

# COURSE PLANNER

CLASS-XII | VISHWAAS (01JF)

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

Course Start: 05.04.2021 | Syllabus End: 31.12.2021

Target: JEE (Main+Advanced) 2022

## TOTAL ACADEMIC HOURS

- ♦ Course Duration: 38 Weeks
- ♦ Total Number of Lectures: 569 (P:184 | C: 192 | M: 193)
- ♦ 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/AIOT): 48 hrs
- ♦ Total Academic Hours in VISHWAAS Course: 902 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	8	05-Apr-21	PHYSICAL/ INORGANIC			1	Fundamentals of Mathematics	13	05-Apr-21			
2	Geometrical optics	20	15-Apr-21	1	Mole Concept & Gaseous State	7	05-Apr-21	2	Quadratic Equation	6	22-Apr-21		
3	Electrostatics	20	13-May-21	2	Solid State	7	20-Apr-21	3	Relation, Function & ITF	15	30-Apr-21		
4	Gravitation	3	14-Jun-21	3	Solution & Colligative Properties	8	05-May-21	4	Limits, Continuity & Derivability	13	24-May-21		
5	Current Electricity	10	17-Jun-21	4	Atomic Structure, Quantum Num.	4	25-May-21	5	Method of Differentiation	3	14-Jun-21		
6	Capacitance	7	01-Jul-21	5	Periodic Table & Properties	2	02-Jun-21	6	Straight Line + SOT	10	17-Jun-21		
7	EMF	10	12-Jul-21	6	BIN	1	08-Jun-21	7	Circle	5	01-Jul-21		
8	EMI	10	23-Jul-21	7	Periodic Table & Properties & BIN	1	09-Jun-21	8	Application of Derivatives	14	08-Jul-21		
9	Alternating Current	4	06-Aug-21	8	Chemical Bonding	8	14-Jun-21	9	Indefinite Integration	8	27-Jul-21		
10	Modern Physics-I	5	11-Aug-21	9	Coordination Compounds	9	06-Jul-21	10	Definite Integration & Its App.	16	06-Aug-21		
11	Nuclear Physics	5	19-Aug-21	10	Chemical Kinetics & Radioactivity	8	27-Jul-21	11	Sequence & Series	5	26-Aug-21		
12	Wave Optics	5	28-Aug-21	11	Surface Chemistry	2	23-Aug-21	12	Statistics	2	01-Sep-21		
13	Electromagnetic Waves	1	06-Sep-21	12	Chemical Equilibrium	4	25-Aug-21	13	Differential Equation	6	06-Sep-21		
14	Semiconductors	4	07-Sep-21	13	Electrochemistry	10	06-Sep-21	14	Matrices & Determinant	11	13-Sep-21		
15	Principle of communication	2	11-Sep-21	14	Metallurgy	3	23-Sep-21	15	Vector & 3-D	15	27-Sep-21		
16	Rectilinear Motion	4	14-Sep-21	15	Ionic Equilibrium	6	29-Sep-21	16	Mathematical Reasoning	3	21-Oct-21		
17	Projectile Motion	2	20-Sep-21	16	p-block Elements (N & O Gases)	4	18-Oct-21	17	Linear Programming	2	25-Oct-21		
18	Relative Motion	3	22-Sep-21	17	p-block Elements (H & N Gases)	2	25-Oct-21	18	Binary Operation	1	27-Oct-21		
19	NLM & Friction	6	25-Sep-21	18	Real Gases	4	27-Oct-21	19	Binomial Theorem	5	28-Oct-21		
20	Work, Power & Energy	5	02-Oct-21	19	Thermodynamics & Thermochem.	8	15-Nov-21	20	Permutation & Combination	8	13-Nov-21		
21	Circular Motion	5	08-Oct-21	20	Equivalent Concept	3	30-Nov-21	21	Probability	7	24-Nov-21		
22	Centre of Mass	6	14-Oct-21	21	p-block Elements (B & C Family)	4	06-Dec-21	22	Complex Number	9	02-Dec-21		
23	Rigid Body Dynamics	7	25-Oct-21	22	Qualitative Analysis	4	13-Dec-21	23	Conic Section	16	13-Dec-21		
24	Simple Harmonic Motion	5	16-Nov-21	23	s-Block elements	2	21-Dec-21						
25	String Waves	5	23-Nov-21	24	d & f-Block elements	3	23-Dec-21						
26	Sound Waves	5	29-Nov-21	ORGANIC			1	IUPAC Nomenclature	6	05-Apr-21			
27	Fluids	4	04-Dec-21	2	Structural Isomerism	2	26-Apr-21	2	Structural Isomerism	2	26-Apr-21		
28	Calorimetry & Thermal Expansion	3	09-Dec-21	3	Structural Identification & POC	3	03-May-21	3	Structural Identification & POC	3	03-May-21		
29	KTG & Thermodynamics	5	13-Dec-21	4	GOC-I	7	17-May-21	4	GOC-I	7	17-May-21		
30	Heat Transfer	2	20-Dec-21	5	GOC-II	7	14-Jun-21	5	GOC-II	7	14-Jun-21		
31	Elasticity & Viscosity	1	22-Dec-21	6	Mains Stereoisomerism	4	30-Jun-21	6	Mains Stereoisomerism	4	30-Jun-21		
32	Surface Tension	2	23-Dec-21	7	ORM-I	6	13-Jul-21	7	ORM-I	6	13-Jul-21		
	<b>Total No. of Lectures</b>	<b>184</b>		8	ORM-II	7	28-Jul-21	8	ORM-II	7	28-Jul-21		
				9	Reduction, Oxidation & Hydrolysis	1	16-Aug-21	9	Reduction, Oxidation & Hydrolysis	1	16-Aug-21		
				10	ORM-III	6	17-Aug-21	10	ORM-III	6	17-Aug-21		
				11	ORM-IV	5	06-Sep-21	11	ORM-IV	5	06-Sep-21		
				12	Aromatic Compound	5	21-Sep-21	12	Aromatic Compound	5	21-Sep-21		
				13	Carbonyl Compounds	6	18-Oct-21	13	Carbonyl Compounds	6	18-Oct-21		
				14	Carboxylic Acid & Acid Derivatives	2	16-Nov-21	14	Carboxylic Acid & Acid Derivatives	2	16-Nov-21		
				15	Biomolecules & Polymers	5	23-Nov-21	15	Biomolecules & Polymers	5	23-Nov-21		
				16	Organ.React.involving Stereochem.	2	13-Dec-21	16	Organ.React.involving Stereochem.	2	13-Dec-21		
				17	Chem. in Everyday Life, Phy.Prop.& POC-II	1	20-Dec-21	17	Chem. in Everyday Life, Phy.Prop.& POC-II	1	20-Dec-21		
				18	Physical properties & POC-II	3	21-Dec-21	18	Physical properties & POC-II	3	21-Dec-21		
					<b>Total No. of Lectures</b>	<b>192</b>			<b>Total No. of Lectures</b>	<b>193</b>			

## DPP Distribution Schedule

Date	Week	Module	Date	Week	Module
Monday, 5 April, 2021	W-1	A	Monday, 06 September, 2021	W-23	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	Chemistry			Mathematics
						Physical/ Inorganic	Organic		
1	APT-1	JEE (Adv.)	16-05-2021 (Sunday)	26-05-2021 (Wednesday)	Mathematical Tools, Geometrical Optics Complete.	Mole Concept & Gaseous State, Solid State (upto Vacids)	IUPAC Nomenclature, Structural Isomerism	FOM, Quadratic Equation	6
2	MCT-1	JEE (Main)	30-05-2021 (Sunday)	09-06-2021 (Wednesday)	Mathematical Tools, Geometrical Optics, Electrostatics upto Electric field intensity Complete.	Mole Concept & Gaseous State, Solid State, Solution & Colligative Properties (upto RVP, DTb & DTb)	IUPAC Nomenclature, Structural Identification & POC, GOC-I (Inductive Effect & condition of Resonance)	FOM, Set, Quadratic Equation, Relation, Function & IIF	3
3	APT-2	JEE (Adv.)	04-07-2021 (Sunday)	14-07-2021 (Wednesday)	Mathematical Tools, Geometrical Optics, Electrostatics, Current Electricity.	Solid state, Solution & Colligative Properties, Atomic Structure, Quantum Number, Periodic Table, BIN, Chemical Bonding (upto VSEPR and Hybridisation)	GOC-I & GOC-II (upto acidic strength)	Function & IIF, Limits, Continuity & Derivability, MOD, Straight Line + SOT	6
4	MCT-2	JEE (Main)	25-07-2021 (Sunday)	04-08-2021 (Wednesday)	Mathematical Tools, Geometrical Optics, Electrostatics, Gravitation, Current electricity, Capacitance.	Mole Concept & Gaseous State, Solid State, Solution & Colligative Properties, Atomic Structure, Quantum Number, Periodic Table, BIN, Chemical Bonding	GOC-I, GOC-II, Mains Stereoisomerism (Complete)	FOM, Set, Quadratic Equation, Relation, Function & IIF, Limits, Continuity & Derivability, MOD, Straight Line + SOT, Circle	3
5	ACT-1	JEE (Adv.)	29-08-2021 (Sunday)	08-09-2021 (Wednesday)	Mathematical Tools, Geometrical Optics, Electrostatics, Gravitation, Current electricity, Capacitance, EMF, EMI & AC, EMI upto self inductance.	Mole Concept & Gaseous State, Solid State, Solution & Colligative Properties, Atomic Structure, Quantum Number, Periodic Table, BIN, Chemical Bonding, Coordination Compounds	GOC-I, GOC-II, Mains Stereoisomerism, ORM-I	FOM, Quadratic Equation, Function & IIF, Limits, Continuity & Derivability, MOD, Straight Line + SOT, Circle, ADD, Indefinite Integration	6
6	APT-3	JEE (Adv.)	19-09-2021 (Sunday)	29-09-2021 (Wednesday)	Geometrical Optics, Electrostatics, Gravitation, Current Electricity, Capacitance, EMF, EMI & AC, Modern Physics & Nuclear Physics.	Chemical Bonding, Coordination Compounds, Chemical Kinetics & Radioactivity, Surface Chemistry, Chemical Equilibrium, Electrochemistry (upto Concentration cell)	Paper-1 according to O7, JF & Paper-2, ORM-I, ORM-II, Reduction, Oxidation & Hydrolysis & ORM-III	Circle, ADD, Indefinite Integration, Definite Integration & Its Application, Sequence & Series, Differential Equation	6
7	ACT-2	JEE (Adv.)	17-10-2021 (Sunday)	27-10-2021 (Wednesday)	Geometrical Optics, Electrostatics, Gravitation, Current Electricity, Capacitance, EMF, EMI & AC, Modern Physics, Nuclear Physics, Wave Optics, Electromagnetic Waves, Semiconductors, Rectilinear Motion, Projectile Motion, Relative Motion.	Mole Concept & Gaseous State, Solid State, Solution & Colligative Properties, Atomic Structure, Quantum Number, Periodic Table, BIN, Chemical Bonding, Coordination Compounds, Chemical Kinetics & Radioactivity, Chemical Equilibrium, Electrochemistry, Metallurgy, Ionic Equilibrium (upto Acid base theory, Dissociation of water, pH scale)	Paper-1 according to O7, JF & Paper-2, GOC-I, GOC-II, Mains Stereoisomerism, ORM-I, ORM-II, Reduction, Oxidation & Hydrolysis, ORM-III & ORM-IV	FOM, Quadratic Equation, Function & IIF, Limits, Continuity & Derivability, MOD, Straight Line + SOT, Circle, ADD, Indefinite Integration, Definite Integration & Its Application, Sequence & Series, Differential Equation, Matrices & Determinant	6
8	MCT-3	JEE (Main)	21-11-2021 (Sunday)	01-12-2021 (Wednesday)	EMI, AC, Modern Physics, Nuclear Physics, Wave Optics, Semiconductor, POC, Electromagnetic Waves, Rectilinear Motion, Projectile Motion, Relative Motion, NLM, Friction, WPE, Circular Motion, Centre of mass, RBD.	Mole Concept & Gaseous State, Solid State, Solution & Colligative Properties, Atomic Structure, Quantum Number, Periodic Table, BIN, Chemical Bonding, Coordination Compounds, Chemical Kinetics & Radioactivity, Chemical Equilibrium, Electrochemistry, Metallurgy, Ionic Equilibrium, p-block (15 to 18) & Real Gases	ORM-I, ORM-II, Reduction, Oxidation compounds, Carbonyl Compounds upto aldd)	FOM, Set, Quadratic Equation, Relation, Function & IIF, Limits, Continuity & Derivability, MOD, Straight Line + SOT, Circle, ADD, Indefinite Integration, Definite Integration & Its Application, Sequence & Series, Statistics, Differential Equation, Matrices & Determinant, Vector & 3-D, Mathematical Reasoning, Binomial Theorem	3
9	APT-4	JEE (Adv.)	19-12-2021 (Sunday)	29-12-2021 (Wednesday)	Rectilinear Motion, Projectile Motion, Relative Motion, NLM, Friction, WPE, Circular Motion, Centre of mass, RBD, SHM, Fluid Mechanics, Calorimetry & Thermal Expansion, KTG & Thermodynamics.	Electrochemistry, Metallurgy, Ionic Equilibrium, p-block Elements (15 to 18 groups), Real Gases & Thermodynamics & thermochemistry, Equivalent concept, p-block Elements (B & C Family)	ORM-II, Reduction, Oxidation & Hydrolysis, ORM-III & IV, Aromatic compounds, Carbonyl Compounds, Carboxylic Acid, Acid Derivatives & Biomolecules	Matrices & Determinant, Vector & 3-D, Binomial Theorem, P & C, Probability, Complex Number	6
10	MIMT	JEE (Main)	26-12-2021 (Sunday)	29-12-2021 (Wednesday)	XI Syllabus	XI Syllabus	XI Syllabus	XI Syllabus	3
<b>TOTAL TESTING HOURS</b>								<b>48</b>	

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.