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COURSE PLANNER

CLASS-XI | VIKAAS (15JA / 16JA / 17JA)

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

Course Start: 16.08.2021 | Syllabus End: 26.02.2022

Target: JEE (Main+Advanced) 2023

TOTAL ACADEMIC HOURS

Course Duration: 28 Weeks

Total No. of Lectures: 439 (P: 137 | C: 165 | M: 137)

Duration of one lecture: 1.5 hrs = 90 minutes

Total Duration of Classroom Teaching: 659 hrs

Total Duration of Testing Hours (ACTs/APTs/MCTs/MT/AIOT): 42 hrs

Total Academic Hours in VIKAAS Course: 701 hrs

SUBJECT WISE SYLLABUS PLAN

PHYSICS [P]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	Mathematical Tools	12	16-Aug-21
2	Rectilinear Motion	7	13-Sep-21
3	Projectile Motion	7	23-Sep-21
4	Relative Motion	7	01-Oct-21
5	NLM	10	09-Oct-21
6	Friction	5	21-Oct-21
7	Work, Power & Energy	9	27-Oct-21
8	Circular Motion	7	18-Nov-21
9	Centre of Mass	10	26-Nov-21
10	Rigid Body Dynamics	14	08-Dec-21
11	Simple Harmonic Motion	8	24-Dec-21
12	Fluids	5	03-Jan-22
13	Surface Tension	2	08-Jan-22
14	Elasticity and viscosity	3	11-Jan-22
15	String waves	8	14-Jan-22
16	Sound Waves	8	26-Jan-22
17	KTG & Thermodynamics	8	07-Feb-22
18	Calorimetry & Thermal Expansion	3	17-Feb-22
19	Measurement & Error	2	21-Feb-22
20	Unit & Dimension	2	23-Feb-22
Total No. of Lectures		137	

CHEMISTRY [C]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
	PHYSICAL/ INORGANIC		
1	Introduction to Chemistry	5	16-Aug-21
2	Atomic Structure	15	31-Aug-21
3	Mole Concept	11	12-Oct-21
4	Gaseous State (Ideal Gases)	8	11-Nov-21
5	Gaseous State (Real Gases)	5	24-Nov-21
6	Chemical Equilibrium	8	02-Dec-21
7	Thermodynamics & Thermochem.	14	16-Dec-21
8	s-Block	5	11-Jan-22
9	p-Block (13-14 groups)	6	19-Jan-22
10	Ionic Equilibrium (Elementary)	10	31-Jan-22
11	Ionic Equilibrium (Advanced)	6	16-Feb-22
	ORGANIC		
1	IUPAC Nomenclature	10	16-Aug-21
2	Structural Isomerism	4	20-Sep-21
3	Structural identification	4	28-Sep-21
4	POC-I	7	06-Oct-21
5	Periodic Table	6	11-Nov-21
6	BIN	2	23-Nov-21
7	Chemical Bonding	22	29-Nov-21
8	GOC-I	8	18-Jan-22
9	GOC-II	8	07-Feb-22
10	Environmental Chemistry	1	23-Feb-22
Total No. of Lectures		165	

MATHEMATICS [M]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	Fundamentals of Mathematics-I	16	16-Aug-21
2	Quadratic Equation	13	20-Sep-21
3	Trigonometry	15	05-Oct-21
4	Sequence & Series	11	22-Oct-21
5	Mathematical Reasoning	3	15-Nov-21
6	Fundamentals of Mathematics-II	7	18-Nov-21
7	Binomial Theorem	7	29-Nov-21
8	Permutation & Combination	10	08-Dec-21
9	Straight Line	12	22-Dec-21
10	Solution of Triangle	7	07-Jan-22
11	Statistics	3	17-Jan-22
12	Circle	12	20-Jan-22
13	Conic Section	19	03-Feb-22
14	Revision	2	25-Feb-22
Total No. of Lectures		137	

DPP DISTRIBUTION SCHEDULE

S.No.	Date	Week	Module
1	Monday, 16 August, 2021	W-1	A
2	Monday, 8 November, 2021	W-13	B
3	Monday, 3 January, 2022	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.)	12-09-2021 (Sunday)	22-09-2021 (Wednesday)	Mathematical Tools	Introduction to Chemistry	IUPAC-Nomenclature of Alkenes, alkynes, Cycloalkene and polyene	FOM-I (up to method interval)	6
2	MCT-1	JEE (Main)	03-10-2021 (Sunday)	13-10-2021 (Wednesday)	Mathematical Tools, Rectilinear motion, Projectile Motion (Projectile from tower)	Introduction to Chemistry, Atomic Structure (upto De Broglie's + Heisenberg)	IUPAC Nomenclature & Structural Isomerism	FOM-I, Quadratic Equation (Nature of Roots)	3
3	ACT-1	JEE (Adv.)	24-10-2021 (Sunday)	04-11-2021 (Wednesday)	Mathematical Tools, Rectilinear motion, Projectile Motion, Relative motion, NLM	Introduction to Chemistry, Atomic Structure, Mole Concept (upto Equation based calculations, Concept of Limiting reagent)	IUPAC Nomenclature & Structural Isomerism, Structural identification, POC-I (upto Lab test of amine, acid, ester and amide)	FOM-I Quadratic Equation, Trigonometry	6
4	APT-2	JEE (Adv.)	21-11-2021 (Sunday)	01-12-2021 (Wednesday)	Rectilinear motion, Projectile Motion, Relative motion, NLM, Friction, WPE (Power, Conservative and non-conservative force)	Atomic Structure, Mole Concept	Structural identification, POC-I	FOM-I Quadratic Equation, Trigonometry, Sequence and Series (Up to Geometry Mean)	6
5	MCT-2	JEE (Main)	12-12-2021 (Sunday)	22-12-2021 (Wednesday)	Mathematical Tools, Rectilinear motion, Projectile Motion, Relative motion, NLM, Friction, WPE, Circular Motion, Centre of mass (Collision in 2-D / Oblique collision)	Introduction to Chemistry, Atomic Structure, Mole Concept, Gaseous State (Ideal & Real Gases)	IUPAC Nomenclature & Structural Isomerism, Structural identification, POC-I, Periodic Table, BIN, Chemical Bonding (upto Writing resonating structures, finding average bond order)	FOM-I Quadratic Equation, Trigonometry, Sequence and Series, Mathematical Reasoning, FOM-II	3
6	ACT-2	JEE (Adv.)	02-01-2022 (Sunday)	12-01-2022 (Wednesday)	Mathematical Tools, Rectilinear motion, Projectile Motion, Relative motion, NLM, Friction, WPE, Circular Motion, Centre of mass, RBD, SHM (Graphs between various parameters)	Introduction to Chemistry, Atomic Structure, Mole Concept, Gaseous State (Ideal & Real Gases), Chemical Equilibrium, Thermodynamics & Thermochemistry (upto Enthalpy)	IUPAC Nomenclature & Structural Isomerism, Structural identification, POC-I, Periodic Table, BIN, Chemical Bonding (upto Bond angle & Bond length / Bond Strength)	FOM-I Quadratic Equation, Trigonometry, Sequence and Series, FOM-II, Binomial Theorem, Permutation and Combination	6
7	APT-3	JEE (Adv.)	23-01-2022 (Sunday)	02-02-2022 (Wednesday)	WPE, Circular Motion, Centre of mass, RBD, SHM, Fluid mechanics, Surface Ternsion, Elasticity & Viscosity, String wave (Definition, equation of pulse, travelling wave)	Gaseous State (Ideal & Real Gases), Chemical Equilibrium, Thermodynamics & Thermochemistry, s-block elements (upto Important compounds of S-block (Washing Soda, Gypsum, POP etc))	Periodic Table, BIN, Chemical Bonding	Sequence and Series, FOM-II, Binomial Theorem, Permutation and Combination, Straight Line, SOT	6
8	MCT-3	JEE (Main)	13-02-2022 (Sunday)	23-02-2022 (Wednesday)	Mathematical Tools, Rectilinear motion, Projectile Motion, Relative motion, NLM, Friction, WPE, Circular Motion, Centre of mass, RBD, SHM, Fluid mechanics, Surface Ternsion, Elasticity & Viscosity, String wave, Sound wave	Introduction to Chemistry, Atomic Structure, Mole Concept, Gaseous State (Ideal & Real Gases), Chemical Equilibrium, Thermodynamics & Thermochemistry, Ionic Equilibrium (Elementary) (upto pH calculation (SA, SB, mixture of SA, mixture of SB, mixture of SA & SB, WA, WB))	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 , SOT, Statistics, Circle,	3
9	MT	JEE (Main)	27-02-2022 (Sunday)	09-03-2022 (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.