

COURSE PLANNER

CLASS-XII+ | VIJAY (01JR / 02JR)

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

Course Start: 02.08.2021 | Syllabus End: 26.03.2022

Target: JEE (Main+Advanced) 2022



TOTAL ACADEMIC HOURS

Course Duration: 34 Weeks

Total No. of Lectures: 569 (P: 186 | C: 200 | M: 183)

Duration of one lecture: 1.5 hrs = 90 minutes

Total Duration of Classroom Teaching: 854 hrs

Total Duration of Testing Hours (ACTs/APTs/MCTs/MT/AOT): 60 hrs

Total Academic Hours in VIJAY Course: 914 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	Rectilinear motion	5	02-Aug-21	1	Mole Concept	6	02-Aug-21	1	Fundamentals of Mathematics	17	02-Aug-21			
2	Projectile motion	4	10-Aug-21	2	Quantum Mech. model of atom	2	23-Aug-21	2	Quadratic Equation	8	30-Aug-21			
3	Relative motion	8	17-Aug-21	3	Periodic Table	3	30-Aug-21	3	Relation, Function & ITF	14	10-Sep-21			
4	Geometrical Optics	19	30-Aug-21	4	Real Gases	4	07-Sep-21	4	Statistics	3	27-Sep-21			
5	Newton's laws of motion	9	23-Sep-21	5	Chemical Bonding-1	3	15-Sep-21	5	Sequence & Series	7	30-Sep-21			
6	Friction	4	04-Oct-21	6	Chemical Bonding-2	3	21-Sep-21	6	Matrices & Determinant	10	08-Oct-21			
7	Work, Power, Energy	7	08-Oct-21	7	Chemical Bonding-3	2	27-Sep-21	7	Straight Line	10	20-Oct-21			
8	Electrostatics	13	16-Oct-21	8	Chemical Bonding-4	1	29-Sep-21	8	Circle	7	11-Nov-21			
9	Gravitation	5	11-Nov-21	9	Chemical Bonding-5	4	30-Sep-21	9	Limits, Continuity & Derivability	11	19-Nov-21			
10	Current electricity	8	17-Nov-21	10	Chemical Equilibrium	6	07-Oct-21	10	Application of Derivatives	13	06-Dec-21			
11	Capacitance	8	26-Nov-21	11	Ionic Equilibrium (Elementary)	7	19-Oct-21	11	Mathematical Reasoning	3	23-Dec-21			
12	Circular motion	5	06-Dec-21	12	Coordination compounds	9	11-Nov-21	12	Conic Section	12	28-Dec-21			
13	Centre of mass	7	11-Dec-21	13	Electrochemistry	8	25-Nov-21	13	Indefinite Integration	6	13-Jan-22			
14	Rigid body dynamics	11	20-Dec-21	14	Metallurgy	3	09-Dec-21	14	Definite Integration & Its App.	11	21-Jan-22			
15	Simple Harmonic motion	6	01-Jan-22	15	Qualitative Analysis-I	4	15-Dec-21	15	Differential Equation	5	03-Feb-22			
16	String wave	5	08-Jan-22	16	p-Block(Halogen & Noble gases)	3	22-Dec-21	16	Vector & 3-D	13	09-Feb-22			
17	Sound wave	6	14-Jan-22	17	Chemical Kinetics	8	28-Dec-21	17	Complex Number	9	24-Feb-22			
18	Wave Optics	3	21-Jan-22	18	Solution & Colligative Properties	8	11-Jan-22	18	Solution of Triangle	3	07-Mar-22			
19	EM Wave	1	25-Jan-22	19	Solid State	7	25-Jan-22	19	Binomial Theorem	6	10-Mar-22			
20	Semiconductor	3	26-Jan-22	20	Surface Chemistry	4	07-Feb-22	20	Permutation & Combination	9	17-Mar-22			
21	POC	2	29-Jan-22	21	Qualitative Analysis-II	4	14-Feb-22	21	Probability	6	28-Mar-22			
22	EMF	7	01-Feb-22	22	s-Block	2	21-Feb-22							
23	EMI	5	09-Feb-22	23	p-Block(N & O)	4	23-Feb-22							
24	Alternating Current	3	15-Feb-22	24	Thermodynamics & Thermochem.	7	02-Mar-22							
25	Modern Physics-I	5	18-Feb-22	25	p-Block Elements (B&C Family)	3	15-Mar-22							
26	Nuclear Physics	4	24-Feb-22	26	Equivalent Concept	3	21-Mar-22							
27	Fluid Mechanics	5	01-Mar-22	27	d-Block Element	2	24-Mar-22							
28	Surface Tension	3	07-Mar-22	28	Ionic Equilibrium (Advance)	3	29-Mar-22							
29	Elasticity and viscosity	2	10-Mar-22											
30	KTG and thermodynamics	7	12-Mar-22											
31	Calorimetry & thermal expansion	3	21-Mar-22											
32	Heat transfer	3	24-Mar-22											
Total No. of Lectures				186	Total No. of Lectures				200	Total No. of Lectures				183

DPP Distribution Schedule

Date	Week	Module	Date	Week	Module
Monday, 2 August, 2021	W-1	A	Monday, 13 December, 2021	W-20	B

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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	Physical/ Inorganic	Chemistry		Mathematics
1	APT-1	JEE (Adv.)	29-08-2021 (Sunday)	08-09-2021 (Wednesday)	Mathematical Tools, Kinematics (Upto Rain Problems)	Mole Concept	IUPAC Nomenclature & Structural isomerism	Fundamentals of Mathematics (upto GIF-equations and inequations, GIF-graphs and sign (F _x))	6
2	MCT-1	JEE (Main)	19-09-2021 (Sunday)	29-09-2021 (Wednesday)	Kinematics, Geometrical Optics (Upto Prism)	Mole Concept, Quantum Mechanical model of atom (QMM), Periodic Table, Real Gases (upto Vander Waals Equations)	IUPAC Nomenclature & Structural isomerism, Structural Identification & POC-I, GOC-I (upto Application of electronic effect)	Fundamentals of Mathematics, Quadratic Equation	3
3	ACT-1	JEE (Adv.)	10-10-2021 (Sunday)	20-10-2021 (Wednesday)	Kinematics, Geometrical Optics, Newtons laws of motion	Mole Concept, Quantum Mechanical model of atom (QMM), Periodic Table, Real Gases, Chemical Bonding-1 to 4	IUPAC Nomenclature & Structural isomerism, Structural Identification & POC-I, GOC-I, GOC-II (upto Basic strength of organic compounds)	Fundamentals of Mathematics, Quadratic Equation, Relation Function IFF	6
4	APT-2	JEE (Adv.)	31-10-2021 (Sunday)	10-11-2021 (Wednesday)	Kinematics, Geometrical Optics, Newtons laws of motion, Friction, WPE, Electrostatics (Upto Potential difference, equipotential surface)	Quantum Mechanical model of atom (QMM), Periodic Table, Real Gases, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary) (upto Salt hydrolysis (WA+SB, SA+WB, WA+WB))	Structural Identification & POC-I, GOC-I, GOC-II	Quadratic Equation, Relation Function IFF, Sequence and Series, Matrices & Determinant - Straight Line (Locus Problem)	6
5	MCT-2	JEE (Main)	21-11-2021 (Sunday)	01-12-2021 (Wednesday)	Kinematics, Geometrical Optics, Newtons laws of motion, Friction, WPE, Electrostatics, Gravitation.	Mole Concept, Quantum Mechanical model of atom (QMM), Periodic Table, Real Gases, Chemical Bonding-1, Chemical Equilibrium, Ionic Equilibrium (Elementary)	IUPAC Nomenclature & Structural isomerism, Structural Identification & POC-I, GOC-I, GOC-II, Stereoisomerism (Mains)	FOM, Quadratic Equation, Relation Function IFF, Statistics, Sequence and Series - Matrices & Determinant, Straight Line	3
6	ACT-2	JEE (Adv.)	12-12-2021 (Sunday)	22-12-2021 (Wednesday)	Kinematics, Geometrical Optics, Newtons laws of motion, Friction, WPE, Electrostatics, Gravitation, Current electricity, Capacitance	Mole Concept, Quantum Mechanical model of atom (QMM), Periodic Table, Real Gases, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary), Coordination Compounds, Electrochemistry (upto Applications of electrolysis)	IUPAC Nomenclature & Structural isomerism, Structural Identification & POC-I, GOC-I, GOC-II, Stereoisomerism (Mains) & II Upto Electrolytic addition reaction of alkene (X ₂ , HOX, HOX ₂)	FOM, Quadratic Equation, Relation Function IFF, Sequence and Series, Matrices & Determinant, Straight Line, Circle, *Limits, Continuity & Derivability	6
7	APT-3	JEE (Adv.)	02-01-2022 (Sunday)	12-01-2022 (Wednesday)	Electrostatics, Gravitation, Current electricity, Capacitance, Circular Motion, Centre of mass, Rigid body dynamics (Upto Point of application of force and rotational equilibrium.)	Ionic Equilibrium (Elementary), Coordination Compounds, Electrochem., Metallurgy, Qualitative Analysis (Anion), p-Block(H & N)	Stereoisomerism (Mains), ORM-I, ORM-II, Reduction, Oxidation & Hydrolysis	Straight Line, Circle, *Limits, Continuity & Derivability, *Application of Derivatives	6
8	MCT-3	JEE (Main)	23-01-2022 (Sunday)	02-02-2022 (Wednesday)	Kinematics, Geometrical Optics, Newtons laws of motion, Friction, WPE, Electrostatics, Gravitation, Current electricity, Capacitance, Circular Motion, Centre of mass, RBD, SHM, String wave, Sound wave (Upto Pressure wave and speed of sound waves)	Mole Concept, Quantum Mechanical model of atom (QMM), Periodic Table, Real Gases, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary), Coordination Compounds, Electrochemistry, Metallurgy, p-Block(Halogen & Noble gases), Chemical Kinetics, Solution & Colligative Properties (upto Non-ideal Solutions, Immiscible Liquids)	IUPAC Nomenclature & Structural isomerism, Structural Identification & POC-I, GOC-I, GOC-II, Stereoisomerism (Mains), ORM-I, ORM-II, Reduction, Oxidation & Hydrolysis, ORM-III, ORM-IV	FOM, Quadratic Equation, Relation Function IFF, Statistics, Sequence and Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability, Application of Derivatives, Mathematical Reasoning, Conic Section, Indefinite Integration	3
9	ACT-3	JEE (Adv.)	13-02-2022 (Sunday)	23-02-2022 (Wednesday)	Kinematics, Geometrical Optics, Newtons laws of motion, Friction, WPE, Electrostatics, Gravitation, Current electricity, Capacitance, Circular Motion, Centre of mass, RBD, SHM, String wave, Sound wave, Wave Optics, EMW, Solid & semiconductor, EMF	Mole Concept, Quantum Mechanical model of atom (QMM), Periodic Table, Real Gases, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary), Coordination Compounds, Electrochemistry, Metallurgy, p-Block(Halogen & Noble gases), Chemical Kinetics, Solution & Colligative Properties, Solid State	IUPAC Nomenclature & Structural isomerism, Structural Identification & POC-I, GOC-I & II, Stereoisomerism (Mains), ORM-I, ORM-II, Reduction, Oxidation & Hydrolysis, ORM-III & IV, Aromatic Compound, Preparation of Hydrocarbon	FOM, Quadratic Equation, Relation Function IFF, Sequence and Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability, Application of Derivatives, Conic Section, Indefinite Integration, Definite Integration & Its Application, Differential Equation	6
10	APT-4	JEE (Adv.)	06-03-2022 (Sunday)	16-03-2022 (Wednesday)	RBD, SHM, String wave, Sound wave, Wave Optics, EMF, EMI, Alternating current, Modern Physics, Nuclear Physics	Chemical Kinetics, Solution & Colligative Properties, Solid State, Surface Chemistry, Qualitative Analysis (Cations)	ORM-III & IV, Aromatic Compound, Preparation of Hydrocarbon, Carbonyl compounds & Acid & derivatives	Conic Section, Indefinite Integration, Definite Integration & Its Application, Differential Equation, Vector & 3-D,	6
11	MT	JEE (Main)	03-04-2022 (Sunday)	13-04-2022 (Wednesday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
12	MT	JEE (Adv.)	10-04-2022 (Sunday)	13-04-2022 (Wednesday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	6
TOTAL TESTING HOURS									60

Note: 1. Students are advised to refer their notice board for test timings | 2. Their will be no classes on the preceding Saturday before every PTs/ CIs (except BPTs).

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