

Academic Session: 2018-19

## COURSE PLANNER

For Students of

### CLASS-XI | VIKAAS (01JA)

Target: JEE (Main + Advanced) 2020

Medium: English | Hindi

#### COURSE CONCEPT

A Course which offers ample time of 2 years to become an expert in the curriculum of JEE (Main + Advanced). The course progresses with basic fundamental study; covering upon the syllabus of boards alongwith the preparation for JEE (Main + Advanced). The course helps in development of concepts, rigorous practice for board examinations as well as competitive examinations, enhancement of analytical thinking and increasing the confidence level of IIT aspirants.

Course Commencement: 09.04.2018 | Course End: 07.01.2019

#### 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:** 469 (P: 143 | C: 183 | M: 143)
- ◆ **Duration of one lecture:** 1.5 hrs = 90 minutes
- ◆ **Total Duration of Classroom Teaching:** 704 hrs
- ◆ **Total Duration of Testing Hours (ACTs/APTs/ MCTs/BPTs/MT/AIOT):** 69 hrs
- ◆ **Total Academic Hours in VIKAAS Course:** 773 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. Test 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		Periodic Test Syllabus			Testing Hours	
							Mathematics	Chemistry		Physical/ Inorganic	Organic		Mathematics
								Chemistry	Mathematics				
1	APT-1	JEE (Advanced)	29-04-18 (Sunday)	03-05-18 (Thursday)	08-05-18 (Tuesday)	10-05-18 (Thursday)	Mathematical Tools	Introduction to Chemistry & Atomic Structure (upto Discovery of subatomic particles)	IUPAC Nomenclature (upto non-chain terminating Functional groups)	Fundamentals of Mathematics-I : (Upto Logarithm : Definition, Identity, Properties, Graph)	6		
2	MCT-1	JEE (Main)	20-05-18 (Sunday)	24-05-18 (Thursday)	29-05-18 (Tuesday)	31-05-18 (Thursday)	Mathematical Tools, Rectilinear Motion, Projectile Motion (ground to ground)	Introduction to Chemistry & Atomic Structure (upto Photoelectric Effect)	IUPAC Nomenclature & Structural Isomerism Complete	Fundamentals of Mathematics-I, Quadratic Equation (Upto Theory of equation)	3		
3	ACT-1	JEE (Advanced)	10-06-18 (Sunday)	14-06-18 (Thursday)	19-06-18 (Tuesday)	21-06-18 (Thursday)	Mathematical Tools, Rectilinear Motion, Projectile Motion, Relative Motion complete	Introduction to Chemistry & Atomic Structure (upto Spectral lines)	IUPAC Nomenclature, Structural Isomerism, Structural Identification, General Introduction of Periodic Table	Fundamentals of Mathematics-I, Quadratic Equation	6		
4	MCT-2 + BPT-1	JEE (Main)+ Board	01-07-18 (Sunday)	05-07-18 (Thursday)	10-07-18 (Tuesday)	12-07-18 (Thursday)	Mathematical Tools, Rectilinear Motion, Projectile Motion & Newton's law's of motion complete	Introduction to Chemistry + Atomic Structure + Mole Concept (upto minimum molecular mass determination)	Structural Isomerism, Structural identification, Periodic Table & BIN	Fundamentals of Mathematics-I, Quadratic Equation, Trigonometry	6		
5	APT-2	JEE (Advanced)	22-07-18 (Sunday)	26-07-18 (Thursday)	31-07-18 (Tuesday)	02-08-18 (Thursday)	Rectilinear Motion, Projectile Motion, Relative Motion, NLM, Friction, Work, Power & Energy (upto section B)	Introduction to Chemistry, Atomic Structure, Mole Concept (upto Balancing of Redox Reactions)	Periodic Table & BIN, ABC-1	Quadratic, Trigonometry, Sequence & Series	6		
6	ACT-2	JEE (Advanced)	12-08-18 (Sunday)	16-08-18 (Thursday)	21-08-18 (Tuesday)	23-08-18 (Thursday)	Rectilinear, Projectile & Relative Motion, NLM, Friction, Work, Power, Energy, Circular motion, COM (up to Calculation of center of mass)	Introduction to Chemistry, Atomic Structure, Mole Concept, Gaseous state 1 (Upto Graham's law)	Periodic Table & BIN, ABC-1 & 2, Chemical Bonding-1	FDM-I, Quadratic Equation, Trigonometry, Sequence & Series, FDM-II	6		
7	MCT-3 + BPT-2	JEE (Main)+ Board	09-09-18 (Sunday)	13-09-18 (Thursday)	18-09-18 (Tuesday)	20-09-18 (Thursday)	Rectilinear, Projectile & Relative Motion, NLM, Friction, WPE, Circular Motion, COM, RBD (Section A, B, C, D)	Introduction to Chemistry, Atomic Structure, Mole Concept, Gaseous state 1, Chemical Equilibrium	Periodic Table & BIN ABC-1 & 2, CB-1 & CB-2	FDM-I & II, Quadratic Equation, Trigonometry, Sequence Series, Binomial Theorem, P&C (Upto Circular arrangement)	6		
8	APT-3	JEE (Advanced)	30-09-18 (Sunday)	04-10-18 (Thursday)	09-10-18 (Tuesday)	11-10-18 (Thursday)	Circular motion, Centre of mass, Rigid body dynamics & Simple harmonic motion (Section A)	Mole Concept, Gaseous state1, Chemical Equilibrium, Gaseous state2, Thermodynamics (upto Calculation of work- Isothermal, isochoric, isobaric)	Chemical Bonding	FDM-II, Binomial Theorem, P&C, Straight Line	6		
9	ACT-3	JEE (Advanced)	18-11-18 (Sunday)	22-11-18 (Thursday)	27-11-18 (Tuesday)	29-11-18 (Thursday)	Rectilinear, Projectile & Relative Motion, NLM, Friction, WPE, Circular motion, COM, RBD & SHM, Fluid mechanics, Surface tension, Elasticity & viscosity Error	Introduction to Chemistry, Atomic Structure, Mole Concept, Gaseous state1, Chemical Equilibrium, Gaseous state2, Thermodynamics, ionic (elementary)	ABC-1 to 4 & Chemical Bonding-1 to 5 & GOC-I (upto inductive effect)	FDM-I & II, Quadratic Equation, Trigonometry, Sequence & Series, Binomial Theorem, P&C, Straight Line, Solution of Triangle	6		
10	MCT-4 + BPT-3	JEE (Main)+ Board	09-12-18 (Sunday)	13-12-18 (Thursday)	18-12-18 (Tuesday)	20-12-18 (Thursday)	Rectilinear, Projectile & Relative Motion, NLM, Friction, WPE, Circular motion, COM, RBD & SHM, Fluid mechanics, Surface tension, Elasticity & viscosity, String wave, Sound wave	Introduction to Chemistry, Atomic Structure, Mole Concept, Gaseous, state1, Chemical Equilibrium, Gaseous state2, Thermodynamics, Ionic (elementary)	Chemical Bonding-1 to 5 & GOC-I	FDM-I & II, Quadratic Equation, Trigonometry, Sequence & Series, Binomial Theorem, P&C, Straight Line, Mathematical Induction, Statistics, SOT, Mathematical Reasoning, Circle (Upto Family of circle)	6		
11	MT	JEE (Main)	04-01-19 (Friday)	10-01-19 (Thursday)	15-01-19 (Tuesday)	17-01-19 (Thursday)	Full Syllabus Class-XI	Full Syllabus Class-XI	Full Syllabus Class-XI	Full Syllabus Class-XI	3		
12	MT	JEE (Advanced)	06-01-19 (Sunday)	10-01-19 (Thursday)	15-01-19 (Tuesday)	17-01-19 (Thursday)	Full Syllabus Class-XI	Full Syllabus Class-XI	Full Syllabus Class-XI	Full Syllabus Class-XI	6		
13	AOT	JEE (Main)	10-02-19 (Sunday)	14-02-19 (Thursday)	19-02-19 (Tuesday)	21-02-19 (Thursday)	Full Syllabus Class-XI	Full Syllabus Class-XI	Full Syllabus Class-XI	Full Syllabus Class-XI	3		
<b>Total Testing Hours</b>											<b>69</b>		

**Date of Refreshing of Batches:** 24-06-2018, 14:10:2018

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/ CIs (except BPTs).

3. Student can submit their request to Result Section for re-evaluation in two working days after first display of result.

## RESONANCE BOARD WORKSHEET (RBW) SCHEDULE

PHYSICS		
Week No.	RBW Dist. Date	RBW No.
W-2	16-04-2018	1
W-6	14-05-2018	2
W-11	18-06-2018	3
W-14	09-07-2018	4
W-19	13-08-2018	5
W-24	17-09-2018	6
W-29	22-10-2018	7
W-37	17-12-2018	8
<b>TOTAL RBWs</b>		<b>8</b>

CHEMISTRY		
Week No.	RBW Dist. Date	RBW No.
W-12	25-06-2018 (P)	1
W-20	20-08-2018 (P)	2
W-24	17-09-2018 (P)	3
W-28	15-10-2018 (P)	4
W-35	03-12-2018 (P)	5
W-07	21-05-2018 (O/I)	1
W-12	25-06-2018 (O/I)	2
W-22	03-09-2018 (O/I)	3
W-29	22-10-2018 (O/I)	4
W-37	17-12-2018 (O/I)	5
<b>TOTAL RBWs</b>		<b>10</b>

MATHEMATICS		
Week No.	RBW Dist. Date	RBW No.
W-5	07-05-2018	1
W-8	28-05-2018	2
W-12	25-06-2018	3
W-16	23-07-2018	4
W-20	20-08-2018	5
W-24	17-09-2018	6
W-29	22-10-2018	7
W-34	26-11-2018	8
<b>TOTAL RBWs</b>		<b>8</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-1	A1,2	A1	A1	A1,2	6	15	Week-15	9,10,11	4	4	9,10,11	8	29	Week-29	4,5	2	0	4,5	5
2	Week-2	3,4,5	2	2	3,4,5	8	16	Week-16	12,13,14	5	5	12,13,14	8	30	Week-30	6,7,8	3	2	6,7,8	8
3	Week-3	6,7,8	3	3	6,7,8	8	17	Week-17	15,16	6	6	15,16	6	31	Week-31	Diwali Vacations				
4	Week-4	9,10	4	4	9,10	6	18	Week-18	17,18,19	7	7	17,18,19	8	32	Week-32	0	4	0	0	1
5	Week-5	11,12,13	5	5	11,12,13	8	19	Week-19	20,21	8	8	20,21	6	33	Week-33	9,10,11	5	3	9,10,11	8
6	Week-6	14,15,16	6	6	14,15,16	8	20	Week-20	22,23	9	9	22,23	6	34	Week-34	12,13,14	6	4,5	12,13,14	9
7	Week-7	17,18	7	7,8	17,18	7	21	Week-21	24,25,26	10	10	24,25,26	8	35	Week-35	15,16	7	6	15,16	6
8	Week-8	19,20,21	8	9	19,20,21	8	22	Week-22	27,28,29	11	11	27,28,29	8	36	Week-36	17,18,19	8	7,8	17,18,19	9
9	Week-9	22,23,24	9	10,11	22,23,24	9	23	Week-23	30,31,32	12	12	30,31,32	8	37	Week-37	20,21,22	9	9	20,21,22	8
10	Week-10	25,26	10	12	25,26	6	24	Week-24	33,34,35	13	13	33,34,35	8	38	Week-38	23,24,25	10	10,11	23,24,25	9
11	Week-11	27,28,29	11	0	27,28,29	7	25	Week-25	36,37	14	14	36,37	6	39	Week-39	26	0	0	26	2
12	Week-12	B1,2,3	B1	B1	B1,2,3	8	26	Week-26	38,39	15	0	38,39	5	40	Week-40	0	0	0	0	0
13	Week-13	4,5	2	2	4,5	6	27	Week-27	40,41,42	16	15	40,41,42	8	<b>Total Number of DPPs</b>				<b>269</b>		
14	Week-14	6,7,8	3	3	6,7,8	8	28	Week-28	C1,2,3	C1	C1	C1,2,3	8							

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

### Resonance Eduventures Ltd.

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**STUDY CENTRES (Self Owned):** Jaipur: 07446655122 | Bhubaneswar: 07446655055 | Udaipur: 07446655577 | Jodhpur: 07446655133 | Agra: 07446655001 | Ranchi: 07446655533  
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