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COURSE PLANNER FOR STUDENTS

CLASS-XIII | AJAY (07ER)

Target: JEE (Main) 2020

Medium: English | Hindi

COURSE CONCEPT

A Course which offers ample time of 1 year to become an expert in the curriculum of JEE (Main). Student would be fully equipped for JEE (Main) January Attempt through entire coverage of syllabus till December. January & February shall be utilized for detailed study of few chapters & revision of entire syllabus through extra study material.

Course Commencement: 22.07.2019 | JEE (Main) Syllabus coverage 28 December, 2019 | Classroom Contact Program conclusion 6 March, 2020

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/ACP)

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. 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)

TOTAL ACADEMIC HOURS

- ♦ **Course Duration: 33 Weeks**
- ♦ **Total Number of Lectures: 495** (P: 161 | C: 173 | M: 161)
- ♦ **Duration of one lecture: 1.75 hrs = 105 minutes**
- ♦ **Total Duration of Classroom Teaching: 866.25 hrs**
- ♦ **Total Duration of Testing Hours (MCTs/MPTs/MT/AIOT): 45 hrs**
- ♦ **Total Academic Hours in AJAY Course: 911.25 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 2019-20. 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	Lectures	Starting Date				
1	RECTILINEAR MOTION	4	22-07-19	PHYSICAL/INORGANIC			1	FUNDAMENTALS OF MATHEMATICS	11	22-07-19					
2	PROJECTILE MOTION	3	26-07-19	1	MOLE CONCEPT	6	22-07-19	2	QUADRATIC EQUATION	5	06-08-19				
3	RELATIVE MOTION	3	31-07-19	2	QUANTUM MECHANICAL MODEL OF ATOM (QMM)	2	05-08-19	3	RELATION, FUNCTION & ITF	12	13-08-19				
4	GEOMETRICAL OPTICS	13	05-08-19	3	PERIODIC TABLE	3	07-08-19	4	MATRICES & DETERMINANT	8	29-08-19				
5	NEWTON'S LAWS OF MOTION	6	22-08-19	4	REAL GASES	4	14-08-19	5	STRAIGHT LINE	9	10-09-19				
6	FRICITION	3	30-08-19	5	CHEMICAL BONDING	12	26-08-19	6	CIRCLE	7	20-09-19				
7	WORK, POWER, ENERGY	4	04-09-19	6	CHEMICAL EQUILIBRIUM	6	23-09-19	7	LIMITS, CONTINUITY & DERIVABILITY	10	30-09-19				
8	ELECTROSTATICS	13	10-09-19	7	IONIC EQUILIBRIUM (ELEMENTARY)	8	07-10-19	8	*APPLICATION OF DERIVATIVES	10	11-10-19				
9	GRAVITATION	3	25-09-19	8	SURFACE CHEMISTRY	3	22-10-19	BINOMIAL THEOREM PERMUTATION & COMBINATION PROBABILITY	1 1 1 Topics will get discussed in first week after Diwali break						
10	CURRENT ELECTRICITY	6	30-09-19	P-BLOCK (N & O)			1			Topics will get discussed in first week after Diwali break					
11	CAPACITANCE	7	07-10-19	P-BLOCK (B & C FAMILY)			1								
12	CIRCULAR MOTION	5	15-10-19	S-BLOCK (ELEMENT)			1	9	MATHEMATICAL REASONING	2	04-11-19				
13	CENTRE OF MASS	6	21-10-19	9	COORDINATION COMPOUNDS	9	04-11-19	10	*CONIC SECTION	11	06-11-19				
MODERN PHYSICS-I				10	ELECTROCHEMISTRY	8	19-11-19	11	INDEFINITE INTEGRATION	5	19-11-19				
NUCLEAR PHYSICS				11	METALLURGY	3	03-12-19	12	*DEFINITE INTEGRATION & ITS APPLICATION	10	25-11-19				
FLUID MECHANICS				12	S-BLOCK (ELEMENT)	1	09-12-19	13	*DIFFERENTIAL EQUATION	4	06-12-19				
SURFACE TENSION				13	P-BLOCK (B & C FAMILY)	2	11-12-19	14	*VECTOR & 3-D	10	11-12-19				
ELASTICITY AND VISCOSITY				14	EQUIVALENT CONCEPT	3	17-12-19	15	SEQUENCE & SERIES	4	23-12-19				
KTG AND THERMODYNAMICS				15	CHEMICAL KINETICS	7	23-12-19	16	STATISTICS	2	27-12-19				
CALORIMETRY & THERMAL EXPANSION				16	P-BLOCK (N & O)	3	17-01-20	17	COMPLEX NUMBER	9	13-01-20				
HEAT TRANSFER				17	SOLUTION & COLLIGATIVE PROPERTIES	7	23-01-20	18	*APPLICATION OF DERIVATIVES	1	25-01-19				
				18	SOLID STATE	6	05-02-20	19	SOLUTION OF TRIANGLE	3	27-01-20				
				19	HALOGEN NOBLE GAS	4	17-02-20	20	BINOMIAL THEOREM	6	30-01-20				
				20	THERMODYNAMICS & THERMOCHEMISTRY	7	24-02-20	21	*CONIC SECTION	2	06-02-20				
				21	D-BLOCK ELEMENT	3	05-03-20	22	PERMUTATION & COMBINATION	10	08-02-20				
				ORGANIC			9	IUPAC NOMENCLATURE	4	22-07-19	23	*DEFINITE INTEGRATION & ITS APPLICATION	2	20-02-20	
14	DIWALI HOME WORK DISCUSSION	1		10	REDUCTION, OXIDATION & HYDROLYSIS	3	02-12-19	24	*DIFFERENTIAL EQUATION	1	24-02-20	25	PROBABILITY	5	25-02-20
15	RIGID BODY DYNAMICS	12	11-11-19	11	ORM-III	4	12-12-19	26	*VECTOR & 3-D	2	02-03-20				
16	SIMPLE HARMONIC MOTION	6	25-11-19	12	ORM-IV	3	23-12-19								
17	STRING WAVE	5	02-12-19	13	AROMATIC COMPOUNDS	3	14-01-20								
18	SOUND WAVE	6	07-12-19	14	CARBONYL COMPOUNDS	3	27-01-20								
19	WAVE OPTICS	3	14-12-19	15	ACID & DERIVATIVES	1	10-02-20								
20	EM WAVE	1	18-12-09	16	BIOMOLECULES	3	11-02-20								
21	SEMICONDUCTOR	3	19-12-19	17	PHYSICAL PROPERTIES & CHEMISTRY IN EVERYDAY LIFE	1	19-02-20								
22	POC	2	24-12-19	18	CHEMISTRY IN EVERYDAY LIFE	1	24-02-20								
23	EMF	6	26-12-19	19	ENVIRONMENTAL CHEMISTRY	1	25-02-20								
24	EMI	5	16-01-20												
25	ALTERNATING CURRENT	2	23-01-20												
26	MODERN PHYSICS-I	4	27-01-20												
27	NUCLEAR PHYSICS	3	01-02-20												
28	FLUID MECHANICS	3	06-02-20												
29	SURFACE TENSION	2	11-02-20												
30	ELASTICITY AND VISCOSITY	2	13-02-20												
31	KTG AND THERMODYNAMICS	5	14-02-20												
32	CALORIMETRY & THERMAL EXPANSION	2	21-02-20												
33	HEAT TRANSFER	5	25-02-20												
Total No. of Lectures				161	Total No. of Lectures			173	Total No. of Lectures			161			

WEEKLY LECTURE PLANNER (Per Subject)

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W1	22/07	27/07	5	3	2	5	15
W2	29/07	03/08	5	3	2	5	15
W3	05/08	10/08	5	3	2	5	15
W4	12/08	17/08	5	3	2	5	15
W5	19/08	24/08	5	3	2	5	15
W6	26/08	31/08	5	3	2	5	15
W7	02/09	07/09	5	3	2	5	15
W8	09/09	14/09	6	3	3	6	18
W9	16/09	21/09	6	3	3	6	18
W10	23/09	28/09	5	3	2	5	15
W11	30/09	05/10	6	3	3	6	18

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W12	07/10	12/10	6	4	2	6	18
W13	14/10	19/10	6	3	3	6	18
W14	21/10	26/10	2	4	1	2	9
W15	28/10	02/11	0	0	0	0	0
W16	04/11	09/11	6	4	2	6	18
W17	11/11	16/11	6	4	2	6	18
W18	18/11	23/11	6	4	2	6	18
W19	25/11	30/11	6	4	2	6	18
W20	02/12	07/12	6	4	2	6	18
W21	09/12	14/12	6	4	2	6	18
W22	16/12	21/12	5	4	3	6	18

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W23	23/12	28/12	6	4	2	6	18
W24	30/12	04/01	0	0	0	0	0
W25	06/01	11/01	0	0	0	0	0
W26	13/01	18/01	5	4	2	4	15
W27	20/01	25/01	6	4	2	6	18
W28	27/01	01/02	6	4	2	6	18
W29	03/02	08/02	6	4	2	6	18
W30	10/02	15/02	6	4	2	6	18
W31	17/02	22/02	6	4	3	5	18
W32	24/02	29/02	5	5	2	6	18
W33	02/03	07/03	2	4	1	2	9

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			
								Physical/ Inorganic	Chemistry					
1	MPT-1	JEE (MAIN)	18-08-19 (SUNDAY)				Rectilinear Motion, Projectile Motion, Relative Motion	Mole Concept	IUPAC Nomenclature, Structural Isomerism	Fundamentals of Mathematics	3			
2	MCT-1	JEE (MAIN)	08-09-19 (SUNDAY)				Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics, NLM upto constrained motion.	Mole concept, GMM, Periodic Table & Real Gas, Chemical Bonding (upto Chemical Bonding-1) (All Cheminfos and Handouts Till date)	IUPAC Nomenclature, Structural isomerism, Structure Identification, POC-I & GOC-I (Up to resonance)	Fundamentals of Mathematics, Quadratic Equation, Relation, Function & IFF	3			
3	MPT-2	JEE (MAIN)	22-09-19 (SUNDAY)				Geometrical Optics, NLM, Friction, Work Power & Energy, Electrostatics (Up to Electric field)	GMM + Periodic table + Real gas & Chemical bonding (upto Hybridisation)	POC, GOC-I & GOC - II (Up to intermediates)	Quadratic Equation, Relations, Function & IFF, Matrices & Determinant, Straight Line (Upto Parametric form)	3			
4	MCT-2	JEE (MAIN)	06-10-19 (SUNDAY)				Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics, NLM Friction, Work Power & Energy, Electrostatics, Gravitation	Mole Concept, GMM, Periodic Table & Real Gas, Chemical Bonding	POC, GOC-I & GOC - II	Fundamental of Mathematics, Quadratic Equation, Relations, Function & IFF, Matrices & Determinant, Straight Line, Circle	3			
5	MCT-3	JEE (MAIN)	24-11-19 (SUNDAY)				Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics, NLM, Friction, WPE, Electrostatics, Gravitation, Current Electricity, Capacitance, Circular Motion, Centre of Mass, RBD upto rotational equilibrium	Mole concept: GMM, Periodic table, Real Gas, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary), Coordination compounds, Electrochemistry, Metallurgy (All Cheminfos and Handouts Till date)	Stereoisomerism (Mains), ORM-I & ORM-II	Fundamentals of Mathematics, Quadratic Equation, Relation, Function & IFF, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability, Application of Derivatives, Mathematical Reasoning, Conic Section	3			
6	MPT-3	JEE (MAIN)	15-12-19 (SUNDAY)				Circular Motion, Centre of Mass, RBD, SHM, Spring Wave, Error & Measurement	Chemical bonding + Chemical equilibrium + ionic eq. + coordination compound	ORM-II, Reduction, oxidation & Hydrolysis	Limits, Continuity & Derivability, Application of Derivatives, Mathematical reasoning, Conic Section, Indefinite Integration, Definite Integration & Its Application.	3			
7	AIDT-1 (MAIN)	JEE (MAIN)	29-12-19	Within 4 (Four) Days of Test Conduction	Within 1 Week of Test Conduction	Within 2 Weeks of Test Conduction	Full syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3		
8	MVT 1	JEE (MAIN)	31-12-19				Full syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
9	MVT 2	JEE (MAIN)	02-01-20				Full syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3
10	MCT-4	JEE (MAIN)	02-02-20 (SUNDAY)				Rectilinear Motion, Projectile Motion, Relative motion, Geometrical Optics, NLM, Friction, WPE, Electrostatics, Gravitation, Current electricity, Capacitance, Circular Motion, Centre of mass, RBD, SHM, String wave, Sound Wave, Wave Optics, EMW, Solid & Semi Conductor, POC, EMF EMI, AC, Error & Measurement	Mole Concept + Quantum Mechanical model of atom (GMM) + Periodic Table + Real Gases + Chemical Bonding + Chemical Equilibrium + Ionic Equilibrium (Elementary) + Coordination compounds + Electrochemistry + Metallurgy + s-Block (Element) + p-Block (B & C family) + Equivalent Concept	ORM-II, III, IV & Aromatic compounds	Fundamentals of Mathematics, Quadratic Equation, Relations, Function & IFF, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability, Application of Derivatives, Mathematical reasoning, Conic Section, Indefinite Integration, Definite Integration & Its Application, Differential Equation, Vector & 3-D, Sequence & Series, Statistics, Complex Number	3			
11	AIDT-2 (MAIN)	JEE (MAIN)	16-02-20				Full syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3		
12	MT (MAIN)	JEE (MAIN)	06-03-20				Full syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3		
13	JPT-1 (MAIN)	SAME AS 01JR	15-03-20				Full syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3		
14	JPT-2 (MAIN)	SAME AS 01JR	22-03-20				Full syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3		
15	JPT-3 (MAIN)	SAME AS 01JR	29-03-20				Full syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	3		
Total Testing Hours											45			

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.

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	1	1	1	1	4	12	W12	14	2	2	14	4	23	W23	23	14	14	23	4
2	W2	2,3	2	2	2,3	6	13	W13	15	3	3,4	15	5	24	W24	24	0	0	24	2
3	W3	4,5	3	3,4	4,5	7	14	W14	0	0	5	0	1	25	W25	25	0	0	25	2
4	W4	6	4	5	6,	4	15	W15	0	0	0	0	0	26	W26	26	15	15	26	4
5	W5	7	5	6	7	4	16	W16	16	4	6	16	4	27	W27	27	16,17	16,17	27	6
6	W6	8	6	7	8	4	17	W17	17	5,6	7	17	5	28	W28	28	18	18	28	4
7	W7	9	7	8	9	4	18	W18	18	7,8	8	18	5	29	W29	29	19,20	19	29	5
8	W8	10	8,9	9	10	5	19	W19	19	9	9	19	4	30	W30	30	21	20	30	4
9	W9	11	10,11	10	11	5	20	W20	20	10	10	20	4	31	W31	31	22,23	21	31	5
10	W10	12	12	11	12	4	21	W21	21	11,12	11	21	5	32	W32	32	24	22	32	4
11	W11	13	1	1	13	4	22	W22	22	13	12,13	22	5	33	W33	0	25	0	0	1
Total Number of DPPs																			134	

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

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