

Academic Session: 2018-19

## COURSE PLANNER

For Students of

### CLASS-XII | VIJETA (JP)

Target: JEE (Main + Advanced) 2019

Medium: English | Hindi

#### COURSE CONCEPT

A Course which offers ample time of 2 years after Class-X to become an expert in the curriculum of JEE (Main + Advanced). In the first year (during Class-XI) the course progresses with basic fundamental study; covering upon the syllabus of boards (At Kota study centre) alongwith the preparation for JEE (Main + Advanced). After completion of Class-XI syllabus the students are promoted to second year (for Class-XII) on basis of their cumulative performance in the periodic tests held in Class-XI. The course helps in development of concepts, rigorous practice for board exams, enhancement of analytical thinking and increasing the confidence level of aspirant.

Course Commencement: 02.04.2018 | Course End: 22.12.2018

#### RESONANCE TEACHING METHODOLOGY

##### Preparation for JEE (Main + Advanced)

Classroom Teaching

Daily Practice Problems (DPPs)

Study Material (Sheets/Modules)

APT - Advanced Pattern Part Test

ACT - Advanced Pattern Cumulative Test

MCT - Main Pattern Cumulative Test

Doubt Classes

\*The support for Fourth subject (English), Fifth subject & Practical is provided by the institute to students on Optional & Nominal Chargeable basis.

##### Preparation for Board Examination

Classroom Teaching & NCERT Book Discussion

Resonance Board Worksheets (RBWs)

Study Material (Sheets/Modules)

Board (BPTs) Pattern Tests

Doubt Classes

Support for Fourth Subject (English)\*

Support for Fifth Subject\*

Support for Practical (Physics & Chemistry)

#### TOTAL ACADEMIC HOURS

◆ **Course Duration:** 39 Weeks

◆ **Total Number of Lectures: 488** (P: 148 | C: 193 | M: 147)

◆ **Duration of one lecture:** 1.5 hrs = 90 minutes

◆ **Total Duration of Classroom Teaching:** 732 hrs

◆ **Total Duration of Testing Hours (ACTs/APTs/ MCTs/BPTs/MT/AIOT):** 108 hrs

◆ **Total Academic Hours in VIJETA Course:** 840 hrs

#### TEACHING/ LEARNING TOOLS

- ◆ **Daily Practice Problems (DPPs):** A handout having problems for home assignment, practice and classroom discussion covering current and previous topics. A DPP for JEE (Advanced) has 7-10 problems and DPP for JEE (Main) contains upto 20 problems.
- ◆ **Board Worksheet:** Questions on board pattern with blank spaces (to write their answers) are provided to students in the form of worksheets. Students after completing the worksheet; have to submit it for evaluation. It ensures written practice of students for board examinations.
- ◆ **Study Material (Sheets/Modules):** Topic wise study material having key concepts, problems for practice in various Exercise Levels and questions asked in previous years (Board/JEE (Main)/JEE (Advanced)).
- ◆ **Periodic Tests:** Periodic Tests are conducted having part syllabus (Part Tests - PTs) with many problems of seen nature and Tests comprising of the syllabus taught till date (Cumulative Tests - CTs) with unseen problems. Both PTs and CTs are conducted on the pattern of JEE (Main and Advanced) in offline and online mode. Board Practice Tests (BPTs) are also conducted.

**Holidays/ Vacations (Total: 13-Days):** **1.** Raksha Bandhan: 26<sup>th</sup> August, 2018: One Day, **2.** Independence Day: 15<sup>th</sup> August, 2018 : One Day, **3.** Deepawali Holidays: From 05<sup>th</sup> November, 2018 (Monday) to 14<sup>th</sup> November, 2018 (Wednesday): 10 Days, **4.** Republic Day: 26<sup>th</sup> January, 2019: One Day (Applicable only at Kota SC and at other SC's Deepawali vacation will be informed to students as per respective SC holiday calendar)

#### Disclaimer:

- ◆ The Institute reserves the right to increase/decrease the number of lectures allotted to any topic and also make changes in the sequence of the topics of each subject depending upon the course requirements.
- ◆ This Course Planner in all respects is applicable only at Kota (Rajasthan). At other Resonance Study Centres, Students/Parents may find some 'minor' variations to accommodate City specific features/factors.
- ◆ The Topic Start Date mentioned here might vary for batches starting on different dates of the particular course. However the coverage of the content in any topic shall remain the same, it is done by altering the frequency of proposed/planned lectures in a particular week.
- ◆ The information given in this Course Planner is proposed for Academic Session 2018-19. The institute reserves the right to make changes in it in the interest of students.



# PERIODIC TEST SCHEDULE & RESULT COMMUNICATION

S. No.	Periodic Test type and No.	Test Pattern	Periodic Test Date	First Display (Notice Board) & Communication to parent with Centre Rank	Display & Communication of Final Result with All Resonance Rank (ARR)	Uploading of Result on Resonance Website	Physics		Chemistry		Mathematics	Testing Hours
							Physics	Chemistry	Physical/ Inorganic	Organic		
1	Scholarship Test	JEE (Advanced)	22-04-18 (Sunday)	26-04-18 (Thursday)	01-05-18 (Tuesday)	03-05-18 (Thursday)	Complete XI Syllabus	Complete XI Syllabus	Complete XI Syllabus	Complete XI Syllabus	6	
2	APT-1	JEE (Advanced)	13-05-18 (Sunday)	17-05-18 (Thursday)	22-05-18 (Tuesday)	24-05-18 (Thursday)	KTG & Thermodynamics, Calorimetry & Thermal Expansion, SHM, Wave on a string, Sound waves, GO, Electrostatics upto electric field	Solutions & Colligative Properties, Coordination Compounds (up to CF1), Ionic Equilibrium, & Cheminfo (full data)	GOC-II, Physical Properties, POC-II & Geometrical Isomerism	Binomial theorem, P & C, Matrices & Determinant, Probability, Vector & 3-D (upto Dot product)	6	
3	ACT-1	JEE (Advanced)	27-05-18 (Sunday)	31-05-18 (Thursday)	05-06-18 (Tuesday)	07-06-18 (Thursday)	KTG & Thermodynamics, Calorimetry & Thermal Expansion, SHM, Wave on a string, Sound waves, GO, Measurement: error and experiment, Electrostatics	Solution & Colligative Properties, Coordination Compounds, s-Block Element & Cheminfo	GOC-II, Physical Properties, POC-II, Geometrical Isomerism & Optical Isomerism (upto Element of symmetry)	Binomial theorem, P & C, Matrices & Determinant, Probability, Vector & 3-D	6	
4	APT-2	JEE (Advanced)	24-06-18 (Sunday)	28-06-18 (Thursday)	03-07-18 (Tuesday)	05-07-18 (Thursday)	SHM, Wave on a string, Sound waves, Measurement error and experiment, Electrostatics, Gravitation, Current electricity upto KCL and KVL	Coordination Compound, Solid State, Electrochemistry, (Upto application of Electro chemical series), Gaseous state, Chemical Bonding, p-Block (B & C)	Physical Properties, POC-II, Stereoisomerism, ABC-1 (Hydrocarbon) & ABC-2 (Phenol & Aniline)	FOHM-I & II, Trigonometry, SOT, Vector & 3-D, Complex Number, Function & IIT (upto Domain & Range)	6	
5	MCT-2 + BPT-1	BOARD + JEE (Main)	15-07-18 (Sunday)	19-07-18 (Thursday)	24-07-18 (Tuesday)	26-07-18 (Thursday)	Kinematics, NLM, Friction, Work energy power, Circular motion, Geometrical Optics, Measurement and error, Gravitation, Current electricity, Heat transfer	MCT: Solution & Colligative Properties, Coordination Compound, Solid State, Electrochemistry, Gaseous state, Chemical Bonding, p-Block (B & C) BPT: Solution & Colligative Properties, Coordination Compound, Solid State, Electrochemistry	MCT-1 Syllabus + Stereoisomerism, Chemical Kinetics, Reaction Reagents, Preparation of Grignard Reagents & ORM-I and IUPAC Nomenclature & Structural Isomerism, Structure Identification BPT: IUPAC Nomenclature, Structural Isomerism, Structure Identification & Stereo Isomerism	MCT-1 syllabus + Vector & 3-D, Complex Number, Function & IIT (upto property T-1(TT)) BPT: Matrices & Determinant, Probability, Vector & 3-D, Function, Types of Relation	6	
6	ACT-2	JEE (Advanced)	05-08-18 (Sunday)	09-08-18 (Thursday)	14-08-18 (Tuesday)	16-08-18 (Thursday)	Kinematics, NLM, Friction, WPE, Circular motion, COM, RBD, Geometrical Optics, Measurement and error, Gravitation, Current electricity, Heat transfer, Capacitance	Solution & Colligative Properties, Coordination Compound, Solid state, Electrochemistry, Metallurgy, Qualitative Analysis (Only anion up to dilute acid group), Thermodynamics	ACT1 + Stereoisomerism, Chemical Kinetics, Reaction Reagents, Preparation of Grignard Reagents, ORM-I & ORM-II and IUPAC Nomenclature & Structural Isomerism, Structure Identification	ACT-1 syllabus + Complex Number, Function & IIT, Limits, FOM-I & II, Trigonometry, Solution of Triangle	6	
7	APT-3	JEE (Advanced)	26-08-18 (Sunday)	30-08-18 (Thursday)	04-09-18 (Tuesday)	06-09-18 (Thursday)	COM, RBD, Fluid mechanics: Elasticity and viscosity, Surface tension, Current electricity, Heat transfer, Capacitance, EMF; EMV upto motional EMF	Electrochemistry, Metallurgy, Qualitative Analysis (Only anion), p-Block (13-16 group), Chemical Bonding	ORM-I, ORM-II & Reduction, Oxidation & Hydrolysis, ABC-3 (Alkyl halides, Alcohols & Ethers) & ABC-4 (Carboxylic acid & Carbonyl Compound)	Function & IIT Limits, Continuity & Derivability, Straight Line, Circle, Quadratic Equation	6	
8	MCT-3 + BPT-2	BOARD + JEE (Main)	23-09-18 (Sunday)	27-09-18 (Thursday)	02-10-18 (Tuesday)	04-10-18 (Thursday)	COM, RBD, Fluid Mechanics: Elasticity and Viscosity, Surface tension, GO, Electrostatics Gravitation, Measurement and error; Current electricity, Heat transfer, Capacitance, EMF, EMI, AC	MCT-3: Solution & Colligative Properties, Coordination Compound, solid state, Electrochemistry, Metallurgy, Qualitative Analysis (Only anion), p-Block (13-16 group), Equivalent concept & titrations BPT: Solution & Colligative Properties, Coordination Compound, solid state, Electrochemistry, Metallurgy, p-Block (15-16 group)	MCT: MCT-2 Syllabus + ORM-II, Reduction, Oxidation & Hydrolysis, ORM-III & ORM-IV BPT: ORM-I, ORM-II, ABC-1, 2, 3 & 4	MCT: MCT-2 syllabus + Function & IIT Limits, Continuity & Derivability, MOD, ADD, Straight Line, Circle, Quadratic Equation BPT: IIT Limits, Continuity, & Derivability, MOD, ADD	6	
9	ACT-3	JEE (Main)	21-10-18 (Sunday)	25-10-18 (Thursday)	30-10-18 (Tuesday)	01-11-18 (Thu.)	XI syllabus complete, GO, Electrostatics Gravitation, Measurement and error; Current electricity, Heat transfer, Capacitance, EMF, EMI, AC, Modern Physics-I	Solution & Colligative Properties, Solid State, Coordination Compound, electrochemistry, Metallurgy, Qualitative Analysis (Only anion), p-Block (15-18 group), Equivalent concept & titrations, Chemical kinetics (up to Monitoring the progress of reaction)	ACT-II + Reduction, Oxidation, Hydrolysis & ORM-III, ORM-IV & Aromatic Compounds	ACT-2 Syllabus + Limits, Continuity & Derivability, MOD, ADD, Indefinite Integration (Upto IBP), Straight Line, Circle, Quadratic Equation	3	
10	APT-4	JEE (Advanced)	02-12-18 (Sunday)	06-12-18 (Thursday)	11-12-18 (Tuesday)	13-12-18 (Thursday)	Fluid mechanics, Elasticity and viscosity, Surface tension, EMI, AC, Modern Physics-I, Nuclear physics, Wave optics,	Qualitative Analysis (Only anion), p-Block (13-18 group), Equivalent concept & titrations, chemical equilibrium, atomic structure, periodic table, Surface Chemistry, Chemical Kinetics	ORM-III, ORM-IV, Aromatic Compounds & Carbonyl compounds	MOD, ADD, Indefinite Integration, Definite Integration & Its Application, Conic Section, Sequence & Series	6	
11	Mock-BPT	Board (Maths)	22-12-18 (Saturday)	27-12-18 (Thursday)	01-01-19 (Tuesday)	03-01-19 (Thursday)	-	-	-	Full Syllabus	Full Syllabus	2
12	MT-1	JEE (Advanced)	23-12-18 (Sunday)	27-12-18 (Thursday)	01-01-19 (Tuesday)	03-01-19 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	6
13	Mock-BPT	Board (Phy.)	25-12-18 (Tuesday)	29-12-18 (Saturday)	01-01-19 (Tuesday)	03-01-19 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	2
14	Mock-BPT	Board (Chem.)	26-12-18 (Wednesday)	29-12-18 (Saturday)	01-01-19 (Tuesday)	03-01-19 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	2
15	MT-2	JEE (Advanced)	30-12-18 (Sunday)	03-01-19 (Thursday)	08-01-19 (Tuesday)	10-01-19 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	6
16	MT	JEE (Main)	31-12-18 (Monday)	03-01-19 (Thursday)	08-01-19 (Tuesday)	10-01-19 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
17	A1OT	JEE (Main)	27-01-19 (Sunday)	31-01-19 (Thursday)	05-02-19 (Tuesday)	07-02-19 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
18	A1OT*	JEE (Main)	10-02-19 (Sunday)	14-02-19 (Thursday)	19-02-19 (Tuesday)	21-02-19 (Thursday)	Full XI Syllabus	Full XI Syllabus	Full XI Syllabus	Full XI Syllabus	Full XI Syllabus	3
19	A1OT-1	JEE (Advanced)	24-02-19 (Sunday)	28-02-19 (Thursday)	05-03-19 (Tuesday)	07-03-19 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	6
20	JPT-1*	JEE (Main)	17-03-19 (Sunday)	14-03-19 (Thursday)	19-03-19 (Tuesday)	21-03-19 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
21	JPT-2*	JEE (Main)	17-03-19 (Sunday)	21-03-19 (Thursday)	26-03-19 (Tuesday)	28-03-19 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
22	JPT-1	JEE (Advanced)	28-04-19 (Sunday)	02-05-19 (Thursday)	07-05-19 (Tuesday)	09-05-19 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	6
23	JPT-2	JEE (Advanced)	12-05-19 (Tuesday)	16-05-19 (Saturday)	21-05-19 (Thursday)	23-05-19 (Saturday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	6
<b>Total Testing Hours</b>											<b>108</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 for re-evaluation in two working days after first display of result. 4. \*Only in Downloadable format

## RESONANCE BOARD WORKSHEET (RBW) SCHEDULE

PHYSICS		
Week No.	RBW Dist. Date	RBW No.
W-4	23-04-2018	1
W-09	28-05-2018	2
W-17	23-07-2018	3
W-24	10-09-2018	4
W-33	12-11-2018	5
<b>TOTAL RBWs</b>		<b>5</b>

CHEMISTRY		
Week No.	RBW Dist. Date	RBW No.
W-11	11-06-2018 (P/I)	1
W-22	27-08-2018 (P/I)	2
W-36	03-12-2018 (P/I)	3
W-17	23-07-2018 (O)	1
W-35	26-11-2018 (O)	2
<b>TOTAL RBWs</b>		<b>5</b>

MATHEMATICS		
Week No.	RBW Dist. Date	RBW No.
W-04	23-04-2018	1
W-09	28-05-2018	2
W-13	25-06-2018	3
W-17	23-07-2018	4
W-23	03-09-2018	5
W-30	22-10-2018	6
W-36	03-12-2018	7
<b>TOTAL RBWs</b>		<b>7</b>

### Discussion Schedule of Daily Practice Problems (DPPs):

S. No.	Week No.	DPP No.				No. of DPPs	S. No.	Week No.	DPP No.				No. of DPPs	S. No.	Week No.	DPP No.				No. of DPPs
		P	C		M				P	C		M				P	C		M	
			P/I	O						P/I	O						P/I	O		
1	Week-01	A1,2	A1	A1	A1,2	6	15	Week-15	11,12	7	6	12,13,14	7	29	Week-29	42,43	23	22	47,48,49	7
2	Week-02	3,4	2,3	2,3	3,4	8	16	Week-16	13,14	8	7,8	15,16	7	30	Week-30	44,45,46	24	23	50,51	7
3	Week-03	5,6,7	4	4	5,6,7	8	17	Week-17	15,16	9,10	9	17,18,19	8	31	Week-31	47,48,49	25	24	52,53,54	8
4	Week-04	8,9	5,6	5,6	8,9	8	18	Week-18	17	11	10	20,21,22	6	32	Week-32	Diwali Vacations				
5	Week-05	10,11,12	7,8	7,8	10,11,12	10	19	Week-19	18,19,20	12	11,12	23,24	8	33	Week-33	0	0	0	0	0
6	Week-06	13,14	9	9	13,14	6	20	Week-20	21,22,23	13	13	25,26,27	8	34	Week-34	50,51,52	0	25	55,56,57	7
7	Week-07	15,16,17	10	10,11	15,16,17	9	21	Week-21	24,25,26	14,15	14	28,29,30	9	35	Week-35	53,54	26	26	58,59	6
8	Week-08	18,19,20	11	12	18,19,20	8	22	Week-22	27,28	16	15	31,32,33	7	36	Week-36	55,56,57	27	27	60,61,62	8
9	Week-09	21,22,23	12	13	21,22,23	8	23	Week-23	29,30,31	17	16,17	34,35	8	37	Week-37	0	28	28	63,64,65	5
10	Week-10	24,25,26	13	14	24,25,26	8	24	Week-24	32,33	18	18	36,37,38	7	38	Week-38	0	29	0	0	1
11	Week-11	81,2,3	B1,2	B1	B1,2,3	9	25	Week-25	34,35	19	19	39,40,41	7	39	Week-39	0	0	0	0	0
12	Week-12	4,5	3	2	4,5,6	7	26	Week-26	36,37,38	20	20	42,43	7	<b>Total Number of DPPs</b>					<b>258</b>	
13	Week-13	6,7	4	3,4	7,8	7	27	Week-27	0	0	0	0								
14	Week-14	8,9,10	5,6	5	9,10,11	9	28	Week-28	39,40,41	21,22	21	44,45,46	9							

P: Physics | C (P): Chemistry (Physical) | C (I/O): Chemistry (Inorganic/Organic) | M: Mathematics

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