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# COURSE PLANNER FOR STUDENTS

## CLASS-XIII | AJAY (ER\*)

**Target: JEE (Main) 2020**

**Medium: English | Hindi**

### COURSE CONCEPT

A Course which offers ample time of 1 year to become an expert in the curriculum of JEE (Main). The course progresses with basic fundamental study (At Kota study centre) alongwith the preparation for JEE (Main). The course helps in development of concepts, enhancement of analytical thinking and increasing the confidence level of aspirant.

**Course Commencement: 03.06.2019 | Course Ends: 07.03.2020**

Merge in O1ER: 1 September, 2019

### RESONANCE TEACHING METHODOLOGY

#### Preparation for JEE (Main)

Classroom Teaching	MPT - Main Pattern Part Test
Daily Practice Problems (DPPs)	MCT - Main Pattern Cumulative Test
Study Material (Sheets/Modules)	Doubt Classes

### TEACHING/ LEARNING TOOLS

- ♦ **Daily Practice Problems (DPPs):** A handout having problems for home assignment, practice and classroom discussion covering current and previous topics. Most of the DPPs contains upto 10 problems or more.
- ♦ **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) along with school exam material is provided.
- ♦ **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) in offline and online mode. Board Practice Tests (BPTs) are also conducted.

### TOTAL ACADEMIC HOURS

- ♦ **Course Duration: 40 Weeks**
- ♦ **Total Number of Lectures: 548** (P: 179 | C: 190 | M: 179)
- ♦ **Duration of one lecture: 1.75 hrs = 105 minutes**
- ♦ **Total Duration of Classroom Teaching: 959 hrs**
- ♦ **Total Duration of Testing Hours (MCTs/MPTs/MT/AIOT): 48 hrs**
- ♦ **Total Academic Hours in AJAY Course: 1007 hrs**

#### 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.

**Holidays/ Vacations (Total: 11 Days):** 1. Independence Day: 15<sup>th</sup> August, 2019 : One Day 2. Deepawali Holidays: From 24<sup>th</sup> October, 2019 (Thursday) to 02<sup>nd</sup> November, 2019 (Wednesday): 09 Days 3. Republic Day: 26<sup>th</sup> January, 2020: One Day (Applicable only at Kota SC and at other SCs Deepawali vacation will be informed to students as per respective SC holiday calendar)



# 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	Periodic Test Syllabus		Testing Hours
								Chemistry	Mathematics	
								Physical/ Inorganic	Organic	
1	MPT-1	JEE (MAIN)	30-06-19 (SUNDAY)				Rectilinear Motion, Projectile Motion, relative Motion, Geometrical Optics (Up to Spherical Mirror)	Mole concept + QMM	IUPAC Nomenclature & Structural isomerism	3
2	MCT-1	JEE (MAIN)	04-08-19 (SUNDAY)				Rectilinear Motion, Projectile Motion, Relative motion, Geometrical Optics, NLM	Mole concept, QMM, Periodic Table & Real Gas, Chemical Bonding-1 (All Cheminfos and Handouts Till date)	IUPAC Nomenclature, Structural isomerism, Structure Identification & POC-I, GOC-I (upto Mesomeric effect)	3
3	MPT-2	JEE (MAIN)	18-08-19 (SUNDAY)				Geometrical Optics, Newtons laws of Motion, Friction, Work Power & Energy	Mole concept + QMM, Periodic table, Real Gas & Chemical bonding (upto Hybridization)	Structure Identification, POC & GOC-I Complete	3
4	MCT-2	JEE (MAIN)	08-09-19 (SUNDAY)				Rectilinear Motion, Projectile Motion, Relative motion, Geometrical Optics, NLM, Friction, WPE, Electrostatics, Gravitation, Current electricity up to Electric power and battery	Mole concept, QMM, Periodic Table & Real Gas, Chemical Bonding, Chemical Equilibrium (All Cheminfos and Handouts Till date)	POC-I, GOC-I & GOC-II (upto Basic strength of organic compounds)	3
5	MPT-3	JEE (MAIN)	29-09-19 (SUNDAY)				Electrostatics, Gravitation, Current electricity, Capacitance, Circular Motion	Chemical bonding + Chemical equilibrium + ionic equilibrium + coordination compound Nomenclature	GOC-II, Polymers, Stereoisomerism & ORM - I Full Acid base reaction	3
6	MCT-3	JEE (MAIN)	24-11-19 (SUNDAY)				Rectilinear Motion, Projectile Motion, Relative motion, Geometrical Optics, NLM, Friction, WPE, Electrostatics, Gravitation, Current electricity, Capacitance, Circular Motion, Centre of mass, RBD, SHM, String wave, Sound wave up to speed of sound waves	Mole concept, QMM, Periodic table, Real Gas, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (elementary), Coordination compounds, Electrochemistry, Metallurgy, Qualitative Analysis-I, p-Block(Halogen & Noble gases) (All Cheminfos and Handouts Till date)	Stereoisomerism (Mains), ORM-I & ORM-II, Reduction, Oxidation	3
7	MPT-4	JEE (MAIN)	15-12-19 (SUNDAY)				Centre of mass, RBD, SHM, String wave, Sound wave, Wave Optics, EMW, Solid & Semi Conductor, POC, Error & Measurement	Coordination compound + electrochemistry + metallurgy + s-Block + p-Block (B & C) family + equivalent concept + Chemical kinetics	ORM-II, ORM-III & Reduction-Oxidation	3
8	AJOT 1 (MAIN)	JEE (MAIN)	29-12-19 (SUNDAY)				Full syllabus	Full Syllabus	Full Syllabus	3
9	MJMT 1	JEE (MAIN)	31-12-19				Full syllabus	Full Syllabus	Full Syllabus	3
10	MJMT 2	JEE (MAIN)	02-01-20				Full syllabus	Full Syllabus	Full Syllabus	3
11	MCT-4	JEE (MAIN)	02-02-20 (SUNDAY)				Rectilinear Motion, Projectile Motion, Relative motion, Geometrical Optics, NLM, Friction, WPE, Electrostatics, Gravitation, Current electricity, Capacitance, Circular Motion, Centre of mass, RBD, SHM, String wave, Sound Wave, Wave Optics, EMW, Solid & Semi Conductor, POC, EMF EMI, AC	Mole Concept + Quantum Mechanical model of atom (QMM) + Periodic Table + Real Gases + Chemical Bonding + Chemical Equilibrium + Ionic Equilibrium (Elementary) + Coordination compounds + Electrochemistry + Metallurgy + s-Block (Element) + p-Block (B & C family) + Equivalent Concept	Fundamentals of Mathematics, Quadratic Equation, Relations, Function & ITF, Statistics, Sequence & Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Differentiability, Application of Derivatives, Mathematical Reasoning, Conic Section, Indefinite Integration, Definite Integration & Its Application, Vector & 3-D, Complex Number	3
12	AJOT-2 (MAIN)	JEE (MAIN)	16-02-20				Full syllabus	Full Syllabus	Full Syllabus	3
13	MT (MAIN)	JEE (MAIN)	06-03-20				Full syllabus	Full Syllabus	Full Syllabus	3
14	JPT-1 (MAIN)	SAME AS 01JR	15-03-20				Full syllabus	Full Syllabus	Full Syllabus	3
15	JPT-2 (MAIN)	SAME AS 01JR	22-03-20				Full syllabus	Full Syllabus	Full Syllabus	3
16	JPT-3 (MAIN)	SAME AS 01JR	29-03-20				Full syllabus	Full Syllabus	Full Syllabus	3
<b>Within 4 (Four) Days of Test Conduction</b>										
<b>Within 1 Week of Test Conduction</b>										
<b>Within 2 Weeks of Test Conduction</b>										
<b>Total Testing Hours</b>										<b>48</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.

## 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	W1	A1,2	A1,2	0	A1,2	6	14	W14	B1,2,3	B1,2	B1	B1,2,3	9	27	W27	29,30	21,22	13	29,30	7
2	W2	3,4,5	3,4	A1	3,4,5	9	15	W15	4,5	3,4	2	4,5	7	28	W28	31,32	23,24	14	31,32	7
3	W3	6,7,8	5	2	6,7,8	8	16	W16	6,7,8	5,6	3	6,7,8	9	29	W29	33,34	25	15	33,34	6
4	W4	9,10	6	0	9,10	5	17	W17	9,10,11	7,8	4	9,10,11	9	30	W30	35,36	26	16	35,36	6
5	W5	11,12	7	3	11,12	6	18	W18	12,13,14	9,10	5	12,13,14	9	31	W31	0	0	0	0	0
6	W6	13,14	8	4	13,14	6	19	W19	15,16	11,12	6	15,16	7	32	W32	0	0	0	0	0
7	W7	15,16	9	5	15,16	6	20	W20	17,18,19	0	7	17,18,19	7	33	W33	37,38	27	17	37,38	6
8	W8	17,18	10	6	17,18	6	21	W21	20	0	8	20	3	34	W34	39,40,41	28	18	39,40,41	8
9	W9	19,20	11	7	19,20	6	22	W22	<b>DIWLVCTIONS</b>				35	W35	42,43	29	19	42,43	6	
10	W10	21,22	12	8	21,22	6	23	W23	21,22	13,14	9	21,22	7	36	W36	44,45	30	0	44,45	5
11	W11	23,24,25	13,14	9	23,24,25	9	24	W24	23,24	15,16	10	23,24	7	37	W37	46,47	0	20	46,47	5
12	W12	26,27	15,16	10	26,27	7	25	W25	25,26	17,18	11	25,26	7	38	W38	48,49	0	21	48,49	5
13	W13	28,29,30	0	11	28,,29,30	7	26	W26	27,28	19,20	12	27,28	7	39	W39	50,51	0	22	50,51	5
															<b>Total Number of DPPs</b>				<b>241</b>	

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

### RESONANCE EDUVENTURES LTD.

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