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COURSE PLANNER

CLASS-XII+ | VIJAY (02JRH / 03JR / 04JR/ 05JR)

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

Course Start: 16.08.2021 | Syllabus End: 26.03.2022

Target: JEE (Main+Advanced) 2022

TOTAL ACADEMIC HOURS

Course Duration: 32 Weeks

Total No. of Lectures: 533 (P: 178 | C: 177 | M: 178)

Duration of one lecture: 1.5 hrs = 90 minutes

Total Duration of Classroom Teaching: 800 hrs

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

Total Academic Hours in VIJAY Course: 860 hrs

SUBJECT WISE SYLLABUS PLAN

PHYSICS [P]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	Rectilinear Motion	5	16-Aug-21
2	Projectile Motion	3	23-Aug-21
3	Relative Motion	6	26-Aug-21
4	Geometrical Optics	17	07-Sep-21
5	Newton's laws of motion	9	04-Oct-21
6	Friction	5	14-Oct-21
7	Work, Power, Energy	7	20-Oct-21
8	Electrostatics	14	28-Oct-21
9	Gravitation	4	24-Nov-21
10	Current electricity	8	29-Nov-21
11	Capacitance	7	08-Dec-21
12	Circular motion	4	16-Dec-21
13	Centre of mass	6	21-Dec-21
14	Rigid body dynamics	11	28-Dec-21
15	Simple Harmonic motion	6	10-Jan-22
16	String wave	5	17-Jan-22
17	Sound wave	6	22-Jan-22
18	Wave Optics	3	29-Jan-22
19	EM Wave	1	02-Feb-22
20	Semiconductor	3	03-Feb-22
21	POC	2	07-Feb-22
22	EMF	7	09-Feb-22
23	EMI	5	17-Feb-22
24	Alternating current	3	23-Feb-22
25	Modern Physics–I	5	26-Feb-22
26	Nuclear Physics	4	04-Mar-22
27	Fluid Mechanics	4	09-Mar-22
28	Surface Tension	3	14-Mar-22
29	Elasticity and viscosity	2	17-Mar-22
30	KTG and thermodynamics	7	19-Mar-22
31	Calorimetry & Thermal Expansion	3	28-Mar-22
32	Heat transfer	3	31-Mar-22
Total No. of Lectures		**178**	

CHEMISTRY [C]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
	PHYSICAL/ INORGANIC		
1	Mole Concept	5	16-Aug-21
2	Quantum Mech. model of atom	1	31-Aug-21
3	Periodic Table	2	06-Sep-21
4	Real Gases	2	13-Sep-21
5	Chemical Bonding-1	3	20-Sep-21
6	Chemical Bonding-2	3	28-Sep-21
7	Chemical Bonding-3	2	05-Oct-21
8	Chemical Bonding-4	1	11-Oct-21
9	Chemical Bonding-5	2	12-Oct-21
10	Chemical Equilibrium	6	18-Oct-21
11	Ionic Equilibrium (Elementary)	6	11-Nov-21
12	Coordination compounds	9	22-Nov-21
13	Electrochemistry	7	07-Dec-21
14	Metallurgy	3	20-Dec-21
15	Qualitative Analysis-I	4	23-Dec-21
16	p-Block(Halogen & Noble gases)	2	30-Dec-21
17	Chemical Kinetics	7	04-Jan-22
18	Solution & Colligative Properties	7	17-Jan-22
19	Solid State	6	27-Jan-22
20	Surface Chemistry	3	08-Feb-22
21	Qualitative Analysis-II	4	14-Feb-22
22	s-Block	2	21-Feb-22
23	p-Block(N & O)	4	23-Feb-22
24	Thermodynamics & Thermochem.	8	02-Mar-22
25	p-Block Elements (B&C Family)	3	16-Mar-22
26	Equivalent Concept	2	22-Mar-22
27	d-Block Element	2	24-Mar-22
28	Ionic Equilibrium (Advance)	3	29-Mar-22
	ORGANIC		
1	IUPAC Nomenclature	3	16-Aug-21
2	Structural isomerism	1	24-Aug-21
3	Structure Identification & POC-I	1	30-Aug-21
4	GOC-I	7	31-Aug-21
5	GOC-II	7	27-Sep-21
6	Stereoisomerism (Mains)	4	12-Oct-21
7	ORM-I	4	20-Oct-21
8	ORM-II	6	11-Nov-21
9	Reduction, Oxidation & Hydrolysis	4	30-Nov-21
10	ORM-III	4	14-Dec-21
11	ORM-IV	3	28-Dec-21
12	Aromatic Compound	5	10-Jan-22
13	Hydrocarbon	1	25-Jan-22
14	Carbonyl compounds	5	31-Jan-22
15	Acid & derivatives	3	15-Feb-22
16	Biomolecules & Polymers	4	28-Feb-22
17	Stereoisomerism (Advanced)	3	14-Mar-22
18	Phy.prop.& Chem. In Everyday Life	3	22-Mar-22
Total No. of Lectures		**177**	

MATHEMATICS [M]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	Fundamentals of Mathematics	15	16-Aug-21
2	Quadratic Equation	8	08-Sep-21
3	Relation, Function & ITF	13	22-Sep-21
4	Statistics	3	09-Oct-21
5	Sequence & Series	6	13-Oct-21
6	Matrices & Determinant	10	20-Oct-21
7	Straight Line	10	11-Nov-21
8	Circle	8	23-Nov-21
9	Limits, Continuity & Derivability	11	02-Dec-21
10	Application of Derivatives	13	15-Dec-21
11	Mathematical Reasoning	3	30-Dec-21
12	Conic Section	12	03-Jan-22
13	Indefinite Integration	6	17-Jan-22
14	Definite Integration & Its App.	11	24-Jan-22
15	Differential Equation	5	05-Feb-22
16	Vector & 3-D	13	11-Feb-22
17	Complex Number	9	26-Feb-22
18	Solution of Triangle	3	09-Mar-22
19	Binomial Theorem	5	12-Mar-22
20	Permutation & Combination	8	18-Mar-22
21	Probability	6	28-Mar-22
Total No. of Lectures		**178**	

DPP Distribution Schedule

Date	Week	Module	Date	Week	Module
Monday, 16 August, 2021	W-1	A	Monday, 27 December, 2021	W-20	B

RESONANCE EDUVENTURES LTD.

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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	Chemistry		Mathematics	
						Physical/ Inorganic	Organic		
1	APT-1	JEE (Adv.)	05-09-2021 (Sunday)	15-09-2021 (Wednesday)	Rectilinear Motion, Projectile Motion	Mole Concept (upto Basics of oxidation number, Balancing redox reactions.)	IUPAC Nomenclature & Structural isomerism	Fundamentals of Mathematics (utp Logrithmic graphs and inequalities)	6
2	MCT-1	JEE (Main)	26-09-2021 (Sunday)	06-10-2021 (Wednesday)	Kinematics, GO (Upto Mirror formula)	Mole Concept, Quantum Mechanical model of atom (QMM), Periodic Table, Real Gases	IUPAC Nomenclature, Structural isomerism, Structure Identification & POC-I, GOC-I (upto Application of electronic effect)	Fundamentals of Mathematics, Quadratic Equation	3
3	ACT-1	JEE (Adv.)	17-10-2021 (Sunday)	27-10-2021 (Wednesday)	Kinematics, GO, NLM	Mole Concept, Quantum Mechanical model of atom (QMM), Periodic Table, Real Gases, Chemical Bonding-1 to 3	IUPAC Nomenclature, Structural isomerism, Structure Identification & POC-I, GOC-I & GOC-II	Fundamentals of Mathematics, Quadratic Equation, Relation Function ITF	6
4	APT-2	JEE (Adv.)	31-10-2021 (Sunday)	10-11-2021 (Wednesday)	Relative Motion, GO, NLM, Friction, WPE (Upto Conservative and non conservative forces)	Mole Concept, Quantum Mechanical model of atom (QMM), Periodic Table, Real Gases, Chemical Bonding, Chemical Equilibrium (upto Properties of equilibrium Constant, Reaction quotient and Its applications)	Structural isomerism, Structure Identification & POC-I, GOC-I & GOC-II, Stereoisomerism (Mains)	Quadratic Equation, Relation Function ITF, Sequence and Series, Matrices and Determinant (Up to Homogeneous equations)	6
5	MCT-2	JEE (Main)	21-11-2021 (Sunday)	01-12-2021 (Wednesday)	Kinematics, GO, NLM, Friction, WPE, Electrostatics (Upto Electric potential due to ring, disc, hollow sphere, solid sphere.)	Mole Concept, Quantum Mechanical model of atom (QMM), Periodic Table, Real Gases, Chemical Bonding-1, Chemical Equilibrium, Ionic Equilibrium (Elementary) (upto pH calculation of Acids & Bases)	IUPAC Nomenclature, Structural isomerism, Structure Identification & POC-I, GOC-I, GOC-II, Stereoisomerism (Mains), ORM-I	FOM, Quadratic Equation, Relation Function ITF, Statistics, Sequence and Series , Matrices & Determinant	3
6	ACT-2	JEE (Adv.)	12-12-2021 (Sunday)	22-12-2021 (Wednesday)	Kinematics, GO, NLM, Friction, WPE, Electrostatics, Gravitation, Current Electricity	Mole Concept, Quantum Mechanical model of atom (QMM), Periodic Table, Real Gases, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary), Coordination Compounds	IUPAC Nomenclature, Structural isomerism, Structure Identification & POC-I, GOC-I, GOC-II, Stereoisomerism (Mains), ORM-I & II	FOM, Quadratic Equation, Relation Function ITF, Sequence and Series, Matrices & Determinant, Straight Line, Circle	6
7	APT-3	JEE (Adv.)	02-01-2022 (Sunday)	12-01-2022 (Wednesday)	WPE, Electrostatics, Gravitation, Current Electricity, Capacitance, Circular motion, Centre of mass	Chemical Equilibrium, Ionic Equilibrium (Elementary), Coordination Compounds, Electrochemistry, Metallurgy	ORM-I & II, Reduction, Oxidation & Hydrolysis, ORM-III	Matrices and Determinant, Straight Line, Circle, Limits, Continuity & Derivability, Application of Derivatives	6
8	MCT-3	JEE (Main)	23-01-2022 (Sunday)	02-02-2022 (Wednesday)	Kinematics, GO, NLM, Friction, WPE, Electrostatics, Gravitation, Current Electricity, Capacitance, Circular motion, Centre of mass, RBD, SHM	Mole Concept, Quantum Mechanical model of atom (QMM), Periodic Table, Real Gases, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary), Coordination Compounds, Electrochemistry, Metallurgy, Qualitative Analysis-I, p-Block(Halogen & Noble gases), Chemical Kinetics	IUPAC Nomenclature, Structural isomerism, Structure Identification & POC-I, GOC-I, GOC-II, Stereoisomerism (Mains), ORM-I & II, Reduction, Oxidation & Hydrolysis, ORM-III & IV	FOM, Quadratic Equation, Relation Function ITF, Statistics, Sequence and Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability, Application of Derivatives, Mathematical Reasoning, Conic Section	3
9	ACT-3	JEE (Adv.)	13-02-2022 (Sunday)	23-02-2022 (Wednesday)	Kinematics, GO, NLM, Friction, WPE, Electrostatics, Gravitation, Current Electricity, Capacitance, Circular motion, Centre of mass, RBD, SHM, String wave, Sound wave, Wave Optics, EMW, Semicondcutor.	Mole Concept, Quantum Mechanical model of atom (QMM), Periodic Table, Real Gases, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary), Coordination Compounds, Electrochemistry, Metallurgy, Qualitative Analysis-I, p-Block(Halogen & Noble gases), Chemical Kinetics, Solution & Colligative Properties	IUPAC Nomenclature, Structural isomerism, Structure Identification & POC-I, GOC-I, GOC-II, Stereoisomerism (Mains), ORM-I & II, Reduction, Oxidation & Hydrolysis, ORM-III & IV, Aromatic Compounds, Hydrocarbon, Carbonyl Compounds (upto Nucleophilic addition reaction, Addition of ROH, NH3 and its derivatives, Beckmann rearrangement.)	FOM, Quadratic Equation, Relation Function ITF, Sequence and Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability, Application of Derivatives, Conic Section, Indefinite Integration, Definite Integration & Its Application	6
10	APT-4	JEE (Adv.)	06-03-2022 (Sunday)	16-03-2022 (Wednesday)	RBD, SHM, String wave, Sound wave, Wave Optics, EMW, Semicondcutor, POC, EMF, EMI, AC, Modern Physics (Upto Bohr's theory)	Qualitative Analysis-I & II, p-Block(Halogen & Noble gases), Chemical Kinetics, Solution & Colligative Properties, Solid State, Surface Chemistry	ORM-IV, Aromatic Compounds, 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/ CTs (except BPTs).
3. Student can submit their request to Result Section for re-evaluation in two working days after first display of result.