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COURSE PLANNER FOR STUDENTS CLASS-XI | ABHINAV (EA01)

Target: JEE (Main) 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). 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: 09.04.2018 | Course Ends: 16.02.2019

RESONANCE TEACHING METHODOLOGY

Preparation for JEE (Main)

Classroom Teaching

Daily Practice Problems (DPPs)

Study Material (Sheets/Modules)

MPT - Main Pattern Part 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:** 45 Weeks

◆ **Total Number of Lectures: 484** (P: 148 | C: 188 | M: 148)

◆ **Duration of one lecture:** 1.5 hrs = 90 minutes

◆ **Total Duration of Classroom Teaching:** 726 hrs

◆ **Total Duration of Testing Hours (MCTs/MPTs/BPTs/MT/AIOT):** 48 hrs

◆ **Total Academic Hours in ABHINAV Course: 774 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.

Holidays/ Vacations (Total: 12-Days): 1. Independence Day: 15th August, 2018 : One Day 2. Deepawali Holidays: From 5th November, 2018 (Monday) to 14th November, 2018 (Wednesday): 10 Days 3. Republic Day: 26th January, 2019: One Day (Applicable only at Kota SC and at other SCs 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.

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	Mathematical Tools	12	09.04.18	1	Introduction to Chemistry	6	09.04.18	1	Fundamentals of Mathematics -I	16	09.04.18
2	Rectilinear Motion	5	07.05.18	2	Atomic Structure	18	30.04.18	2	Quadratic Equation	12	15.05.18
3	Buffer	11	16.05.18	3	Mole Concept	16	02.07.18	3	Trigonometry	14	12.06.18
4	Projectile Motion	6	21.05.18	4	Gaseous State	14	20.08.18	4	Sequence & Series	11	16.07.18
5	Relative Motion	6	04.06.18	5	Chemical Equilibrium	12	01.10.18	5	Fundamentals of Mathematics -II	11	06.08.18
6	Newtons Laws of Motion	10	19.06.18	6	Ionic Equilibrium	14	19.11.18	6	Binomial Theorem	9	27.08.18
7	NCERT Discussion	2	09.07.18	7	Thermodynamics & Thermochemistry	14	01.01.19	7	Permutation & Combination	12	12.09.18
8	Friction	5	18.07.18	8	IUPAC Nomenclature	11	09.04.18	8	Straight Lines	16	04.10.18
9	Work, Power & Energy	10	30.07.18	9	Structural Isomerism	5	15.05.18	9	Principal of Mathematical Induction	2	15.11.18
10	Circular Motion	8	16.08.18	10	Structural identification	3	04.06.18	10	Statistics	4	19.11.18
11	Centre of Mass	11	27.08.18	11	Periodic Table	7	12.06.18	11	Solution of Triangle	5	26.11.18
12	Rigid Body Dynamics	15	24.09.18	12	BIN	4	09.07.18	12	Mathematical Reasoning	4	04.12.18
13	Simple Harmonic Motion	7	23.10.18	13	ABC-1	6	18.07.18	13	Circle	11	12.12.18
14	Fluid Mechanics	4	19.11.18	14	ABC-2	3	06.08.18	14	Conic Section	21	01.01.19
15	Surface Tension	3	27.11.18	15	Chemical Bonding	27	13.08.18				
16	Units & Dimensions	1	03.12.18	16	ABC-3	3	19.11.18				
17	Error & Measurement	1	04.12.18	17	ABC-4	3	27.11.18				
18	Elasticity and viscosity	3	05.12.18	18	GOC-I	10	05.12.18				
19	String Waves	8	17.12.18	19	GOC-II	12	08.01.18				
20	Sound Waves	7	31.12.18								
21	KTG & Thermodynamics	7	15.01.19								
22	Calorimetry & Thermal Expansion	4	29.01.19								
23	Discussion	2	11.02.19								
Total No. of Lectures		148		Total No. of Lectures		188		Total No. of Lectures		148	

WEEKLY LECTURE PLANNER (Per Subject)

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W-1	9/4	14/4	3	2	2	3	10
W-2	16/4	21/4	3	2	2	3	10
W-3	23/4	28/4	3	2	2	3	10
W-4	30/4	5/5	3	2	2	3	10
W-5	7/5	12/5	3	2	2	3	10
W-6	14/5	19/5	3	2	2	3	10
W-7	21/5	26/5	3	2	2	3	10
W-8	28/5	2/6	3	2	2	3	10
W-9	4/6	9/6	3	2	2	3	10
W-10	11/6	16/6	3	2	2	3	10
W-11	18/6	23/6	3	2	2	3	10
W-12	25/6	30/6	3	2	2	3	10
W-13	2/7	7/7	3	2	2	3	10
W-14	9/7	14/7	3	2	2	3	10
W-15	16/7	21/7	3	3	3	3	12
W-16	23/7	28/7	4	2	2	4	12

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W-17	30/7	4/8	4	3	3	4	14
W-18	6/8	11/8	3	3	3	3	12
W-19	13/8	18/8	4	1	1	4	10
W-20	20/8	25/8	4	2	2	4	12
W-21	27/8	1/9	4	2	2	4	12
W-22	3/9	8/9	3	3	3	3	12
W-23	10/9	15/9	4	2	2	4	12
W-24	17/9	22/9	4	2	2	4	12
W-25	24/9	29/9	3	3	3	3	12
W-26	1/10	6/10	4	2	2	4	12
W-27	8/10	13/10	4	2	2	4	12
W-28	15/10	20/10	3	3	3	3	12
W-29	22/10	27/10	4	2	2	4	12
W-30	29/10	3/11	4	2	2	4	12
W-31	5/11	10/11	Diwali Vacations				
W-32	12/11	17/11	2	1	1	2	6

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W-33	19/11	24/11	4	2	2	4	12
W-34	26/11	1/12	4	2	2	4	12
W-35	3/12	8/12	3	3	3	3	12
W-36	10/12	15/12	4	2	2	4	12
W-37	17/12	22/12	4	2	2	4	12
W-38	24/12	29/12	4	2	2	4	12
W-39	31/12	5/1	3	3	3	3	12
W-40	7/1	12/1	4	2	2	4	12
W-41	14/1	19/1	4	2	2	4	12
W-42	21/1	26/1	3	2	2	3	10
W-43	28/1	2/2	4	2	2	4	12
W-44	4/2	9/2	2	3	3	2	10
W-45	11/2	16/2	2	1	1	2	6

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		Chemistry		Mathematics	Testing Hours
							Mathematical Tools	Physical/ Inorganic	Organic	Mathematics		
1	MPT1	JEE (Main)	06-05-18 (Sunday)	10-05-18 (Thursday)	15-05-18 (Tuesday)	17-05-18 (Thursday)	Mathematical Tools	ITC	IUPAC Nomenclature (upto IUPAC-Nomenclature of Alkane & Cyclo alkane with simple side chain (Alkyl Radical))	FOM-I (upto Logarithm : Definition Identity, Properties, Graph)	3	
2	MCT1	JEE (Main)	20-05-18 (Sunday)	24-05-18 (Thursday)	29-05-18 (Tuesday)	31-05-18 (Thursday)	Mathematical Tools, Rectilinear Motion	ITC, Atomic Structure (upto Atomic No. / Mass No., Isotopes, Isobars, Isotones, Isoelectronic)	IUPAC Nomenclature (Up to IUPAC-Functional groups (Esters & Anhydride))	FOM-I (upto Logarithmic inequalities)	3	
3	MPT2	JEE (Main)	10-06-18 (Sunday)	14-06-18 (Thursday)	19-06-18 (Tuesday)	21-06-18 (Thursday)	Rectilinear Motion, Projectile Motion, Relative Motion (Wind, rain problem)	Atomic Structure (upto Spectrum)	IUPAC Nomenclature, Structural isomerism	FOM-I (only method of interval and logarithm) Quadratic Equation (upto sign of quadratic expression)	3	
4	MCT2 + BPT1	JEE (Main) + Board	01-07-18 (Sunday)	05-07-18 (Thursday)	10-07-18 (Tuesday)	12-07-18 (Thursday)	MCT-2: All Above + Newtons Laws of Motion (Up to unstrained motion (Spring constrained) Lecture 1) BPT-1	ITC, Atomic Structure	IUPAC Nomenclature, Structural isomerism	MCT2 : FOM-I, Quadratic Equation BPT1 : FOM-I, Quadratic Equation	6	
5	MPT3	JEE (Main)	22-07-18 (Sunday)	26-07-18 (Thursday)	31-07-18 (Tuesday)	02-08-18 (Thursday)	Relative Motion, Newtons Laws of Motion	Atomic Structure, Mole Concept (upto Empirical & Molecular Formula)	Structural Identification, Periodic Table	Quadratic Equation, Trigonometry (upto maximum and minimum of Trigonometric expression)	3	
6	MCT3	JEE (Main)	12-08-18 (Sunday)	16-08-18 (Thursday)	21-08-18 (Tuesday)	23-08-18 (Thursday)	All Above & Friction, Work, Power & Energy (Up to Power)	ITC, Atomic Structure, Mole Concept (Upto Balancing redox reactions)	MPT-2 + Structural identification, Periodic Table, BIN	FOM-I, Quadratic Equation, Trigonometry Sequence and Series (upto a_n , a_n^2 , a_n^n)	3	
7	MPT4	JEE (Main)	09-09-18 (Sunday)	13-09-18 (Thursday)	18-09-18 (Tuesday)	20-09-18 (Thursday)	Friction, Work, Power & Energy, Circular Motion	Mole Concept, Gaseous State (Upto Dalton's law and its applications)	BIN, ABC-1, 2 & Chemical Bonding (Upto Writing Resonating Structures, Finding Average Bond Order)	Trigonometric Equation, Sequence and Series, Form-II, Binomial Theorem (upto problems based on remainder and last digit)	3	
8	MCT4 + BPT2	JEE (Main) + Board	30-09-18 (Sunday)	04-10-18 (Thursday)	09-10-18 (Tuesday)	11-10-18 (Thursday)	MCT-4: All Above & Centre of Mass, Rigid Body Dynamics (Up to Torque Calculations) BPT-2	ITC, Atomic Structure, Mole Concept, Gaseous State (Upto Vanderwaal's Equation & Verification)	IUPAC Nomenclature, Structural isomerism, Structural identification, Periodic Table, BIN, ABC-1, 2 & Chemical Bonding (upto VSEPR)	MCT-4: FOM-I, Quadratic Equation, Trigonometry Sequence and Series, FOM-II, Binomial Theorem, P & C (upto Problems based on geometry) BPT-2 : Trigonometry Sequence and Series, Binomial Theorem	6	
9	MPT5	JEE (Main)	21-10-18 (Sunday)	25-10-18 (Thursday)	30-10-18 (Tuesday)	01-11-18 (Thursday)	Centre of Mass, Rigid Body Dynamics (Up to Instantaneous axis of rotation (IAGR))	Gaseous State, Chemical Equilibrium (Upto Characteristics of equilibrium constant)	Chemical Bonding (upto Hydrogen bonding)	Binomial Theorem, P&C, Straight Line (upto locus)	3	
10	MCT5 + BPT3	JEE (Main) + Board	09-12-18 (Sunday)	13-12-18 (Thursday)	18-12-18 (Tuesday)	20-12-18 (Thursday)	MCT-5: All Above & Simple Harmonic Motion, Fluid Mechanics, Surface Tension, Units & Dimensions, Error & Measurement, Elasticity & Viscosity, String Waves, Sound Dimensions, Error & Measurement BPT-3	All Above & Ionic Equilibrium (upto pH calculation (WA, WB, mixture of WA & SA, Polyprotic WA & SA))	IUPAC Nomenclature, Structural isomerism, Structural identification, Periodic Table, BIN, ABC-1, 2 & Chemical Bonding	MCT-5 FOM-I, Quadratic Equation, Trigonometry Sequence and Series, FOM-II, Binomial Theorem, P & C, Straight Line, Statistics BPT-3 : P&C, Straight Line, Statistics.	6	
11	MPT6	JEE (Main)	06-01-19 (Sunday)	10-01-19 (Thursday)	15-01-19 (Tuesday)	17-01-19 (Thursday)	Rigid Body Dynamics, Simple Harmonic Motion, Fluid Mechanics, Surface Tension, Units & Dimensions, Error & Measurement, Elasticity & Viscosity, String Waves, Sound Waves (Up to Speed of sound, Intensity)	Chemical Equilibrium, Ionic Equilibrium	Chemical Bonding, ABC-3, 4 & GOC-1 (Upto Hyperconjugation)	Straight Line, Statistics, SDT, Mathematical Reasoning, Circle (upto orthogonality of circles)	3	
12	MCT6	JEE (Main)	27-01-19 (Sunday)	31-01-19 (Thursday)	05-02-19 (Tuesday)	07-02-19 (Thursday)	MCT-6: MCT-5 + Elasticity & Viscosity, String Waves, Sound Waves, KTG & Thermodynamics (Up to Free expansion, specific heats)	MCT-5 + Thermodynamics & Thermochemistry (upto CP & CV, g (gamma), enthalpy, Reversible Adiabatic)	MCT-5 + ABC-3, GOC-1, GOC-II (upto Carbocation and its stability)	FOM-I, Quadratic Equation, Trigonometry Sequence and Series, FOM-II, Binomial Theorem, P & C, Straight Line, Statistics, SDT, Mathematical Reasoning, Circle, Conic Section (parabola up to important properties of parabola)	3	
13	A10T	JEE (Main)	10-02-19 (Sunday)	14-02-19 (Thursday)	19-02-19 (Tuesday)	21-02-19 (Thursday)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3	
Total Testing Hours											48	

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-01	16-04-2018	1
W-06	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
TOTAL RBWs		8

CHEMISTRY		
Week No.	RBW Dist. Date	RBW No.
W-10	11-06-018	1 (P)
W-10	11-06-018	1 (I/O)
W-26	01-10-2018	2 (P)
W-26	01-10-2018	2 (I/O)
W-36	10-12-2018	3 (P)
W-36	10-12-2018	3 (I/O)
W-43	28-01-2019	4 (P)
W-43	28-01-2019	4 (I/O)
TOTAL RBWs		8

MATHEMATICS		
Week No.	RBW Dist. Date	RBW No.
W-10	11-06--2018	1
W-17	03-07-2018	2
W-23	10-09-2018	3
W-33	19-11-2018	4
W-38	24-12-2018	5
TOTAL RBWs		5

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	W-1	A1, 2	0	A1	A1, 2	5	17	W-17	6, 7, 8	2	3	6, 7, 8	8	33	W-33	44,45,46	15	21	44,45,46	8
2	W-2	3, 4	1	2	3, 4	6	18	W-18	9, 10	3	4, 5	9, 10	7	34	W-34	47,48,49	16	22, 23	47,48,49	9
3	W-3	5, 6	2	3	5, 6	6	19	W-19	11, 12	4	6	11, 12	6	35	W-35	50, 51	17	24, 25	50, 51	7
4	W-4	7, 8	3	4	7, 8	6	20	W-20	13,14,15	5	7	13,14,15	8	36	W-36	52,53,54	0	26	52,53,54	7
5	W-5	9, 10	4	5	9, 10	6	21	W-21	16,17,18	6	8	16,17,18	8	37	W-37	55,56,57	18	27	55,56,57	8
6	W-6	11, 12	5	6	11, 12	6	22	W-22	19, 20	7	9, 10	19, 20	7	38	W-38	58,59,60	19	28, 29	58,59,60	9
7	W-7	13, 14	6	7	13, 14	6	23	W-23	21,22,23	8	11	21,22,23	8	39	W-39	61, 62	20	30	61, 62	6
8	W-8	15, 16	7	8	15, 16	6	24	W-24	24,25,26	9	12	24,25,26	8	40	W-40	63,64,65	21	31, 32	63,64,65	9
9	W-9	17, 18	8	9	17, 18	6	25	W-25	27, 28	10	13, 14	27, 28	7	41	W-41	66,67,68	22	33	66,67,68	8
10	W-10	19, 20	0	10	19, 20	5	26	W-26	29,30,31	0	15	29,30,31	7	42	W-42	69, 70	23	34	69, 70	6
11	W-11	21, 22	9	11	21, 22	6	27	W-27	32,33,34	11	16	32,33,34	8	43	W-43	71,72,73	24	35	71,72,73	8
12	W-12	23, 24	10	12	23, 24	6	28	W-28	35, 36	12	17, 18	35, 36	7	44	W-44	74, 75	25	36, 37	74, 75	7
13	W-13	25,26,27	11	13, 14	25,26,27	9	29	W-29	37,38,39	13	19	37,38,39	8	45	W-45	76	0	38	76	3
14	W-14	28,29,30	12	15	28,29,30	8	30	W-30	40,41,42	14	20	40,41,42	8	46	W-46	0	0	0	0	0
15	W-15	B1, 2	0	B1	B1, 2	5	31	W-31	0	0	0	0	0	Total Number of DPPs						302
16	W-16	3, 4, 5	1	2	3, 4, 5	8	32	W-32	43	0	0	43	2							

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

Resonance Eduventures Ltd.

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