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COURSE PLANNER

CLASS-XI | VIKAAS (12JA / 13JA / 14JA)

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

Course Start: 26.07.2021 | Syllabus End: 19.02.2022

Target: JEE (Main+Advanced) 2023

TOTAL ACADEMIC HOURS

Course Duration: 30 Weeks

Total No. of Lectures: 453 (P: 141 | C: 171 | M: 141)

Duration of one lecture: 1.5 hrs = 90 minutes

Total Duration of Classroom Teaching: 680 hrs

Total Duration of Testing Hours (ACTs/APTs/MCTs/MT/AIOT): 41 hrs

Total Academic Hours in VIKAAS Course: 721 hrs

SUBJECT WISE SYLLABUS PLAN

PHYSICS [P]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	Mathematical Tools	15	26-Jul-21
2	Rectilinear Motion	5	23-Aug-21
3	Projectile Motion	6	01-Sep-21
4	Relative Motion	7	13-Sep-21
5	NLM	10	23-Sep-21
6	Friction	5	08-Oct-21
7	Work, Power & Energy	9	15-Oct-21
8	Circular Motion	7	28-Oct-21
9	Centre of Mass	10	17-Nov-21
10	Rigid Body Dynamics	14	01-Dec-21
11	Simple Harmonic Motion	8	21-Dec-21
12	Fluids	5	30-Dec-21
13	Surface Tension	2	05-Jan-22
14	Elasticity and viscosity	3	07-Jan-22
15	String waves	9	11-Jan-22
16	Sound Waves	8	21-Jan-22
17	KTG & Thermodynamics	9	31-Jan-22
18	Calorimetry & Thermal Expansion	4	10-Feb-22
19	Measurement & Error	3	15-Feb-22
20	Unit & Dimension	2	18-Feb-22
Total No. of Lectures		141	

CHEMISTRY [C]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
	PHYSICAL/ INORGANIC		
1	Introduction to Chemistry	4	26-Jul-21
2	Atomic Structure	14	02-Aug-21
3	Mole Concept	10	15-Sep-21
4	Gaseous State-1	10	04-Oct-21
5	Gaseous State-2	6	20-Oct-21
6	Chemical Equilibrium	8	11-Nov-21
7	Thermodynamics & Thermochem.	15	24-Nov-21
8	s-Block	5	21-Dec-21
9	p-Block (13-14 groups)	6	29-Dec-21
10	Ionic Equilibrium (Elementary)	10	10-Jan-22
11	Ionic Equilibrium (Advanced)	8	01-Feb-22
	ORGANIC		
1	IUPAC Nomenclature	10	26-Jul-21
2	Structural Isomerism	4	30-Aug-21
3	Structural identification	4	13-Sep-21
4	POC-I	6	20-Sep-21
5	Periodic Table	7	05-Oct-21
6	BIN	4	20-Oct-21
7	Chemical Bonding	22	11-Nov-21
8	GOC-I	8	10-Jan-22
9	GOC-II	9	26-Jan-22
10	Environmental Chemistry	1	16-Feb-22
Total No. of Lectures		171	

MATHEMATICS [M]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	Fundamentals of Mathematics-I	16	26-Jul-21
2	Quadratic Equation	13	24-Aug-21
3	Trigonometry	15	20-Sep-21
4	Sequence & Series	11	11-Oct-21
5	Mathematical Reasoning	4	26-Oct-21
6	Fundamentals of Mathematics-II	7	11-Nov-21
7	Binomial Theorem	9	19-Nov-21
8	Permutation & Combination	11	02-Dec-21
9	Straight Line	12	17-Dec-21
10	Solution of Triangle	7	01-Jan-22
11	Statistics	4	10-Jan-22
12	Circle	11	14-Jan-22
13	Conic Section	19	27-Jan-22
14	Revision	2	
Total No. of Lectures		141	

DPP DISTRIBUTION SCHEDULE

S.No.	Date	Week	Module
1	Monday, 26 July, 2021	W-1	A
2	Monday, 11 October, 2021	W-12	B
3	Monday, 13 December, 2021	W-21	C

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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	
1	APT-1	JEE (Adv.)	29-08-2021 (Sunday)	08-09-2021 (Wednesday)	Mathematical Tools	Introduction to Chemistry, Atomic Structure (upto Bohr's Atomic Model)	IUPAC-Nomenclature of chain terminating Functional groups (Esters & Anhydride)	Fom-1, Quadratic Equation Upto Nature Of Roots	6
2	MCT-1	JEE (Main)	19-09-2021 (Sunday)	29-09-2021 (Wednesday)	Mathematical Tools, Rectilinear motion, Projectile Motion, Relative motion, NLM (Upto Tension, Normal force, System F.B.D.)	Introduction to Chemistry, Atomic Structure	IUPAC Nomenclature & Structural Isomerism & Structural identification	FOM-I, Quadratic Equation, Trigonometry (Sum of sine and Cosine)	3
3	ACT-1	JEE (Adv.)	10-10-2021 (Sunday)	20-10-2021 (Wednesday)	Rectilinear motion, Projectile Motion, Relative motion, NLM, Friction, WPE (upto Work done By variable forces, area under the graph)	Atomic Structure, Mole Concept	IUPAC Nomenclature & Structural Isomerism & Structural identification, POC-I, Periodic Table (upto Effective Nuclear Charge (Z effective))	FOM-I , Quadratic Equation, Trigonometry, Sequence and Series	6
4	APT-2	JEE (Adv.)	31-10-2021 (Sunday)	10-11-2021 (Wednesday)	Mathematical Tools, Rectilinear motion, Projectile Motion, Relative motion, NLM, Friction, WPE, Circular Moiton, Centre of mass (upto Calculation of centre of mass)	Introduction to chemistry, Atomic Structure, Mole Concept, Gaseous State (Ideal Gases)	IUPAC Nomenclature & Structural Isomerism & Structural identification, POC-I, Periodic Table, BIN	FOM-I, Quadratic Equation, Trigonometry, Sequence and Series, Mathematical Reasoning, FOM-II	6
5	MCT-2	JEE (Main)	28-11-2021 (Sunday)	08-12-2021 (Wednesday)	Mathematical Tools, Rectilinear motion, Projectile Motion, Relative motion, NLM, Friction, WPE, Circular Moiton, Centre of mass, RBD (Upto equilibrium)	Introduction to chemistry, Atomic Structure, Mole Concept, Gaseous State (Ideal & Real Gases), Chemical Equilibrium	IUPAC Nomenclature & Structural Isomerism & Structural identification, POC-I, Periodic Table, BIN, Chemical Bonding-1 & 2 (upto Multicentered species)	FOM-I, Quadratic Equation, Trigonometry, Sequence and Series, FOM-II, Binomial Theorem, Permutation and Combination (Up to Formation of group)	3
6	ACT-2	JEE (Adv.)	19-12-2021 (Sunday)	29-12-2021 (Wednesday)	WPE, Circular Moiton, Centre of mass, RBD complete	Gaseous State (Ideal & Real Gases), Chemical Equilibrium, Thermodynamic & Thermochemistry (upto Ist Law)	Periodic Table, BIN, Chemical Bonding-1 & 2	Binomial Theorem, Permutation and Combination, Straight Line (up to Locus)	6
7	APT-3	JEE (Adv.)	09-01-2022 (Sunday)	19-01-2022 (Wednesday)	Mathematical Tools, Rectilinear motion, Projectile Motion, Relative motion, NLM, Friction, WPE, Circular Moiton, Centre of mass, RBD, SHM, Fluid.	Introduction to chemistry, Atomic Structure, Mole Concept, Gaseous State (Ideal & Real Gases), Chemical Equilibrium, Thermodynamic & Thermochemistry, s-block elements	IUPAC Nomenclature & Structural Isomerism & Structural identification, POC-I, Periodic Table, BIN, Chemical Bonding	FOM-I, Quadratic Equation, Trigonometry, Sequence and Series, Mathematical Reasoning, FOM-II, Binomial Theorem, Permutation and Combination , Straight Line, Solution of Triangle	6
8	MCT-3	JEE (Main)	30-01-2022 (Sunday)	09-02-2022 (Wednesday)	Mathematical Tools, Rectilinear motion, Projectile Motion, Relative motion, NLM, Friction, WPE, Circular Moiton, Centre of mass, RBD, SHM, Fluid, Surface Tension, Elasticity & Viscosity, String wave	Introduction to chemistry, Atomic Structure, Mole Concept, Gaseous State (Ideal & Real Gases), Chemical Equilibrium, Thermodynamic & Thermochemistry, s-block elements, p-block elements (13 & 14 groups), Ionic Equilibrium (Elementary) (upto pH Calculation of WA,WB (Ostwald's dilution law))	IUPAC Nomenclature & Structural Isomerism & Structural identification, POC-I, Periodic Table, BIN, Chemical Bonding, GOC-I	FOM-I, Quadratic Equation, Trigonometry, Sequence and Series, FOM-II, Binomial Theorem, Permutation and Combination, Straight Line, Solution of Triangle, Circle	3
9	MT	JEE (Main)	27-02-2022 (Sunday)	02-03-2022 (Wednesday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
								TOTAL TESTING HOURS	**42**

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.