification & POC	3	04-May-21			
28	String Waves	5	03-Jan-22	3	Structural Identification & POC	3	04-May-21	4	GOC-I	7	17-May-21			
29	Sound Waves	5	08-Jan-22	4	GOC-I	7	17-May-21	5	GOC-II	6	08-Jun-21			
30	Fluids	4	14-Jan-22	5	GOC-II	6	08-Jun-21	6	Mains Stereoisomerism	5	29-Jun-21			
31	Calorimetry & Thermal Expansion	3	19-Jan-22	6	Mains Stereoisomerism	5	29-Jun-21	7	ORM-I	6	19-Jul-21			
32	KTG & Thermodynamics	4	22-Jan-22	7	ORM-I	6	19-Jul-21	8	ORM-II	6	09-Aug-21			
33	Heat Transfer	2	27-Jan-22	8	ORM-II	6	09-Aug-21	9	Reduction, Oxidation & Hydrolysis	1	30-Aug-21			
34	Surface Tension	2	29-Jan-22	9	Reduction, Oxidation & Hydrolysis	1	30-Aug-21	10	ORM-III	7	31-Aug-21			
				10	ORM-III	7	31-Aug-21	11	ORM-IV	5	27-Sep-21			
				11	ORM-IV	5	27-Sep-21	12	Aromatic Compound	5	12-Oct-21			
				12	Aromatic Compound	5	12-Oct-21	13	Carbonyl Compounds	5	11-Nov-21			
				13	Carbonyl Compounds	5	11-Nov-21	14	Carboxylic Acid & Acid Derivatives	1	29-Nov-21			
				14	Carboxylic Acid & Acid Derivatives	1	29-Nov-21	15	Carbonyl Comp. & Carboxylic Acid & Acid Derivatives	1	30-Nov-21			
				15	Carbonyl Comp. & Carboxylic Acid & Acid Derivatives	1	30-Nov-21	16	Biomolecules & Polymers	4	06-Dec-21			
				16	Biomolecules & Polymers	4	06-Dec-21	17	Chemistry in Everyday Life, Physical properties & POC-II	2	20-Dec-21			
				17	Chemistry in Everyday Life, Physical properties & POC-II	2	20-Dec-21	18	Biomolecules & Polymers	4	06-Dec-21			
				18	Biomolecules & Polymers	4	06-Dec-21	19	Chemistry in Everyday Life, Physical properties & POC-II	2	20-Dec-21			
				19	Chemistry in Everyday Life, Physical properties & POC-II	2	20-Dec-21							
Total No. of Lectures				196	Total No. of Lectures			176	Total No. of Lectures			170		

DPP DISTRIBUTION SCHEDULE

S.No.	Date	Week	Module
1	Monday, 5 April, 2021	W-1	A
2	Monday, 14 June, 2021	W-13	B
3	Monday, 20 September, 2021	W-25	C

RESONANCE EDUVENTURES LTD.

PERIODIC TEST SCHEDULE & RESULT COMMUNICATION

S. No.	Periodic Test Type and No.	Test Pattern	Periodic Test Date	Uploading of Result on Resonance Website	Periodic Test Syllabus			Testing Hours	
					Physics	Chemistry			Mathematics
						Physical/ Inorganic	Organic		
1	PT-1	JEE (Main)	02-05-2021 (Sunday)	12-05-2021 (Wednesday)	Mathematical tools and Geometrical optics (Up to Plane mirror)	Mole Concept & Gaseous State	IUPAC Nomenclature	FOM	3
2	CT-1	JEE (Main)	30-05-2021 (Sunday)	09-06-2021 (Wednesday)	Mathematical tools and Geometrical optics Complete	Mole Concept, Gaseous State, Solid State	IUPAC Nomenclature & Structural Isomerism, Structural Identification & POC, GOC-I (upto Resonance)	FOM, Quadratic Equation, Relation Function IIF (up to Inverse Properties)	3
3	PT-2	JEE (Main)	20-06-2021 (Sunday)	30-06-2021 (Wednesday)	Geometrical Optical, Electrostatics (Up to electric potential)	Solid State & Solution & Colligative Properties	Structural Isomerism, Structural Identification & POC, GOC-I	Quadratic Equation, Relation, Function & IIF, Limits, Continuity & Derivability (up to Limits)	3
4	CT-2	JEE (Main)	11-07-2021 (Sunday)	21-07-2021 (Wednesday)	Geometrical optics, Electrostatics, Gravitation	Mole Concept, Gaseous State, Solid State, Solution & Colligative Properties, Quantum Mechanical model of atom (GMM), Periodic Table & Properties, BIN	IUPAC Nomenclature & Structural Isomerism, Structural Identification & POC, GOC-I & II	FOM, Quadratic Equation, Relation Function IIF, LCD, MOD, Straight line, SOT	3
5	PT-3	JEE (Main)	25-07-2021 (Sunday)	04-08-2021 (Wednesday)	Electrostatics, Gravitation, Current Electricity	Quantum Mechanical model of atom (GMM), Periodic Table & Properties, BIN & Chemical Bonding	GOC-I & Stereoisomerism	Relation, Function & IIF, Limits, Continuity & Derivability, MOD, Straight Line, SOT, Circle	3
6	CT-3	JEE (Main)	08-08-2021 (Sunday)	18-08-2021 (Wednesday)	Geometrical optics, Electrostatics, Gravitation, Capacitance, EMF (Up to Circular path)	Mole Concept, Gaseous State, Solid State, Solution & Colligative Properties, Quantum Mechanical model of atom (GMM), Periodic Table & Properties, BIN, Chemical Bonding, Coordination Compounds (upto tetrahedral and Square planer splitting)	IUPAC Nomenclature & Structural Isomerism, Stereoisomerism, ORM-I (upto Sn2Th reaction of acid (SOCl2, ROH, NH3, P2O5 & Esterification))	FOM, Quadratic Equation, Relation, Function & IIF, Limits, Continuity & Derivability, MOD, Straight Line, SOT, Circle, ADD	3
7	PT-4	JEE (Main)	29-08-2021 (Sunday)	08-09-2021 (Wednesday)	Capacitance, EMF - EMI (Up to Self inductance)	Coordination Compounds, Chemical Kinetics & Radioactivity, Surface Chemistry (upto Surface Chemistry)	ORM-I & ORM-II (upto Free radical addition reaction)	Circle, ADD, Indefinite Integration, Definite Integration and its Application, Sequence and Series	3
8	CT-4	JEE (Main)	19-09-2021 (Sunday)	29-09-2021 (Wednesday)	Geometrical optics, Electrostatics, Gravitation, Current Electricity, Capacitance, EMF, EMI, AC, Modern Physics	Mole Concept, Gaseous State, Solid State, Solution & Colligative Properties, Quantum Mechanical model of atom (GMM), Periodic Table & Properties, BIN, Chemical Bonding, Coordination Compounds, Chemical Kinetics & Radioactivity, Surface Chemistry, Chemical Equilibrium (upto Electrolysis basics, Faraday's Laws)	IUPAC Nomenclature & Structural Isomerism, Structural Identification & POC, GOC-I & II, Stereoisomerism, ORM-I & II, Reduction, Oxidation & Hydrolysis, ORM-III (upto Substitution reaction of alkyl halide)	FOM, Quadratic Equation, Relation, Function & IIF, Limits, Continuity & Derivability, MOD, Straight Line, SOT, Circle, ADD, Indefinite Integration, Definite Integration and its Application, Sequence and Series, Statistics, Differential Equation	3
9	PT-5	JEE (Main)	10-10-2021 (Sunday)	20-10-2021 (Wednesday)	EMI, AC, Modern Physics, Nuclear Physics, Wave Optics, EMW, Semiconductor	Surface Chemistry, Chemical Equilibrium, Electrochemistry, Metallurgy, Ionic Equilibrium (upto Weak acids & bases: pH calculations & buffers)	ORM-II, Reduction, Oxidation & Hydrolysis, ORM-IV (upto Elimination reaction E2)	Sequence and Series, Statistics, Differential Equation, Matrices & Determinant, Vector & 3-D	3
10	CT-5	JEE (Main)	31-10-2021 (Sunday)	10-11-2021 (Wednesday)	Geometrical optics, Electrostatics, Gravitation, Current Electricity, Capacitance, EMF, EMI, AC, Modern Physics, Nuclear Physics, Wave Optics, EMW, Semiconductor, POC, Rectilinear Motion, Projectile Motion, Relative Motion	Mole Concept, Gaseous State, Solid State, Solution & Colligative Properties, Quantum Mechanical model of atom (GMM), Periodic Table & Properties, BIN, Chemical Bonding, Coordination Compounds, Chemical Kinetics & Radioactivity, Surface Chemistry, Chemical Equilibrium, Electrochemistry, Metallurgy, Ionic Equilibrium, p-block elements (15 to 18 groups)	IUPAC Nomenclature & Structural Isomerism, Structural Identification & POC, GOC-I & II, Stereoisomerism, ORM-I & II, Reduction, Oxidation & Hydrolysis, ORM-III & IV, Aromatic Compounds (upto Preparation reaction of aniline and amines)	FOM, Quadratic Equation, Relation, Function & IIF, Limits, Continuity & Derivability, MOD, Straight Line, SOT, Circle, ADD, Indefinite Integration, Definite Integration and its Application, Sequence and Series, Differential Equation, Matrices & Determinant, Vector and 3D, Mathematical Reasoning, Binomial Theorem	3
11	PT-6	JEE (Main)	28-11-2021 (Sunday)	08-12-2021 (Wednesday)	Semiconductor, POC, Rectilinear Motion, Projectile Motion, Relative Motion, NLM, Friction, WPE	Ionic Equilibrium, p-block elements (15 to 18 groups), Real Gases, Thermodynamic & Thermochemistry (upto 2nd law of TD & Entropy calculations)	ORM-IV, Aromatic Compounds, Carbonyl Compounds (upto Cannizzaro reaction)	Vector & 3D, Mathematical Reasoning, Binomial Theorem, Permutation & Combination	3
12	MMT-XI	JEE (Main)	26-12-2021 (Sunday)	29-12-2021 (Wednesday)	XII syllabus	XII syllabus	XII syllabus	XI syllabus	3
13	MMT	JEE (Main)	02-01-2022 (Sunday)	12-01-2022 (Wednesday)	XII syllabus	XII syllabus	XII syllabus	XI syllabus	3
14	MMT	JEE (Main)	05-01-2022 (Wednesday)	12-01-2022 (Wednesday)	XI & XII Syllabus	XI & XII Syllabus	XI & XII Syllabus	XI & XII Syllabus	3
15	MT	JEE (Main)	06-02-2022 (Sunday)	16-02-2022 (Wednesday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
16	MT	JEE (Main)	09-02-2022 (Wednesday)	16-02-2022 (Wednesday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
17	AJOT (Main)	JEE (Main)	13-02-2022 (Sunday)	16-02-2022 (Wednesday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
TOTAL TESTING HOURS									51

Note: 1. Students are advised to refer their notice board for test timings.

2. Student can submit their request to Result Section for re-evaluation in two working days after first display of result.