

**TARGET\*:**  
**NITs**  
**IIITs**  
**CFTIs**  
**SFTIs**

Excelling in IIT-JEE Since 2001...



**Resonance**<sup>®</sup>  
 Educating for better tomorrow

...Growing in JEE (Main) Since 2009

**JEE (MAIN) DIVISION**

**EXPERIENCE**  
**WITH US**

EXCLUSIVITY  
 EXPERTISE  
 EXCELLENCE

# COURSE PLANNER FOR STUDENTS

## CLASS-XIII | ABHYAAS (ED02)

**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: 22.04.2019 | Course Ends: 29.12.2019\***

\*Reshuffling Date: 09 June, 2019 & 01 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.

**Note:** Revision plan in month of January to March for April Attempt will be conveyed later.

**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)

### TOTAL ACADEMIC HOURS

- ◆ **Course Duration: 36 Weeks**
- ◆ **Total Number of Lectures: 544** (P: 178 | C: 188 | M: 178)
- ◆ **Duration of one lecture: 1 hr 45 Min. = 105 minutes**
- ◆ **Total Duration of Classroom Teaching: 952 hrs**
- ◆ **Total Duration of Testing Hours (MCTs/MPTs/MT/AIOT): 51 hrs**
- ◆ **Total Academic Hours in ABHYAAS Course: 1003 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.

## 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	22-04-19	<b>PHYSICAL/INORGANIC</b>				1	FUNDAMENTALS OF MATHEMATICS	12	22-04-19
2	PROJECTILE MOTION	3	26-04-19	1	MOLE CONCEPT	6	22-04-19	2	QUADRATIC EQUATION	7	08-05-19
3	RELATIVE MOTION	5	01-05-19	2	QUANTUM MECHANICAL MODEL OF ATOM (GMVM)	2	01-05-19	3	RELATION, FUNCTION & ITF	13	20-05-19
4	GEOMETRICAL OPTICS	15	08-05-19	3	PERIODIC TABLE	3	06-05-19	4	STATISTICS	2	06-06-19
5	NEWTON'S LAWS OF MOTION	7	29-05-19	4	REAL GASES	4	09-05-19	5	SEQUENCE & SERIES	5	10-06-19
6	FRICTION	3	10-06-19	5	CHEMICAL BONDING	12	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	15-08-19	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	22-04-19				
25	MODERN PHYSICS-I	12	06-11-19	2	STRUCTURAL ISOMERISM	1	06-05-19				
26	NUCLEAR PHYSICS	4	25-11-19	3	STRUCTURE IDENTIFICATION AND POC-I	4	07-05-19				
27	FLUID MECHANICS	4	29-11-19	4	GOC-I	7	20-05-19				
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	22/04	27/04	5	4	2	5	16
W2	29/04	04/05	5	4	2	5	16
W3	06/05	11/05	5	4	2	5	16
W4	13/05	18/05	5	2	3	4	14
W5	20/05	25/05	5	4	2	5	16
W6	27/05	01/06	4	2	3	5	14
W7	03/06	08/06	5	4	2	5	16
W8	10/06	15/06	5	3	2	5	15
W9	17/06	22/06	5	3	2	5	15
W10	24/06	29/06	5	3	2	5	15
W11	01/07	06/07	5	3	2	5	15
W12	08/07	13/07	5	3	2	5	15

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W13	15/07	20/07	5	3	2	5	15
W14	22/07	27/07	5	3	2	5	15
W15	29/07	03/08	4	3	2	4	13
W16	05/08	10/08	5	3	2	5	15
W17	12/08	17/08	4	3	2	4	13
W18	19/08	24/08	5	3	2	5	15
W19	26/08	31/08	5	3	2	5	15
W20	02/09	07/09	4	4	2	5	15
W21	09/09	14/09	6	4	2	6	18
W22	16/09	21/09	6	4	2	6	18
W23	23/09	28/09	6	4	2	6	18
W24	30/09	05/10	5	4	2	4	15

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W25	07/10	12/10	6	4	2	6	18
W26	14/10	19/10	6	4	2	6	18
W27	21/10	26/10	3	3	0	3	9
W28	28/10	02/11	0	0	0	0	0
W29	04/11	09/11	6	4	2	6	18
W30	11/11	16/11	6	4	2	6	18
W31	18/11	23/11	4	4	2	5	15
W32	25/11	30/11	6	4	2	6	18
W33	02/12	07/12	6	4	2	6	18
W34	09/12	14/12	5	4	2	4	15
W35	16/12	21/12	6	4	2	6	18
W36	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-I (All Cheninifins 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 Cheninifins 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 Cheninifins 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	AJOT-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	AJOT2 (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, A2	0	A1	A1, A2	5	13	W13	34,35,36	19	13	34, 35, 36	8	25	W25	13,14	6	6	13, 14	6
2	W2	3, 4	A1, A2	2	3, 4	7	14	W14	37,38	20, 21	14	37, 38	7	26	W26	15,16,17	7	7	15, 16, 17	8
3	W3	5, 6	3, 4	3	5, 6	7	15	W15	39,40	22	15	39, 40	6	27	W27	0	8, 9	0	0	2
4	W4	7, 8, 9	5, 6	4	7,8,9	9	16	W16	41,42	23	16	41, 42	6	28	W28	<b>DIWALI VACATIONS</b>				
5	W5	10, 11, 12	7, 8	5	10, 11, 12	9	17	W17	43,44	24, 25	17	43, 44	7	29	W29	18,19,20	0	8	18, 19, 20	7
6	W6	13, 14, 15	9	6	13, 14, 15	8	18	W18	45,46	26	18	45, 46	6	30	W30	21,22	10, 11	9	21, 22	7
7	W7	16,17,18	10	7	16, 17, 18	8	19	W19	47,48	27, 28	19	47, 48	7	31	W31	23,24	12	10	23, 24	6
8	W8	19,20,21	11, 12	8	19,20,21	9	20	W20	B1,B2	29	B1	B1, B2	6	32	W32	25,26	13	11	25, 26	6
9	W9	22,23,24	13, 14	9	22, 23, 24	9	21	W21	3, 4	B1	2	3, 4	6	33	W33	27,28	14	12	27, 28	6
10	W10	25,26,27	15, 16	10	25, 26, 27	9	22	W22	5,6,7	2, 3	3	5, 6, 7	9	34	W34	29,30	15, 16	13	29, 30	7
11	W11	28,29,30	17	11	28, 29, 30	8	23	W23	8,9,10	4	4	8, 9, 10	8	35	W35	31,32	17	14	31, 32	6
12	W12	31,32,33	18	12	31, 32, 33	8	24	W24	11,12	5	5	11, 12	6	36	W36	33	18	15	33	4
															<b>Total Number of DPPs</b>				<b>243</b>	

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

### RESONANCE EDUVENTURES LTD.

**JEE (MAIN) & Pre-Medical Division:** CG Tower-2 [A-51 (A)], IPIA, Behind City Mall, Jhalawar Road, Kota (Raj.)-5

**Contact:** 0744-2777744 | **Mob.:** 08505099972/73

**Reg. Office:** CG Tower A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota | **CIN:** U80302RJ2007PLC024029

**Toll Free: 1800 258 5555 | WhatsApp No.: 8003444888 | Website: www.resonance.ac.in**

Scan for JEE (Main)  
FB Page

