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# COURSE PLANNER FOR STUDENTS

## CLASS-XIII | ABHYAAS (ED03)

**Target: JEE (Main) 2020**

**Medium: English | Hindi**

### COURSE CONCEPT

This course offers one year preparation for XII pass student for JEE (Main). The syllabus will end in December to give extra edge to the student for January attempt. Then January to March revision program will help him to enhance his result in JEE (Main) April attempt.

**Course Commencement: 29.04.2019 | Course Ends: 29.12.2019**

**Reshuffling Date: 09 June, 2019 & 01 September, 2019 (ED 01) Merge Date 09 June, 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.

### TOTAL ACADEMIC HOURS

- ◆ **Course Duration: 35 Weeks**
- ◆ **Total Number of Lectures: 546** (P: 178 | C: 190 | M: 178)
- ◆ **Duration of one lecture: 1 hr 45 Min. = 105 minutes**
- ◆ **Total Duration of Classroom Teaching: 955.5 hrs**
- ◆ **Total Duration of Testing Hours (MCTs/MPTs/MT/AIOT): 51 hrs**
- ◆ **Total Academic Hours in ABHYAAS Course: 1006.5 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)

## SUBJECT WISE SYLLABUS PLAN

- ◆ Topic Name
- ◆ Topic Sequence

- ◆ Topic Commencement
- ◆ No. of Lectures allotted to each Topic

PHYSICS (PI)				CHEMISTRY (IC)				MATHEMATICS (MI)			
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	29-04-19	<b>PHYSICAL/INORGANIC</b>				1	FUNDAMENTALS OF MATHEMATICS	12	29-04-19
2	PROJECTILE MOTION	3	03-05-19	1	MOLE CONCEPT	6	29-04-19	2	QUADRATIC EQUATION	7	15-05-19
3	RELATIVE MOTION	5	07-05-19	2	QUANTUM MECHANICAL MODEL OF ATOM (GMVM)	1	08-05-19	3	RELATION, FUNCTION & ITF	13	23-05-19
4	GEOMETRICAL OPTICS	15	13-05-19	3	PERIODIC TABLE	3	09-05-19	4	STATISTICS	2	07-06-19
5	NEWTON'S LAWS OF MOTION	7	31-05-19	4	REAL GASES	3	15-05-19	5	SEQUENCE & SERIES	5	10-06-19
6	FRICTION	3	10-06-19	5	CHEMICAL BONDING	14	21-05-19	6	MATRICES & DETERMINANT	9	17-06-19
7	WORK, POWER, ENERGY	5	13-06-19	6	CHEMICAL EQUILIBRIUM	6	17-06-19	7	STRAIGHT LINE	10	28-06-19
8	ELECTROSTATICS	14	20-06-19	7	IONIC EQUILIBRIUM (ELEMENTARY)	8	01-07-19	8	CIRCLE	7	12-07-19
9	GRAVITATION	3	10-07-19	8	COORDINATION COMPOUNDS	9	17-07-19	9	LIMITS, CONTINUITY & DERIVABILITY	11	23-07-19
10	CURRENT ELECTRICITY	6	15-07-19	9	ELECTROCHEMISTRY	8	07-08-19	10	APPLICATION OF DERIVATIVES	13	08-08-19
11	CAPACITANCE	6	23-07-19	10	METALLURGY	3	27-08-19	11	SOLUTION OF TRIANGLE	3	28-08-19
12	CIRCULAR MOTION	4	31-07-19	11	S-BLOCK (ELEMENT)	3	03-09-19	12	CONIC SECTION	15	02-09-19
13	CENTRE OF MASS	6	07-08-19	12	P-BLOCK (B & C FAMILY)	4	09-09-19	13	INDEFINITE INTEGRATION	6	20-09-19
14	RIGID BODY DYNAMICS	11	16-08-19	13	EQUIVALENT CONCEPT	4	16-09-19	14	DEFINITE INTEGRATION & ITS APPLICATION	13	27-09-19
15	SIMPLE HARMONIC MOTION	7	02-09-19	14	CHEMICAL KINETICS	7	23-09-19	15	Differential Equation	5	15-10-19
16	STRING WAVE	5	12-09-19	15	P-BLOCK (N & O)	4	03-10-19	16	MATHEMATICAL REASONING	3	21-10-19
17	SOUND WAVE	7	18-09-19	16	SOLUTION & COLLIGATIVE PROPERTIES	8	10-10-19	17	VECTOR & 3-D	13	04-11-19
18	WAVE OPTICS	4	26-09-19	17	SURFACE CHEMISTRY	3	04-11-19	18	COMPLEX NUMBER	10	19-11-19
19	EM WAVE	1	01-10-19	18	SOLID STATE	6	07-11-19	19	BINOMIAL THEOREM	6	02-12-19
20	SEMICONDUCTOR	3	02-10-19	19	HALOGEN NOBLE GAS	5	19-11-19	20	PERMUTATION & COMBINATION	10	09-12-19
21	POC	2	07-10-19	20	THERMODYNAMICS	10	26-11-19	21	PROBABILITY	5	23-12-19
22	EMF	7	09-10-19	21	D-BLOCK ELEMENT	4	12-12-19				
23	EMI	6	17-10-19	<b>ORGANIC</b>							
24	ALTERNATING CURRENT	4	04-11-19	1	IUPAC NOMENCLATURE	4	29-04-19				
25	MODERN PHYSICS-I	12	06-11-19	2	STRUCTURAL ISOMERISM	1	07-05-19				
26	NUCLEAR PHYSICS	4	25-11-19	3	STRUCTURE IDENTIFICATION AND POC-I	4	08-05-19				
27	FLUID MECHANICS	4	29-11-19	4	GOC-I	7	21-05-19				
28	SURFACE TENSION	3	04-12-19	5	GOC-II	6	10-06-19				
29	ELASTICITY AND VISCOSITY	1	07-12-19	6	STEREIOISOMERISM	6	01-07-19				
30	KTG AND THERMODYNAMICS	8	09-12-19	7	ORM-I	5	22-07-19				
31	CALORIMETRY & THERMAL EXPANSION	3	19-12-19	8	ORM-II	7	06-08-19				
32	HEAT TRANSFER	5	23-12-19	9	REDUCTION, OXIDATION & HYDROLYSIS	4	02-09-19				
				10	ORM-III	5	16-09-19				
				11	ORM-IV	4	01-10-19				
				12	AROMATIC	3	15-10-19				
				13	CARBONYL COMPOUNDS	4	11-11-19				
				14	ACID & DERIVATIVES	1	25-11-19				
				15	BIOMOLECULES	3	26-11-19				
				16	POLYMER	1	09-12-19				
				17	PHYSICAL PROPERTIES & CHEMISTRY IN EVERYDAY LIFE	1	10-12-19				
				18	CHEMISTRY IN EVERYDAY LIFE	1	16-12-19				
				19	ENVIRONMENTAL CHEMISTRY	2	17-12-19				
	<b>Total No. of Lectures</b>	<b>178</b>			<b>Total No. of Lectures</b>	<b>188</b>			<b>Total No. of Lectures</b>	<b>178</b>	

## WEEKLY LECTURE PLANNER (Per Subject)

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W1	29/04	04/05	6	4	3	5	18
W2	06/05	11/05	6	4	3	5	18
W3	13/05	18/05	6	4	2	6	18
W4	20/05	25/05	5	4	3	6	18
W5	27/05	01/06	6	4	2	6	18
W6	03/06	08/06	5	4	3	6	18
W7	10/06	15/06	5	3	2	5	15
W8	17/06	22/06	5	3	2	5	15
W9	24/06	29/06	5	3	2	5	15
W10	01/07	06/07	5	3	2	5	15
W11	08/07	13/07	5	3	2	5	15
W12	15/07	20/07	5	3	2	5	15

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W13	22/07	27/07	5	3	2	5	15
W14	29/07	03/08	4	3	2	4	13
W15	05/08	10/08	5	3	2	5	15
W16	12/08	17/08	4	3	2	4	13
W17	19/08	24/08	5	3	2	5	15
W18	26/08	31/08	5	3	2	5	15
W19	02/09	07/09	4	4	2	5	15
W20	09/09	14/09	6	4	2	6	18
W21	16/09	21/09	6	4	2	6	18
W22	23/09	28/09	6	4	2	6	18
W23	30/09	05/10	5	4	2	4	15
W24	07/10	12/10	6	4	2	6	18

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W25	14/10	19/10	6	4	2	6	18
W26	21/10	26/10	3	3	0	3	9
W27	28/10	02/11	0	0	0	0	0
W28	04/11	09/11	6	4	2	6	18
W29	11/11	16/11	6	4	2	6	18
W30	18/11	23/11	4	4	2	5	15
W31	25/11	30/11	6	4	2	6	18
W32	02/12	07/12	6	4	2	6	18
W33	09/12	14/12	5	4	2	4	15
W34	16/12	21/12	6	4	2	6	18
W35	23/12	28/12	5	4	1	5	15

# PERIODIC TEST SCHEDULE & RESULT COMMUNICATION

S. No.	Periodic Test Type and No.	Test Pattern Mode	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	Periodic Test Syllabus			Testing Hours
							Physics	Chemistry	Mathematics	
							Physical/ Inorganic	Organic		
1	MPT-1	MAIN	19-05-19				Mole Concept	IUPAC naming & Structure isomers	Fundamentals of Mathematics	3
2	MCT-1	MAIN	02-06-19				Mole concept, QMM, Periodic Table & Real Gas, Chemical Bonding (All ChemInfrics and Handouts Till date)	IUPAC naming, Structure isomers & Structure identification, POC	Fundamentals of Mathematics, Quadratic Equation,	3
3	MPT-2	MAIN	23-06-19				QMM + Real Gas, Chemical bonding (upto MOT)	Structure identification, POC & GOC-1	Quadratic Equation, Relation and Function & IIT, Statistics, Sequence & Series	3
4	MCT-2	MAIN	14-07-19				Mole concept, QMM, Periodic Table & Real Gas, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary) (upto salt hydrolysis) (All ChemInfrics and Handouts Till date)	GOC-1 & GOC-2	Fundamentals of Mathematics, Quadratic Equation, Relation, Function & IIT, Statistics, Sequence & Series, Matrices & Determinant	3
5	MPT-3	MAIN	04-08-19				Periodic Table, Real Gases & Chemical Bonding, Chemical Equilibrium & Ionic Equilibrium	GOC-II & Geometrical isomerism	Quadratic Equation, Relations, Function & IIT, Statistics, Sequence & Series, Matrices & Determinant, Straight Line	3
6	MCT-3	MAIN	18-08-19				Mole Concept, Quantum Mechanical, Periodic Table & Real Gases, Chemical Bonding & Chemical Equilibrium, Ionic Equilibrium, Coordination compounds	GOC-I, GOC-II, Stereoisomerism & ORM-I	Fundamentals of Mathematics, Quadratic Equation, Relations, Function & IIT, Statistics, Sequence & Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability (Up to limit only)	3
7	MCT-4	MAIN	08-09-19				Mole concept, QMM, Periodic table, Real Gas, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary), Coordination compounds, Electrochemistry, Metallurgy (All ChemInfrics and Handouts Till date)	Stereoisomerism, ORM-I & ORM-II	Fundamentals of Mathematics, Quadratic Equation, Relation, Function & IIT, Statistics, Sequence & Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability, Application of Derivatives	3
8	MPT-4	MAIN	29-09-19				Coordination compounds	ORM-I, ORM-II, Reduction, Oxidation & Hydrolysis	Circle, Limits, Continuity & Derivability, Application of Derivatives, Solution of Triangle, Conic Section	3
9	MCT-5	MAIN	24-11-19				Electrochemistry, Metallurgy & s-Block (Element), p-Block (B & C family)		Fundamentals of Mathematics, Quadratic Equation, Relations, Function & IIT, Statistics, Sequence & Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability, Application of Derivatives, Solution of Triangle, Conic Section, Indefinite Integration, Definite Integration & Its Application, Differential Equation, Mathematical reasoning, Vector & 3-D (upto cross product of two vectors)	3
10	MPT-5	MAIN	15-12-19				Solution Coligative, Surface Chemistry, Solid State, Halogen Noble Gas, Thermodynamics & Thermochemistry	Aromatic & Carbonyl compounds	Definite Integration & Its Application, Differential Equation, Mathematical reasoning, Vector & 3-D, Complex Number	3
11	AIOI-1 (MAIN)	MAIN	29-12-19				FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	3
12	MMT-1	MAIN	31-12-19				FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	3
13	MMT-2	MAIN	02-01-20				FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	3
14	AIOI2 (MAIN)	MAIN	16-02-20				FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	3
15	JPT-1 (MAIN)	MAIN	15-03-20				FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	3
16	JPT-2 (MAIN)	MAIN	22-03-20				FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	3
17	JPT-3 (MAIN)	MAIN	29-03-20				FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	3
WITHIN 4 (FOUR) DAYS OF TEST CONDUCTION WITHIN 1 WEEK OF TEST CONDUCTION WITHIN 2 WEEKS OF TEST CONDUCTION										
<b>Total Testing Hours</b>										<b>51</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/ CIs (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	A1,2,3	0	A1	A1,2,3	7	13	W13	37,38	19	14	37, 38	8	25	W25	15,16,17	6	7	15, 16, 17	8
2	W2	4, 5, 6	A1, A2	2	4, 5, 6	9	14	W14	39,40	20, 21	15	39, 40	7	26	W26	0	7	0	0	1
3	W3	7, 8, 9	3, 4	3	7,8,9	9	15	W15	41,42	22	16	41, 42	6	27	W27	0	8, 9	0	0	2
4	W4	10, 11, 12	5, 6	4	10, 11, 12	9	16	W16	43,44	23	17	43, 44	6	28	W28	18,19,20	0	8	18, 19, 20	7
5	W5	13, 14, 15	7, 8	5	13, 14, 15	9	17	W17	45,46	24, 25	18	45, 46	7	29	W29	21,22	0	9	21, 22	5
6	W6	16,17,18	9	6, 7	16, 17, 18	9	18	W18	47,48	26	19	47, 48	6	30	W30	23,24	10, 11	10	23, 24	7
7	W7	19,20,21	10	8	19,20,21	8	19	W19	B1,2	27, 28	B1	B1,2	7	31	W31	25,26	12	11	25, 26	6
8	W8	22,23,24	11, 12	9	22, 23, 24	9	20	W20	3, 4	29	2	3, 4	6	32	W32	27,28	13	12	27, 28	6
9	W9	25,26,27	13, 14	10	25, 26, 27	9	21	W21	5,6,7	B1	3	5, 6, 7	8	33	W33	29,30	14	13	29, 30	6
10	W10	28,29,30	15, 16	11	28, 29, 30	9	22	W22	8,9,10	2, 3	4	8, 9, 10	9	34	W34	31,32	15, 16	14	31, 32	7
11	W11	31,32,33	17	12	31, 32, 33	8	23	W23	11,12	4	5	11, 12	8	35	W35	33	17	15	33	4
12	W12	34,35,36	18	13	34, 35, 36	8	24	W24	13,14	5	6	13, 14	8	<b>Total Number of DPPs</b>					<b>249</b>	

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

### RESONANCE EDUVENTURES LTD.

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