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COURSE PLANNER FOR STUDENTS

CLASS-XI | AADHAAR (EB05)

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: 10.06.2019 | Course Ends: 25.01.2020

Merge in O4EB Date: 25 August, 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:** 32 Weeks

◆ **Total Number of Lectures: 420** (P: 128 | C: 164 | M: 128)

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

◆ **Total Duration of Classroom Teaching: 630 hrs**

◆ **Total Duration of Testing Hours (MCTs/MPTs/BPTs/MT/AIOT): 27 hrs**

◆ **Total Academic Hours in AADHAAR Course: 657 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: 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 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	10-06-19	PHYSICAL				1	FUNDAMENTALS OF MATHEMATICS-I	16	03-06-19
2	RECTILINEAR MOTION	5	01-07-19	1	INTRODUCTION TO CHEMISTRY	4	10-06-19	2	QUADRATIC EQUATION	9	28-06-19
3	PROJECTILE MOTION	5	09-07-19	2	ATOMIC STRUCTURE	18	24-06-19	3	TRIGONOMETRY	14	11-07-19
4	RELATIVE MOTION	5	17-07-19	3	MOLE CONCEPT	11	20-08-19	4	SEQUENCE & SERIES	8	06-08-19
5	NLM	12	25-07-19	4	GASEOUS STATE-1	9	11-09-19	5	MATHEMATICAL INDUCTION	1	19-08-19
6	UNIT & DIMENSION	1	14-08-19	5	CHEMICAL EQUILIBRIUM	8	01-10-19	6	STATISTICS	3	20-08-19
7	NCERT DISCUSSION (CHAPTER 3, 4 (PARTIAL))	1	16-08-19	6	GASEOUS STATE-2	5	16-10-19	7	FUNDAMENTALS OF MATHEMATICS-II	8	26-08-19
8	NCERT DISCUSSION (CHAPTER 5 (PARTIAL))	1	19-08-19	7	S-BLOCK	4	06-11-19	8	BINOMIAL THEOREM	7	09-09-19
9	FRICTION	5	20-08-19	8	THERMODYNAMICS & THERMOCHEMISTRY	16	13-11-19	9	PERMUTATION & COMBINATION	12	19-09-19
10	WORK, POWER & ENERGY	11	28-08-19	9	P-BLOCK (13-14 GROUPS)	5	17-12-19	10	SOLUTION OF TRIANGLE	6	14-10-19
11	CIRCULAR MOTION	7	17-09-19	10	IONIC EQUILIBRIUM (ELEMENTARY)	11	26-12-19	11	MATHEMATICAL REASONING	4	23-10-19
12	CENTRE OF MASS	10	27-09-19	ORGANIC / INORGANIC				12	STRAIGHT LINE	13	11-11-19
13	NCERT DISCUSSION (NLM, FRICTION, WPE, CIRCULAR MOTION) (CHAPTER 5 (PARTIAL), CHAPTER 6)	1	14-10-19	1	IUPAC NOMENCLATURE	10	10-06-19	13	CIRCLE	9	03-12-19
14	RIGID BODY DYNAMICS	13	15-10-19	2	STRUCTURAL ISOMERISM	5	15-07-19	14	CONIC SECTION	18	18-12-19
15	SIMPLE HARMONIC MOTION	7	14-11-19	3	ABC-1	4	29-07-19	Total No. of Lectures			
16	FLUIDS	4	27-11-19	4	ABC-2	2	12-08-19	128			
17	NCERT DISCUSSION (COM, RBD, SHM PROPERTIES OF MATTER) (CHAPTER 7, CHAPTER 10 (PARTIAL))	1	04-12-19	5	ABC-3	2	19-08-19	Total No. of Lectures			
18	SURFACE TENSION	2	05-12-19	6	PERIODIC TABLE	6	26-08-19	164			
19	ERROR	1	10-12-19	7	BIN	3	10-09-19	Total No. of Lectures			
20	ELASTISITY AND VISCOSITY	2	11-12-19	8	CHEMICAL BONDING	22	17-09-19	128			
21	STRING WAVES	6	16-12-19	9	ABC-4	2	27-11-19	Total No. of Lectures			
22	SOUND WAVES	7	25-12-20	10	GOC-I	8	02-12-19	128			
23	KTG & THERMODYNAMICS	5	07-01-20	11	GOC-II	9	24-12-19	Total No. of Lectures			
24	CALORIMETRY & THERMAL EXPANSION	3	15-01-20	Total No. of Lectures				164			
25	NCERT	1	25-01-20	Total No. of Lectures				128			

WEEKLY LECTURE PLANNER (Per Subject)

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W1	10/06	15/06	4	2	2	4	12
W2	17/06	22/06	4	2	2	4	12
W3	24/06	29/06	4	2	2	5	13
W4	01/07	06/07	4	2	2	4	12
W5	08/07	13/07	4	2	2	5	13
W6	15/07	20/07	4	2	3	5	14
W7	22/07	27/07	4	2	2	4	12
W8	29/07	03/08	4	2	2	5	13
W9	05/08	10/08	4	2	2	5	13
W10	12/08	17/08	4	3	2	5	14
W11	19/08	24/08	5	3	2	5	15
W12	26/08	31/08	4	2	2	4	12

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W13	02/09	07/09	4	3	3	4	14
W14	09/09	14/09	4	4	2	4	14
W15	16/09	21/09	4	3	3	4	14
W16	23/09	28/09	5	4	2	4	15
W17	30/09	05/10	5	3	3	3	14
W18	07/10	12/10	4	4	2	4	14
W19	14/10	19/10	4	3	3	4	14
W20	21/10	26/10	3	3	3	4	13
W21	28/10	02/11	0	2	1	3	6
W22	04/11	09/11	4	0	0	0	4
W23	11/11	16/11	4	4	2	3	13
W24	18/11	23/11	4	3	3	4	14

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W25	25/11	30/11	4	3	3	4	14
W26	02/12	07/12	4	3	3	4	14
W27	09/12	14/12	4	4	2	4	14
W28	16/12	21/12	4	4	2	4	14
W29	23/12	28/12	4	3	3	3	13
W30	30/12	04/01	4	4	2	4	14
W31	06/01	11/01	4	3	3	4	14
W32	13/01	18/01	4	3	3	4	14
W33	20/01	25/01	2	3	2	4	11

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			Mathematics	Testing Hours
								Chemistry		Organic		
								Physical/ Inorganic				
1	MPT-1	JEE (Main)	07-07-19 (SUNDAY)	Within 4 (Four) Days of Test Conduction	Within 1 Week of Test Conduction	Within 2 Weeks of Test Conduction	Mathematical Tools (Up to Multiplication of vector (Dot product))	Introduction to Chemistry	IUPAC-Nomenclature upto (IUPAC-Nomenclature of non-chain terminating Functional groups –OH, –SO ₃ H, Ketone, thiols and amines)	FOM-I (upto Logarithmic Equation)	3	
2	MCT-1	JEE (Main)	28-07-19 (SUNDAY)				Mathematical Tools, Rectilinear Motion, Projectile Motion	Introduction to Chemistry & Atomic Structure (upto Bohr's Atomic Model)	IUPAC Nomenclature, Structural Isomerism	Fom-I, Quadratic Equation.	3	
3	MPT-2	JEE (Main)	11-08-19 (SUNDAY)				Mathematical Tools, Rectilinear Motion, Projectile Motion, Relative Motion, NLM (Up to Constrained motion (string))	Introduction to Chemistry, Atomic Structure (upto De Broglie's + Heisenberg)	Structural isomerism, structural identification & ABC-1	Quadratic Equation, Trigonometry, (Upto sum of sine and cosine series)	3	
4	MCT-2	JEE (Main)	22-08-19 (SUNDAY)				Mathematical Tools, Rectilinear Motion, Projectile Motion, Relative Motion, NLM, Unit & Dimension, Friction, Work Power & Energy (Up to Spring force, Kinetic energy)	Introduction to Chemistry, Atomic Structure, Mole Concept (upto Sequence & Parallel Reactions, Mixture analysis & % Purity)	IUPAC Nomenclature, Structural Isomerism, structural identification, ABC-1, 2, 3 & Periodic table (upto Z effective)	FOM-I Quadratic Equation, Trigonometry, sequence and series, Metheoretical Incution, statistics, FOM-II, (Modulus function: Definition, Equations)	3	
5	MPT-3	JEE (Main)	10-11-19 (SUNDAY)				NLM, Unit & Dimension, Friction, Work Power & Energy, Circular Motion, Center of Mass, RBD (Up to Angular momentum)	Mole Concept, Gaseous State-1, Chemical Equilibrium (upto Thermodynamics of Equilibrium)	BIN & Chemical bonding (upto VSEPR)	Sequence and series, Metheoretical Incution, statistics, FOM-II, Binomial Theorem, Permutatio & Combination (upto Formation of group and distribution of objects)	3	
6	MCT-3	JEE (Main)	01-12-19 (SUNDAY)				Mathematical tools, Rectilinear motion, Projectile motion, Relative motion, NLM, Friction, Work, Power, energy, Circular motion, Centre of mass, RBD, SHM (Up to Spring mass system)	Introduction to Chemistry, Atomic Structure, Mole Concept, Gaseous state-1, Chemical Equilibrium, Gaseous state-2, s-block elements & Thermodynamics (upto Heat & work calculations)	Periodic Table, BIN & Chemical Bonding, ABC-4	Fundamentals of Mathematics-I, Quadratic Equation, Trigonometry, Sequence & Series, Mathematical Induction, Statistics, Fundamentals of Mathematics-II, Binomial Theorem, P & C, Mathematical Reasoning, Solution of Triangle, Straight Line (Upto Special points of D, locus)	3	
7	MPT-4	JEE (Main)	22-12-19 (SUNDAY)				RBD, SHM, Fluid mechanics	Gaseous State-2, s-Block, Thermodynamics & Thermochemistry (upto Phase Transformation, Polytropic Process, Free Expansion, For solids & Liquids)	Chemical Bonding, ABC-4 & GOC-1 upto Resonance effect (Drawing Structure)	Permutation & Combination, Statistics, Solution of Triangle, mathematical Reasoning, Straight line	3	
8	MCT-1	JEE (Main)	05-01-20 (SUNDAY)				Mathematical tools, Rectilinear Motion, Projectile Motion, Relative Motion, NLM, Friction, WPE, Circular Motion, Centre of mass, RBD, SHM, Fluid Mechanics, Surface Tension, Elasticity & Viscosity	Introduction to Chemistry, Atomic Structure, Mole Concept, Gaseous state-1, Chemical Equilibrium, Gaseous state-2, s-block elements & Thermodynamics	GOC-I & GOC-II (upto Carbanion and its stability)	FOM-I, Quadratic Equation, Trigonometry, Sequence and series, Mathematical Induction, Permutation & Combination, Statistics mathematical Reasoning, Solution of Triangle, Straight line, circle, (upto Director circle)	3	
9	MT (Mains)	JEE (Main)	23-01-20 (SUNDAY)				Full syllabus	Full syllabus	Full syllabus	Full syllabus	3	
										Total Testing Hours	27	

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-06	15-07-2019	1
W-11	19-08-2019	2
W-19	14-10-2019	3
W-23	11-11-2019	4
W-27	09-12-2019	5
W-31	06-01-2020	6
TOTAL RBWs		6

CHEMISTRY		
Week No.	RBW Dist. Date	RBW No.
W-6	15-07-2019	1 (I/O)
W-16	09-09-2019	2 (I/O)
W-27	14-10-2019	3 (I/O)
W-13	26-08-2019	1 (P)
W-18	30-09-2019	2 (P)
W-25	18-11-2019	3 (P)
W-29	16-12-2019	4 (P)
W-32	06-01-2020	5 (P)
TOTAL RBWs		8

MATHEMATICS		
Week No.	RBW Dist. Date	RBW No.
W-4	01-07-2019	1
W-9	05-08-2019	2
W-14	02-09-2019	3
W-18	30-09-2019	4
W-23	04-11-2019	5
W-27	02-12-2019	6
W-30	23-12-2019	7
TOTAL RBWs		7

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	A1	0	A1	5	13	W13	3,4	2	2	3,4	6	25	W25	21,22	17	12	21,22	6
2	W2	2,3	2	A1	2,3	6	14	W14	5,6	3	3	5,6	6	26	W26	23	18,19	13	23	5
3	W3	4,5	3	2	4,5	6	15	W15	7,8	4	4	7,8	6	27	W27	24,25	20	14	24,25	6
4	W4	6,7	4	3	6,7	4	16	W16	9	5	5	9	4	28	W28	26,27	21,22	15	26,27	7
5	W5	8,9	5	4	8,9	6	17	W17	10,11	6,7	6	10,11	7	29	W29	28	23,24	16	28	5
6	W6	10,11	6	5	10,11	4	18	W18	12,13	8,9	7	12,13	7	30	W30	29,30	25	17	29,30	6
7	W7	12,13	7	6	12,13	6	19	W19	14,15	10	8	14,15	6	31	W31	31,32	26	0	31,32	5
8	W8	14,15	8	7	14,15	6	20	W20	0	11	0	0	1	32	W32	33,34	27	0	33,34	5
9	W9	16,17	9	8	16,17	4	21	W21	0	12,13	0	0	2	33	W33	0	28	0	0	1
10	W10	18	10	9	18	6	22	W22	16,17	14,15	9	16,17	7	Total Number of DPPs						170
11	W11	19,20	0	10	19,20	3	23	W23	18	16	10	18,19	5							
12	W12	B1,2	B1	B1	B1,2	6	24	W24	19,20	0	11	19,20	5							

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

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