Academic Session: 2019-20

TARGET*:
NITs
IIITs
CFTIs
SFTIs

Excelling in IIT-JEE Since 2001...
Resonance®
Educating for better tomorrow
...Growing in JEE (Main) Since 2009

JEE (MAIN) DIVISION

EXPERIENCE WITH US — EXCLUSIVITY | EXPERTISE | EXCELLENCE

COURSE PLANNER FOR STUDENTS

CLASS-XI | ABHINAV (EA04)

Target: JEE (Main) 2021

Medium: English | Hindi

COURSE CONCEPT

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

Course Commencement: 22.04.2019 | Course Ends: 21.01.2020

Reshuffling Date: 30 June, 2019 & 06 October, 2019 (01 EA) Merge Date 30.06.2019

RESONANCE TEACHING METHODOLOGY

Preparation for JEE (Main)	Preparation for Board Examination
Classroom Teaching	Classroom Teaching & NCERT Book Discussion
Daily Practice Problems (DPPs)	Resonance Board Worksheets (RBWs)
Study Material (Sheets/Modules)	Study Material (Sheets/Modules)
MPT - Main Pattern Part Test	Board (BPTs) Pattern Tests
MCT - Main Pattern Cumulative Test	Doubt Classes
Doubt Classes	Support for Fourth Subject (English)*
	Support for Fifth Subject*
	Support for Practical (Physics & Chemistry)

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

TOTAL ACADEMIC HOURS

- **Course Duration:** 40 Weeks
- **Total Number of Lectures: 471** (P: 145 | C: 181 | M: 145)
- **Duration of one lecture:** 1.5 hrs = 90 minutes
- **Total Duration of Classroom Teaching: 706.5** hrs
- **Total Duration of Testing Hours (MCTs/MPTs/BPTs/MT/AIOT): 36** hrs
- **Total Academic Hours in ABHINAV Course: 742.5** hrs

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.
- **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) 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.

Disclaimer:

- The Institute reserves the right to increase/decrease the number of lectures alloted 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: 15th August, 2019 : One Day **2.** Deepawali Holidays: From 24th October, 2019 (Thursday) to 02nd November, 2019 (Wednesday): 09 Days **3.** Republic Day: 26th January, 2020: One Day (Applicable only at Kota SC and at other SC's Deepawali vacation will be informed to students as per respective SC holiday calender)

*NITs: National Institutes of Technology | IIITs: Indian Institutes of Information Technology | CFTIs: Centrally Funded Technical Institutes | SFTIs: Self Financed Technical Institutes

SUBJECT WISE SYLLABUS PLAN

- Topic Name
- Topic Sequence
- Topic Commencement
- No. of Lectures allotted to each Topic

PHYSICS [P]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	MATHEMATICAL TOOLS	12	22.04.19
2	RECTILINEAR MOTION	5	08.05.19
3	PROJECTILE MOTION	6	15.05.19
4	RELATIVE MOTION	6	23.05.19
5	NEWTONS LAWS OF MOTION	10	04.06.19
6	FRICTION	5	19.06.19
7	WORK, POWER & ENERGY	10	25.06.19
8	CIRCULAR MOTION	8	17.07.19
9	CENTRE OF MASS	12	01.08.19
10	RIGID BODY DYNAMICS	14	27.08.19
11	SIMPLE HARMONIC MOTION	9	25.09.19
12	FLUID MECHANICS	7	14.10.19
13	SURFACE TENSION	3	05.11.19
14	UNITS & DIMENSIONS	1	12.11.19
15	ERROR & MEASUREMENT	1	13.11.19
16	ELASTISITY AND VISCOSITY	3	14.11.19
17	STRING WAVES	8	20.11.19
18	SOUND WAVES	7	05.12.19
19	KTG & THERMODYNAMICS	8	18.12.19
20	CALORIMETRY & THERMAL EXPANSION	8	06.01.20
	Total No. of Lectures	**143**	

CHEMISTRY [C]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
	PHYSICAL		
1	INTRODUCTION TO CHEMISTRY	5	22.04.19
2	ATOMIC STRUCTURE	19	06.05.19
3	MOLE CONCEPT	13	01.07.19
4	GASEOUS STATE-1	9	25.07.19
5	CHEMICAL EQUILIBRIUM	8	14.08.19
6	GASEOUS STATE-2	4	03.09.19
7	S-BLOCK	4	11.09.19
8	THERMODYNAMICS & THERMOCHEMISTRY	16	18.09.19
9	P-BLOCK (13-14 GROUPS)	6	04.11.19
10	IONIC EQUILIBRIUM (ELEMENTARY)	17	25.11.19
	ORGANIC / INORGANIC		
1	IUPAC NOMENCLATURE	10	15.04.19
2	STRUCTURAL ISOMERISM	3	20.05.19
3	STRUCTURAL IDENTIFICATION	2	28.05.19
4	ABC-1	4	04.06.19
5	ABC-2	2	17.06.19
6	ABC-3	2	24.06.19
7	PERIODIC TABLE	7	01.07.19
8	BASIC INORGANIC NOMENCLATURE	3	30.07.19
9	CHEMICAL BONDING	23	12.08.19
10	ABC-4	3	04.11.19
11	GOC-I	9	12.11.19
12	GOC-II	12	16.12.19
	Total No. of Lectures	**181**	

MATHEMATICS [M]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	FUNDAMENTALS OF MATHEMATICS -I	15	22.04.19
2	QUADRATIC EQUATION	11	13.05.19
3	TRIGNOMETRY	15	27.05.19
4	SEQUENCE & SERIES	10	17.06.19
5	FUNDAMENTALS OF MATHEMATICS -II	9	01.07.19
6	BINOMIAL THEOREM	9	16.07.19
7	PERMUTATION & COMBINATION	12	31.07.19
8	STRAIGHT LINES	16	26.08.19
9	MATHEMATICAL REASONING	4	30.09.19
10	STATISTICS	5	07.10.19
11	PRINCIPAL OF MATHEMATICAL INDUCTION	2	16.10.19
12	SOLUTION OF TRIANGLE	5	04.11.19
13	CIRCLE	10	13.11.19
14	CONIC SECTION	19	09.12.19
	Total No. of Lectures	**142**	

WEEKLY LECTURE PLANNER (Per Subject)

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C		M	
				P	I/O		
W1	22/04	27/04	5	2	3	5	15
W2	29/04	04/05	5	3	2	5	15
W3	06/05	11/05	5	2	2	5	14
W4	13/05	18/05	5	2	2	6	15
W5	20/05	25/05	4	2	2	5	13
W6	27/05	01/06	4	3	2	5	14
W7	03/06	08/06	4	2	3	5	14
W8	10/06	15/06	5	3	2	5	15
W9	17/06	22/06	4	2	3	5	14
W10	24/06	29/06	4	3	2	5	14
W11	01/07	06/07	3	4	1	4	12
W12	08/07	13/07	3	3	2	4	12
W13	15/07	20/07	4	3	2	4	13
W14	22/07	27/07	3	4	1	4	12

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C		M	
				P	I/O		
W15	29/07	03/08	4	3	2	4	13
W16	05/08	10/08	4	3	2	4	13
W17	12/08	17/08	3	3	2	3	11
W18	19/08	24/08	3	3	2	3	11
W19	26/08	31/08	4	2	3	3	12
W20	02/09	07/09	3	4	2	3	12
W21	09/09	14/09	3	4	2	3	12
W22	16/09	21/09	3	4	2	3	12
W23	23/09	28/09	4	4	2	4	14
W24	30/09	05/10	3	4	2	4	13
W25	07/10	12/10	4	2	2	3	11
W26	14/10	19/10	4	2	3	3	12
W27	21/10	26/10	2	2	1	1	6
W28	28/10	02/11	Diwali Vacation				

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C		M	
				P	I/O		
W29	04/11	09/11	3	2	2	3	10
W30	11/11	16/11	4	2	2	3	11
W31	18/11	23/11	4	2	2	3	11
W32	25/11	30/11	3	2	2	3	10
W33	02/12	07/12	4	2	2	3	11
W34	09/12	14/12	4	2	2	3	11
W35	16/12	21/12	3	2	2	3	10
W36	23/12	28/12	4	2	2	3	11
W37	30/12	04/01	3	2	2	3	10
W38	06/01	11/01	4	1	3	3	11
W39	13/01	18/01	4	3	2	3	12
W40	20/01	25/01	1	1	1	1	4

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	JEE (MAIN)	19-05-19 (Sunday)	Within 4 (four) Days of Test Conduction	Within 1 Week of Test Conduction	Within 2 Weeks of Test Conduction	Mathematical Tools	Introduction to Chemistry, Atomic Structure (upto Rutherford model)	IUPAC Nomenclature (Up to Non-chain terminating functional groups)	Fundamental of Mathematics-I, Quadratic Equation (up to relation between roots and coefficient)	3
2	MCT-1	JEE (MAIN)	23-06-19 (Sunday)				Mathematical Tools, Rectilinear Motion, Projectile Motion, Relative Motion, Newtons Laws of Motion	Introduction to Chemistry, Atomic Structure (Upto Electronic configuration)	IUPAC Nomenclature, Structural Isomers & Structural Identification	Fundamental of Mathematics-I, Quadratic Equation and Trigonometry	3
3	MPT-3	JEE (MAIN)	14-07-19 (Sunday)				Newtons Laws of Motion, Friction, Work Power & Energy (Up to Power)	Introduction to Chemistry, Atomic Structure, Mole Concept (upto Limiting reagent)	ABC-1,2 & 3, Periodic Table (upto Effective Nuclear Charge (Z effective))	Trigonometry , Sequence and Series, FOM-II (Up to inequalities involving modulus)	3
4	MCT-3	JEE (MAIN)	28-07-19 (Sunday)				Mathematical Tools, Rectilinear Motion, Projectile Motion, Relaive motion, Newtons Laws of Motion, Friction, Work Power & Energy	Introduction to Chemistry, Atomic Structure, Mole Concept (upto Balancing of Redox Reactions)	Structural identification, ABC-1, 2, 3 & Periodic table.	Fundamental of Mathematics-I, Quadratic Equation and Trigonometry, Sequence and Series, FOM-II, Binomial theorem (up to problems based on remainder and last digit)	3
5	MPT-4 + BPT-2	JEE (MAIN)	25-08-19 (Sunday)				Friction, Work Power & Energy, Circular Motion	Atomic Structure, Mole Concept Gaseous State-1	Periodic table, BIN & Chemical Bonding (Upto Writing resonating structures, finding average bond order)	MPT-4 :Sequence and Series, FOM-II , Binomial theorem, Permutation and Combination (upto arrangement of objects with few objects identical) BPT-2 : Trigonometry, Sequence and Series, Binomial theorem	6
6	MCT-4	JEE (MAIN)	22-09-19 (Sunday)				Mathematical Tools, Rectilinear Motion, Projectile motion, Relative Motion, Newtons Laws of Motion, Friction, Work Power & Energy, Circular Motion, Centre of Mass	Introduction to Chemistry & Atomic Structure , mole concept ,Gaseous State-1,Gaseous State-2, Chemical Equilibrium, s-Block	IUPAC Nomenclature, Structural isomers, structural identification, ABC-1,2,3 Periodic table, BIN & Chemical Bonding (Upto Bond angle & Bond length / Bond Strength)	Fundamental of Mathematics-I, Quadratic Equation ,Trigonometry, Sequence and Series, FOM-II, Binomial theorem, Permutation and Combination, Straight Line (up to Various forms of straight line and general form)	3
7	MPT-5	JEE (MAIN)	10-11-19 (Sunday)				Centre of Mass, Rigid Body Dynamics, Simple Harmonic Motion, Fluid Mechanics	Gaseous State-2, s-Block, Thermodynamics & Thermochemistry	Chemcial Bonding Complete	Permutation and Combination, Straight Line, Mathematical Reasoning, Statistics	3
8	MPT-6	JEE (MAIN)	01-12-19 (Sunday)				Surface Tension, Units & Dimensions, Error & Measurement, Elastisity & Viscocity	s-Block, Thermodynamics & Thermochemistry, p-Block (13-14 groups)	ABC-4, GOC-1 (upto Resonance effect (Drawing Structure))	Solution of Triangle, Circle (upto tangent of circle in various forms)	3
9	MCT-5	JEE (MAIN)	22-12-19 (Sunday)				Mathematical Tools, Rectilinear Motion, Projectile motion, Relative Motion, Newtons Laws of Motion, Friction, Work Power & Energy, Circular Motion, Centre of Mass, Rigid Body Dynamics, Simple Harmonic Motion, Fluid Mechanics, Surface Tension, Units & Dimensions, Error & Measurement, Elastisity & Viscocity, String Waves, Sound waves	Thermodynamics & Thermochemistry ionic equlibrium (upto pH Calculation of WA,WB pH calculation (of polyprotic WA/WB and their mixtures))	GOC-1 & GOC-2, (Upto Carbanion and its stability)	Fundamental of Mathematics-I, Quadratic Equation ,Trigonometry, Sequence and Series, FOM-II, Binomial theorem, Permutation and Combination, Straight Line, Mathematical reasoning, Statistics, SOT, Circle	3
10	MPT-7	JEE (MAIN)	05-01-20 (Sunday)				String Waves, Sound Waves, KTG & Thermodynamics	s-Block, Thermodynamics & Thermochemistry ionic equlibrium (upto Buffer Solutions)	GOC-I & GOC-II (upto Basic Strength)	Circle, Parabola (Complete) in conics	3
11	MT	JEE (MAIN)	23-01-20 (Sunday)				XI FULL SYLLABUS	XI FULL SYLLABUS	XI FULL SYLLABUS	XI FULL SYLLABUS	3
										Total Testing Hours	**36**

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.

RESONANCE BOARD WORKSHEET (RBW) SCHEDULE

PHYSICS

Week No.	RBW Dist. Date	RBW No.
W-2	29-04-19	1
W-4	13-05-19	2
W-8	10-06-19	3
W-11	01-07-19	4
W-16	05-08-19	5
W-21	09-09-19	6
W-26	14-10-19	7
W-34	09-12-19	8
TOTAL RBWs		**8**

CHEMISTRY

Week No.	RBW Dist. Date	RBW No.
W-8	10-06-19	1 (IO)
W-20	02-09-19	2 (IO)
W-30	11-11-19	3 (IO)
W-8	10-06-19	1 (P)
W-10	01-07-19	2 (P)
W-18	19-08-19	3 (P)
W-20	02-09-19	4 (P)
W-22	16-09-19	5 (P)
W-30	11-11-19	6 (P)
TOTAL RBWs		**9**

MATHEMATICS

Week No.	RBW Dist. Date	RBW No.
W-8	10-06-19	1
W-20	02-09-19	2
W-25	07-10-19	3
TOTAL RBWs		**3**

Discussion Schedule of Daily Practice Problems (DPPs):

S. No.	Week No.	DPP No.				No. of DPPs
		P	C		M	
			P	I/O		
1	W1	A1, 2	A1	A1	A1, 2	6
2	W2	3, 4	2	2	3, 4	6
3	W3	5, 6	3	3	5, 6	6
4	W4	7, 8	4	4	7, 8	6
5	W5	9, 10	5	5	9, 10	6
6	W6	11, 12	6	6	11, 12	6
7	W7	13, 14	7	7	13, 14	6
8	W8	15, 16	8	8	15, 16	6
9	W9	17, 18	9	9	17, 18	6
10	W10	19, 20	10	10	19, 20	6
11	W11	B1, 2, 3	B1	B1	B1, 2, 3	8
12	W12	4, 5	2	2	4, 5	6
13	W13	6, 7, 8	3	3	6, 7, 8	8
14	W14	9, 10, 11	4	4	9, 10, 11	8
15	W15	12, 13	5, 6	5, 6	12, 13	8
16	W16	14, 15, 16	7	7	14, 15, 16	8
17	W17	17, 18	8	8	17, 18	6
18	W18	19, 20	9	9	19, 20	6
19	W19	21, 22	10	10	21, 22	6
20	W20	23, 24, 25	11	11	23, 24, 25	8
21	W21	26, 27, 28	12	12	26, 27, 28	8
22	W22	29, 30, 31	13	13	29, 30, 31	8
23	W23	32, 33	14, 15	14	32, 33	7
24	W24	34, 35	16, 17	15	34, 35	7
25	W25	C1, 2, 3	C1	C1	C1, 2, 3	8
26	W26	4, 5	2, 3	2, 3	4, 5	8
27	W27	6	4	4	6	4
28	W28	0	0	0	0	0
29	W29	7, 8	5	5	7, 8, 9	Ø
30	W30	9, 10, 11	6, 7	6	10, 11, 12	9
31	W31	12, 13, 14	8, 9	7	13, 14, 15	9
32	W32	15, 16, 17	10, 11	8	16, 17, 18	9
33	W33	18, 19	12	9	19, 20	6
34	W34	20, 21, 22	13	10	21, 22, 23	8
35	W35	23, 24, 25	14	11	24, 25, 26	8
36	W36	26, 27	15	12	27, 28	6
37	W37	28, 29, 30	16	13	29, 30	7
38	W38	31, 32	17	14	31, 32	6
39	W39	33	0	0	33	2
Total Number of DPPs						**269**

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