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COURSE PLANNER CLASS-XIII | VIJAY (05JR)

Course Concept

Course Concept : This course is for Class-XII passed students and prepares him for JEE (Advanced) exam, JEE (Main) syllabus will be covered by December 2019, so that student is well prepared for January 2020 attempt with January and February invested for detailed JEE (Advanced) preparation. In month of April / May student shall be revised the entire syllabus of JEE (Advanced).

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

SYLLABUS COMPLETION
JEE (Main) : 28-12-2019
JEE (Advanced): 06-03-2020

Course Start: **08.07.2019**
Syllabus End: **06.03.2020**

Target: JEE (Main+Advanced) 2020

TOTAL ACADEMIC HOURS

- **Course Duration:** 34 Weeks
- **Total Number of Lectures: 519** (P: 168 | C: 183 | M: 168)
- **Duration of one lecture:** 1.75 hrs = 105 minutes
- **Total Duration of Classroom Teaching:** 908 hrs
- **Total Duration of Testing Hours (ACTs/APTs/MCTs/MT/AIOT):** 84 hrs
- **Total Academic Hours in VIJAY Course: 992** hrs

SUBJECT WISE SYLLABUS PLAN

PHYSICS [P]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	Rectilinear Motion	4	08.07.19
2	Projectile Motion	3	12.07.19
3	Relative Motion	3	17.07.19
4	Geometrical Optics	13	22.07.19
5	NLM	6	07.08.19
6	Friction	3	14.08.19
7	WPE	4	20.08.19
8	Electrostatistics	13	24.08.19
9	Gravitation	3	11.09.19
10	Current Electricity	6	16.09.19
11	Capacitance	6	23.09.19
12	Circular Motion	5	01.10.19
13	Centre of Mass	7	08.10.19
14	RBD	12	16.10.19
	Modern Physics–1	1	Topics will get discussed in first week after diwali break
	Nuclear Physics	1	
	Fluid Mechanism	1	
	Surface Tension	1	
	Elasticity & Viscosity	1	
	KTG & Thermodynamics	1	
	Calorimetry & Thermal Expansion	1	
	Heat Transfer	1	
15	SHM	6	14.11.19
16	String Waves	5	21.11.19
17	Sound Wave	7	27.11.19
18	Wave Optics	4	05.12.19
19	EM Wave	1	10.12.19
20	Semiconductor	3	11.12.19
21	POC	2	16.12.19
22	EMF	6	18.12.19
23	EMI	6	25.12.19
24	Alternating Current	3	16.01.20
25	Modern Physics-1	4	23.01.20
26	Nuclear Physics	3	29.01.20
27	Fluid Mechanism	3	04.02.20
28	Surface Tension	2	08.02.20
29	Elasticity & Viscosity	1	12.02.20
30	KTG & Thermodynamics	6	13.02.20
31	Calorimetry & Thermal Expansion	2	21.02.20
32	Heat Transfer	2	25.02.20
33	Miscellaneous	6	
Total No. of Lectures		**168**	

CHEMISTRY [C]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
	PHYSICAL/ INORGANIC		
1	Mole Concept	6	08.07.19
2	Quantum Mechanical Model of Atom	1	22.07.19
3	Periodic Table	2	23.07.19
4	Real Gases	4	29.07.19
5	Chemical Bonding-I, II, III, IV & V	11	06.08.19
6	Chemical Equilibrium	6	02.09.19
7	Ionic Equilibrium (Elementary)	6	16.09.19
8	Coordination Compounds	8	25.09.19
9	Electrochemistry	8	09.10.19
	p–elements (N & O gases)	1	Topics will get discussed in first week after diwali break
	p–block (B & C family)	1	
	s–block element	1	
10	Metallurgy	3	04.11.19
11	Qualitative Analysis-1	4	07.11.19
12	p-block elements (H & N gases)	3	14.11.19
13	Chemical Kinetics	7	20.11.19
14	Solution & Colligative Properties	8	03.12.19
15	Solid State	7	17.12.19
16	Surface Chemistry	3	13.01.20
17	Qualitative Analysis-2	4	16.01.20
18	s-block element	1	23.01.20
19	p-block elements (N & O gases)	3	28.01.20
20	Thermodynamics & Thermochemistry	7	04.02.20
21	p-block (B & C family)	2	17.02.20
22	Equivalent Concept	2	20.02.20
23	d block element	2	25.02.20
24	Ionic Equilibrium (Advanced)	3	27.02.20
	ORGANIC		
1	IUPAC Nomenclature Structural Isomerism	5	08.07.19
2	Structural Identification & POC	2	23.07.19
3	GOC-I & II	15	29.07.19
4	Stereoisomerism (Mains)	4	16.09.19
5	ORM-I & II	11	30.09.19
	Carbonyl compound and acid derivatives	1	Topics will get discussed in first week after diwali break
	Biomolecules	1	
	Physical Prop. & Chem in Everyday Life	1	
6	Reduction, Oxidation & Hydrolysis	3	11.11.19
7	ORM-III & IV	7	19.11.19
8	Aromatic Compound	4	16.12.19
9	Preparation of Hydro carbon	1	13.01.20
10	Carbonyl Compound and Acid Derivatives	6	14.01.20
11	Biomolecules	3	04.02.20
12	Stereoisomerism (Advanced)	3	17.02.20
13	Physical Prop.& Chem.in Everyday Life	2	25.02.20
Total No. of Lectures		**183**	

MATHEMATICS [M]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	Fundamental of Mathematics	11	08.07.19
2	Quadratic Equation	5	23.07.19
3	Relation, Function & ITF	12	29.07.19
4	Statistics	2	13.08.19
5	Sequence & Series	5	16.08.19
6	Matrices & Determinants	8	23.08.19
7	Straight Line	9	03.09.19
8	Cirlce	6	16.09.19
9	Limit Continuity & Derivability	10	21.09.19
10	Application of Derivatives	12	02.10.19
11	Indefinite Integration	5	15.10.19
12	Mathematical Reasoning	2	21.10.19
	Binomial Theorem	1	Topics will get discussed in first week after diwali break
	P & C	1	
	Probability	1	
13	Conic Section	14	04.11.19
14	Definite Integration & Its Application	12	16.11.19
15	Differential Equation	5	28.11.19
16	Vector & 3D	14	03.12.19
17	Complex No.	9	18.12.19
18	Solution of Triangle	3	15.01.20
19	Binomial Theorum	5	20.01.20
20	Permutation & Combination	9	04.02.20
21	Probability	5	20.02.20
22	Miscellaneous	2	
Total No. of Lectures		**168**	

IMPORTANT: Revision Plan (JEE-Advanced) will start after first week of April 2020

DPP DISTRIBUTION & DISCUSSION SCHEDULE

S.No.	DATE	PHYSICS	CHEMISTRY	MATHS
1	08 Jul to 14 Sep 19	Module-A	Module-A	Module-A
2	16 Sep 19 to 06 Mar 20	Module-B	Module-B	Module-B

COUNSELING SESSIONS SCHEDULE*

WEEK
19 - 24 Aug 2019
14 - 19 October 2019
03 - 08 February 2020

*Timings of Psychological Counseling Session for Individual Batch will be announced via time table.

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.)	04-08-19 (Sunday)	14-08-19 (Wednesday)	Rectilinear Motion, Projectile Motion Relative Motion, geometrical Optics upto mirror formula.	Mole Concept + Quantum Mechanical model of atom (QMM) (All ChemInfos and Handouts Till date)	IUPAC Nomenclature & Structural isomerism & Structure Identification	Fundamentals of Mathematics	6
2	ACT-1	JEE (Adv.)	18-08-19 (Sunday)	29-08-19 (Thursday)	Rectilinear Motion, Projectile Motion Relative Motion, geometrical Optics, NLM upto problems on equilibrium.	Mole concept, QMM, Periodic Table & Real Gas (All ChemInfos and Handouts Till date)	IUPAC Nomenclature, Structural isomerism, Structure Identification & POC-I, GOC-I (upto Mesomeric effect)	Fundamentals of Mathematics, Quadratic Equation, Function & ITF (Excepts Inverse Trigonometric function)	6
3	MCT-1	JEE (Main)	08-09-19 (Sunday)	19-09-19 (Thursday)	Rectilinear Motion, Projectile Motion Relative Motion, geometrical Optics, NLM, Friction, WPE, Electrostatics upto potential due to point charge.	Mole concept, QMM, Periodic Table & Real Gas, Chemical Bonding (upto Chemical Bonding-5) (All ChemInfos and Handouts Till date)	POC-I, GOC-I & GOC-II (upto Acidic Strength of organic compounds)	Fundamentals of Mathematics, Quadratic Equation, Relation, Function & ITF, Statistics, Sequence & Series, Matrices & Determinant	3
4	APT-2	JEE (Adv.)	06-10-19 (Sunday)	17-10-19 (Thursday)	Geometrical Optics, NLM, Friction, WPE, Electrostatics, Gravitation, Current Electricity, Capacitance.	Periodic Table, Real Gas, Chemical Bonding, Chemical Equilibrium & Ionic Equilibrium (Elementary) (All ChemInfos and Handouts Till date)	POC-I, GOC-I & GOC-II, Stereoisomerism (Mains)	Paper-1: Quadratic Equation, Function & ITF, Sequence & Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability (Upto Limits only) Paper-2: Quadratic Equation, Function & ITF, Matrices & Determinant, Straight Line, Circle	6
5	MCT-2	JEE (Main)	24-11-19 (Sunday)	05-12-19 (Thursday)	Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics, NLM, Friction, WPE, Electrostatics, Gravitation, Current Electricity, Capacitance, Circular Motion, Centre of Mass, RBD upto rotational equilibrium.	Mole concept, QMM, Periodic table, Real Gas, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (elemenatry), Coordination compounds, Electrochemistry, Metallurgy (All ChemInfos and Handouts Till date)	Stereoisomerism (Mains), ORM-I & ORM-II, Reduction, Oxidation	Fundamentals of Mathematics, Quadratic Equation, Relation, Function & ITF, Matrices & Determinant, Straight Line, Circle , Limits, Continuity & Derivability, Application of Derivatives, Mathematical Reasoning, Conic Section	3
6	APT-3	JEE (Adv.)	15-12-19 (Sunday)	26-12-19 (Thursday)	Current Electricity, Capacitance, Circular Motion, Centre of Mass, RBD, SHM, String Waves & Sound Waves upto speed of sound waves.	Coordination compounds, Electrochemistry, Metallurgy, Qualitative Analysis-I, p-Block(Halogen & Noble gases), Chemical Kinetics & Radioactivity (upto Temperature dependence of rate) (All ChemInfos and Handouts Till date)	ORM-I & ORM-II, Reduction, Oxidation & Hydrolysis, ORM-III	Limits, Continuity & Derivability, Application of Derivatives, Conic Section, Indefinite Integration, Definite Integration & Its Application, Differential Equation	6
7	AIOT-1	JEE (MAIN)	29-12-19 (Sunday)	09-01-20 (Thursday)	Full Syallbus	Full Syallbus	Full Syallbus	Full Syallbus	3
8	MMT-1	JEE (MAIN)	31-12-19 (Monday)	09-01-20 (Thursday)		Full Syallbus	Full Syallbus	Full Syallbus	3
9	MMT-2	JEE (MAIN)	02-01-20 (Thursday)	10-02-20 (Friday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
10	ACT-2	JEE (Adv.)	02-02-20 (Sunday)	13-02-20 (Thursday)	Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics, NLM, Friction, WPE, Electrostatics, Gravitation, Current Electricity, Capacitance, Circular Motion, Centre of Mass, RBD, SHM, String Waves & Sound Waves, Wave optics, EMF, EMI & Alternating Current.	Mole concept, QMM, Periodic table, Real Gas, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (elemenatry), Coordination compounds, Electrochemistry, Metallurgy, Qualitative Analysis-I, p-Block Elements (Halogen & Noble gases), Chemical Kinetics & Radioactivity, Solution & Colligative Prop., Solid State, Surface Chemistry, Qualitative Analysis-II, & s-block Elements (All ChemInfos and Handouts Till date)	ORM-IV, Aromatic Compound, Preparation of Hydrocarbon, Carbonyl compounds (upto Condensation reaction)	Fundamentals of Mathematics, Quadratic Equation, Function & ITF, Sequence & Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability, Application of Derivatives, Conic Section, Indefinite Integration, Definite Integration & Its Application, Differential Equation, Vector & 3-D, Complex Number	6
11	AIOT-2	JEE (MAIN)	16-02-20 (Sunday)	20-02-20 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
12	MT	JEE (MAIN)	06-03-20 (Friday)	12-03-20 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
13	MT	JEE (Adv.)	08-03-20 (Sunday)	19-03-20 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	6
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	AIOT	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
								TOTAL TESTING HOURS	**84**

Date of Reshuffling of Batches: 15.09.2019

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.