



# COURSE PLANNER

**CLASS-XIII | VISHESH (05JD)**

Medium: Eng./Hin. Academic Session: 2019-20

Course Start: 13.05.2019 | Syllabus End: 28.12.2019

**Target: JEE (Main+Advanced) 2020**

## TOTAL ACADEMIC HOURS

- ◆ Course Duration: 32 Weeks
- ◆ Total Number of Lectures: 545 (P: 177 | C: 190 | M: 178)
- ◆ Duration of one lecture: 1.75 hrs = 105 minutes
- ◆ Total Duration of Classroom Teaching: 954 hrs
- ◆ Total Duration of Testing Hours (ACTs/APTs/MCTs/MT/AIOT): 87 hrs
- ◆ Total Academic Hours in VISHESH Course: 1041 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	4	13.05.19	PHYSICAL/ INORGANIC				1	Fundamental of Mathematics	12	13.05.19
2	Projectile Motion	3	17.05.19	1	Mole Concept	6	13.05.19	2	Quadratic Equation	7	27.05.19
3	Relative Motion	6	22.05.19	2	Quantum Mechanical Model of Atom	2	22.05.19	3	Relation, Function & ITF	13	04.06.19
4	Geometrical Optics	20	30.05.19	3	Periodic Table	3	27.05.19	4	Statistics	2	20.06.19
5	NLM	6	24.06.19	4	Real Gases	4	30.05.19	5	Sequence & Series	5	24.06.19
6	Friction	3	01.07.19	5	Chemical Bonding-I, II, III, IV & V	12	06.06.19	6	Matrices & Determinants	9	29.06.19
7	WPE	5	04.07.19	6	Chemical Equilibrium	6	01.07.19	7	Straight Line	10	10.07.19
8	Electrostatics	16	10.07.19	7	Ionic Equilibrium (Elementary)	6	11.07.19	8	Circle	7	22.07.19
9	Gravitation	3	29.07.19	8	Coordination Compounds	8	23.07.19	9	Limit Continuity & Derivability	11	30.07.19
10	Current Electricity	7	01.08.19	9	Electrochemistry	8	06.08.19	10	Application of Derivatives	13	12.08.19
11	Capacitance	7	09.08.19	10	Metallurgy	3	26.08.19	11	Solution of Triangle	3	29.08.19
12	Circular Motion	4	20.08.19	11	Qualitative Analysis-1	5	02.09.19	12	Conic Section	15	02.09.19
13	Centre of Mass	7	24.08.19	12	p-block elements (H & N gases)	3	10.09.19	13	Indefinite Integration	6	20.09.19
14	RBD	11	02.09.19	13	Chemical Kinetics	7	16.09.19	14	Definite Integration & Its Application	13	27.09.19
15	SHM	7	17.09.19	14	Qualitative Analysis-2	5	27.09.19	15	Differential Equation	5	15.10.19
16	String Waves	5	25.09.19	15	Solution & Colligative Properties	7	07.10.19	16	Mathematical Reasoning	3	21.10.19
17	Sound Wave	7	01.10.19	16	Surface Chemistry	3	18.10.19	17	Vector & 3D	13	04.11.19
18	Wave Optics	4	10.10.19	17	s-block element	2	04.11.19	18	Complex No.	10	19.11.19
19	EM Wave	1	15.10.19	18	Solid State	6	06.11.19	19	Binomial Theorem	6	02.12.19
20	Semiconductor	3	16.10.19	19	p-block elements (N & O gases)	4	18.11.19	20	Permutation & Combination	10	09.12.19
21	POC	2	19.10.19	20	Thermodynamics & Thermochemistry	7	25.11.19	21	Probability	5	23.12.19
22	EMF	6	22.10.19	21	p-block (B & C family)	3	05.12.19				
23	EMI	6	08.11.19	22	Equivalent Concept	3	11.12.19				
24	Alternating Current	3	15.11.19	23	d block element	2	17.12.19				
25	Modern Physics	5	19.11.19	24	Ionic Equilibrium (Advanced)	4	19.12.19				
26	Nuclear Physics	4	27.11.19	ORGANIC							
27	Fluid Mechanism	4	02.12.19	1	IUPAC Nomenclature and Structural Isomerism	5	13.05.19				
28	Surface Tension	3	06.12.19	2	Structural Identification & POC	3	22.05.19				
29	Elasticity & Viscosity	1	10.12.19	3	GOC-I & II	16	03.06.19				
30	KTG & Thermodynamics	7	11.12.19	4	Stereoisomerism (Mains)	5	15.07.19				
31	Calorimetry & Thermal Expansion	3	20.12.19	5	ORM-I & II	11	30.07.19				
32	Heat Transfer	4	24.12.19	6	Reduction, Oxidation & Hydrolysis	4	02.09.19				
	<b>Total No. of Lectures</b>	<b>177</b>		7	ORM-III & IV	7	16.09.19				
				8	Aromatic Compound	4	08.10.19				
				9	Preparation of Hydrocarbon	1	04.11.19				
				10	Carbonyl Compound and Acid Derivatives	7	05.11.19				
				11	Biomolecules	3	02.12.19				
				12	Stereoisomerism (Advanced)	3	10.12.19				
				13	Physical Prop. & Chem. in Everyday Life	2	23.12.19				
					<b>Total No. of Lectures</b>	<b>190</b>			<b>Total No. of Lectures</b>	<b>178</b>	

**IMPORTANT: 1. Revision Plan 1 (JEE-Main) will get distributed in first week of Jan 2020**

**2. Revision Plan 2 (JEE-Advanced) will get distributed in first week of April 2020**

### DPP DISTRIBUTION & DISCUSSION SCHEDULE

S.No.	DATE	PHYSICS	CHEMISTRY	MATHS
1	13 May to 07 Sep 19	Module-A	Module-A	Module-A
2	08 Sep to 28 Dec 19	Module-B	Module-B	Module-B

### COUNSELING SESSIONS SCHEDULE\*

WEEK
<b>03 - 08 June 2019</b>
<b>15 - 20 July 2019</b>
<b>14 - 19 October 2019</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	Physics	Periodic Test Syllabus			Testing Hours
						Chemistry		Mathematics	
						Physical/ Inorganic	Organic		
1	APT-1	JEE (Adv.)	02-06-19 (Sunday)	13-06-19 (Thursday)	Rectilinear Motion, Projectile Motion, Relative Motion.	Mole Concept + Quantum Mechanical model of atom (OMM) (All Cheminios and Handouts till date)	IUPAC Nomenclature & Structural isomerism & Structure identification	Fundamentals of Mathematics	6
2	ACT-1	JEE (Adv.)	16-06-19 (Sunday)	27-06-19 (Thursday)	Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics upto prism.	Mole Concept + Quantum Mechanical model of atom (OMM) & Periodic Table & Real Gases (All Cheminios and Handouts till date)	IUPAC Nomenclature & Structural isomerism & Structure identification & POC-I, GOC-I (upto Stability of Resonating structure)	Fundamentals of Mathematics, Quadratic Equation	6
3	MCT-1	JEE (Main)	14-07-19 (Sunday)	25-07-19 (Thursday)	Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics, NLM, Friction, WPE upto Power.	Mole concept, OMM, Periodic Table & Real Gas, Chemical Bonding, Chemical Equilibrium (upto Homogeneous equilibrium) (All Cheminios and Handouts till date)	Structural isomerism, Structure Identification & POC-I, GOC-I & GOC-II (upto intermediate)	Fundamentals of Mathematics, Quadratic Equation, Relation, Function & IF, Statistics, Sequence & Series	3
4	APT-2	JEE (Adv.)	04-08-19 (Sunday)	14-08-19 (Wednesday)	Geometrical Optics, NLM, Friction, WPE, Electrostatics.	Periodic Table, Real Gas, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary) & Coordination compounds (upto VBT) (All Cheminios and Handouts till date)	POC-I, GOC-I & GOC-II, Stereoisomerism (upto Geometrical Isomers)	Quadratic Equation, Function & IF, Sequence & Series, Matrices & Determinant, Straight Line	6
5	ACT-2	JEE (Adv.)	18-08-19 (Sunday)	29-08-19 (Thursday)	Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics, NLM, Friction, WPE, Electrostatics, Gravitation, Current Electricity & Capacitance up combination of capacitors.	Mole concept, OMM, Periodic Table, Real Gas, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary), Coordination compounds, Electrochemistry (upto Concentration cells) (All Cheminios and Handouts till date)	GOC-I & GOC-II, Stereoisomerism (Mains) ORM-I (upto Nucleophilic addition reaction)	Fundamentals of Mathematics, Quadratic Equation, Function & IF, Sequence & Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Differentiability (Upto Limits only)	6
6	MCT-3	JEE (Main)	08-09-19 (Sunday)	19-09-19 (Thursday)	Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optic, NLM, Friction, WPE, Electrostatics, Gravitation, Current Electricity, Capacitance, Circular motion, CoM.	Mole concept, OMM, Periodic table, Real Gas, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary), Coordination compounds, Electrochemistry, Metallurgy (All Cheminios and Handouts till date)	Stereoisomerism (Mains), ORM-I & ORM-II	Fundamentals of Mathematics: Quadratic Equation, Relation, Function & IF, Statistics, Sequence & Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Differentiability, Application of Derivatives	3
7	APT-3	JEE (Adv.)	06-10-19 (Sunday)	17-10-19 (Thursday)	Current Electricity, Capacitance, Circular Motion, Centre of Mass, RBD, SHM, String Waves.	Coordination compounds, Electrochemistry, Metallurgy, Qualitative Analysis-I, p-Block(Halogen & Noble gases) & Radioactivity (All Cheminios and Handouts till date)	ORM-I & ORM-II, Reduction, Oxidation & Hydrolysis, ORM-III	Limits, Continuity & Differentiability, Application of Derivatives, Solution of Triangle, Conic Section, Indefinite Integration	6
8	ACT-2	JEE (Adv.)	24-11-19 (Thursday)	05-12-19 (Thursday)	Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optic, NLM, Friction, WPE, Electrostatics, Gravitation, Current Electricity, Capacitance, Circular Motion, Centre of Mass, RBD, SHM, String Waves, Sound Waves and Wave Optics, EMF, BMI, AC.	Mole concept, OMM, Periodic table, Real Gas, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary), Coordination compounds, Electrochemistry, Metallurgy, Qualitative Analysis-I, p-Block Elements (Halogen & Noble gases), Chemical Kinetics & Radioactivity, Qualitative Analysis-II, Solution & Colligative Properties & Surface Chemistry, s-block Elements, Solid State (All Cheminios and Handouts till date)	Reduction, Oxidation & Hydrolysis, ORM-III, Aromatic Compound, Preparation of Hydrocarbon & Carbonyl compounds (upto Condensation reaction)	Fundamentals of Mathematics, Quadratic Equation, Function & IF, Sequence & Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Differentiability, Application of Derivatives, Solution of Triangle, Conic Section, Indefinite Integration, Definite Integration & Its Application, Differential Equation, Vector & 3-D (upto cross product of two vectors)	6
9	APT-4	JEE (Adv.)	15-12-19 (Saturday)	26-12-19 (Thursday)	EMF, BMI, AC, Modern Physics-I, Nuclear Physics, Fluid Mechanics, Surface tension.	Qualitative Analysis-II, Solution & Colligative Properties & Surface Chemistry, s-block, Solid State, p-Block(N & O), Thermodynamics & Thermochemistry (All Cheminios and Handouts till date)	Aromatic Compound, Preparation of Hydrocarbon, Carbonyl compounds & Acid & derivatives	Definite Integration & Its Application, Differential Equation, Vector & 3-D, Complex Number, Binomial Theorem	6
10	AJOT-1	JEE (MAIN)	28-12-19 (Sunday)	09-01-20 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
11	MJMT-1	JEE (MAIN)	31-12-19 (Monday)	09-01-20 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
12	MJMT-2	JEE (MAIN)	02-01-20 (Thursday)	10-02-20 (Friday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
13	AJOT-2	AJOT (MAIN)	16-02-20 (Sunday)	20-02-20 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
14	JPT-1	JEE (MAIN)	15-03-20 (Sunday)	19-03-20 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
15	JPT-2	JEE (MAIN)	22-03-20 (Sunday)	26-03-20 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
16	JPT-3	JEE (MAIN)	29-03-20 (Sunday)	02-04-20 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
17	JPT-1	JEE (ADV.)	26-04-20 (Sunday)	30-04-20 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	6
18	AJOT	JEE (ADV.)	03-05-20 (Sunday)	07-05-20 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	6
19	JPT-2	JEE (ADV.)	10-05-20 (Sunday)	14-05-20 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	6

**Date of Reshuffling of Batches:** 23.06.2019, 01.09.2019

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.

**TOTAL TESTING HOURS**

**87**