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COURSE PLANNER FOR STUDENTS

CLASS-XIII | ABHYAAS (ED05)

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.

[#]Take Shared Later

Course Commencement: 13.05.2019 | Course Ends: 29.12.2019

Reshuffling Date: 23 June, 2019 & 01 September; Merging Date: 23 June (ED04), 1 September (ED01)

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.

TOTAL ACADEMIC HOURS

- ◆ **Course Duration: 33 Weeks**
- ◆ **Total Number of Lectures: 545** (P: 177 | C: 190 | M: 178)
- ◆ **Duration of one lecture: 1 hr 45 Min. = 105 minutes**
- ◆ **Total Duration of Classroom Teaching: 954 hrs**
- ◆ **Total Duration of Testing Hours (MCTs/MPTs/MT/AIOT): 48 hrs**
- ◆ **Total Academic Hours in ABHYAAS Course: 1002 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.

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 calendar)

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	13-05-19	PHYSICAL/INORGANIC				1	FUNDAMENTALS OF MATHEMATICS	12	13-05-19
2	PROJECTILE MOTION	3	17-05-19	1	MOLE CONCEPT	6	13-05-19	2	QUADRATIC EQUATION	7	27-05-19
3	RELATIVE MOTION	5	22-05-19	2	QUANTUM MECHANICAL MODEL OF ATOM (GMVM)	2	22-05-19	3	RELATION, FUNCTION & ITF	13	04-06-19
4	GEOMETRICAL OPTICS	15	29-05-19	3	PERIODIC TABLE	3	27-05-19	4	STATISTICS	2	20-06-19
5	NEWTON'S LAWS OF MOTION	6	15-06-19	4	REAL GASES	4	30-05-19	5	SEQUENCE & SERIES	5	24-06-19
6	FRICTION	3	24-06-19	5	CHEMICAL BONDING	13	05-06-19	6	MATRICES & DETERMINANT	9	29-06-19
7	WORK, POWER, ENERGY	5	27-06-19	6	CHEMICAL EQUILIBRIUM	6	01-07-19	7	STRAIGHT LINE	10	10-07-19
8	ELECTROSTATICS	14	03-07-19	7	IONIC EQUILIBRIUM (ELEMENTARY)	8	15-07-19	8	CIRCLE	7	22-07-19
9	GRAVITATION	3	19-07-19	8	COORDINATION COMPOUNDS	9	29-07-19	9	LIMITS, CONTINUITY & DERIVABILITY	11	30-07-19
10	CURRENT ELECTRICITY	6	23-07-19	9	ELECTROCHEMISTRY	10	16-08-19	10	APPLICATION OF DERIVATIVES	13	12-08-19
11	CAPACITANCE	6	30-07-19	10	METALLURGY	3	27-08-19	11	SOLUTION OF TRIANGLE	3	29-08-19
12	CIRCULAR MOTION	4	06-08-19	11	S-BLOCK (ELEMENT)	3	03-09-19	12	CONIC SECTION	15	02-09-19
13	CENTRE OF MASS	6	10-08-19	12	P-BLOCK (B & C FAMILY)	4	09-09-19	13	INDEFINITE INTEGRATION	6	20-09-19
14	RIGID BODY DYNAMICS	11	20-08-19	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	ORGANIC							
24	ALTERNATING CURRENT	4	04-11-19	1	IUPAC NOMENCLATURE	4	13-05-19				
25	MODERN PHYSICS-I	12	06-11-19	2	STRUCTURAL ISOMERISM	1	21-05-19				
26	NUCLEAR PHYSICS	4	25-11-19	3	STRUCTURE IDENTIFICATION AND POC-I	4	22-05-19				
27	FLUID MECHANICS	4	29-11-19	4	GOC-I	7	04-06-19				
28	SURFACE TENSION	3	04-12-19	5	GOC-II	6	24-06-19				
29	ELASTICITY AND VISCOSITY	1	07-12-19	6	STEREIOISOMERISM	6	08-07-19				
30	KTG AND THERMODYNAMICS	8	09-12-19	7	ORM-I	5	23-07-19				
31	CALORIMETRY & THERMAL EXPANSION	3	19-12-19	8	ORM-II	6	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				
	Total No. of Lectures	177			Total No. of Lectures	190			Total No. of Lectures	178	

WEEKLY LECTURE PLANNER (Per Subject)

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

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
			P	P/I	O	M	
W12	29/07	03/08	6	3	3	6	18
W13	05/08	10/08	6	4	2	6	18
W14	12/08	17/08	4	4	1	4	13
W15	19/08	24/08	6	4	2	6	18
W16	26/08	31/08	6	4	2	6	18
W17	02/09	07/09	4	4	2	5	15
W18	09/09	14/09	6	4	2	6	18
W19	16/09	21/09	6	4	2	6	18
W20	23/09	28/09	6	4	2	6	18
W21	30/09	05/10	5	4	2	4	15
W22	07/10	12/10	6	4	2	6	18

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
			P	P/I	O	M	
W23	14/10	19/10	6	4	2	6	18
W24	21/10	26/10	3	3	0	3	9
W25	28/10	02/11	0	0	0	0	0
W26	04/11	09/11	6	4	2	6	18
W27	11/11	16/11	6	4	2	6	18
W28	18/11	23/11	4	4	2	5	15
W29	25/11	30/11	6	4	2	6	18
W30	02/12	07/12	6	4	2	6	18
W31	09/12	14/12	5	4	2	4	15
W32	16/12	21/12	6	4	2	6	18
W33	23/12	28/12	5	4	1	5	15

PERIODIC TEST SCHEDULE & RESULT COMMUNICATION

S. No.	Periodic Test No. 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			Mathematics
1	MPT-1	MAIN	02-06-19				Rectilinear Motion, Projectile Motion, Relative Motion	Mole Concept	IUPAC naming & Structure isomers	Fundamentals of Mathematics	3	
2	MCT-1	MAIN	16-06-19				Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics (Upto Phs)	Mole Concept, GMM & Periodic Table, Real Gases till date	IUPAC naming, Structure isomers & Structure identification, POC	Fundamentals of Mathematics, Quadratic Equation.	3	
3	MCT-2	MAIN	14-07-19				Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics, NLM, Friction, Work Power & Energy	Mole concept, GMM, Periodic Table & Real Gas, Chemical Bonding, Chemical Equilibrium (upto Homogeneous equilibrium) (All Chemifins & Handouts Till date)	Structure identification, POC, GOC-I, GOC-II (up to Intermediates)	Fundamentals of Mathematics, Quadratic Equation, Relation, Function & IFF, Statistics, Sequence & Series	3	
4	MPT-2	MAIN	04-08-19				Geometrical Optics, NLM, Friction, Work Power & Energy, Electrostatics, Gravitation, Current Electricity (Upto Combination of resistance)	Periodic Table, Real Gases, Chemical Bonding, Chemical Equilibrium	GOC-I, GOC-II & Geometrical isomerism	Quadratic Equation, Relations, Function & IFF, Statistics, Sequence & Series, Matrices & Determinant, Straight Line	3	
5	MCT-3	MAIN	18-08-19				Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics, NLM, Friction, Work Power & Energy, Electrostatics, Gravitation, Current Electricity, Capacitance, Circular Motion, Center of Mass, Rigid Body Dynamics	Mole Concept, GMM, Periodic Table, Real Gas, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium & Coordination compounds	GOC-II, Stereo isomerism & ORM-I	Fundamentals of Mathematics, Quadratic Equation, Relations, Function & IFF, Statistics, Sequence & Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability (Upto Limits only)	3	
6	MCT-4	MAIN	08-09-19				Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics, NLM, Friction, Work Power & Energy, Electrostatics, Gravitation, Current Electricity, Capacitance, Circular Motion, Center of Mass, Rigid Body Dynamics	Mole concept, GMM, Periodic table, Real Gas, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (elementary), Coordination compounds, Electrochemistry, Metallurgy (All Chemifins and Handouts Till date)	Stereoisomerism, ORM-I & ORM-II	Fundamentals of Mathematics, Quadratic Equation, Relation, Function & IFF, Statistics, Sequence & Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability (Upto Limits only)	3	
7	MPT-4	MAIN	29-09-19				Current Electricity, Capacitance, Circular Motion, Center of Mass, Rigid Body Dynamics, Simple Harmonic Motion, String wave, Sound Wave, Wave Optics	Coordination compounds, Electrochemistry, Metallurgy & s-Block (Element), p-Block (B & C family)	ORM-I, ORM-II, Reduction, Oxidation & Hydrolysis	Circle, Limits, Continuity & Derivability, Application of Derivatives, Solution of Triangle, Conic Section	3	
8	MCT-5	MAIN	24-11-19				Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics, NLM, Friction, Work Power & Energy, Electrostatics, Gravitation, Current Electricity, Capacitance, Circular Motion, Center of Mass, Rigid Body Dynamics, Simple Harmonic Motion, String wave, Sound Wave, Wave Optics, Semiconductor, POC, EMM, EMF, EMI, AC	Mole Concept, GMM, Periodic Table, Real Gases & Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium, Coordination compounds, Electrochemistry, Metallurgy & s-Block (Element), p-Block (B & C family), Equivalent Concept, Chemical Kinetics, p-Block(N & O), Solution & Colligative Properties	ORM-I, II, III, IV & Reduction, Oxidation, Hydrolysis	Fundamentals of Mathematics, Quadratic Equation, Relations, Function & IFF, 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	
9	MPT-5	MAIN	15-12-19				Semiconductor, POC, EMM, EMF, EMI, AC, MP-1, Nuclear Physics, Fluid Mechanics, Surface Tension	Solution Colligative, 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	
10	AIOI-1 (MAIN)	MAIN	29-12-19				FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	3
11	MMT-1	MAIN	31-12-19				FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	3
12	MMT-2	MAIN	02-01-20				FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	3
13	AIOI2 (MAIN)	MAIN	16-02-20				FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	3
14	JPT-1 (MAIN)	MAIN	15-03-20				FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	3
15	JPT-2 (MAIN)	MAIN	22-03-20				FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	3
16	JPT-3 (MAIN)	MAIN	29-03-20				FULL SYLLABUS	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/ 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, 2,3	0	A1	A1, 2,3	7	12	W12	34, 35, 36	18	15	34, 35, 36	8	23	W23	15,16,17	7	7	15, 16, 17	8
2	W2	4, 5, 6	A1, A2	2	4, 5, 6	9	13	W13	37, 38, 39	19	16	37, 38, 39	8	24	W24	0	8, 9	0	0	2
3	W3	7, 8, 9	3, 4	3	7, 8, 9	9	14	W14	40, 41, 42	20, 21	17	40, 41, 42	9	25	W25	0	0	0	0	0
4	W4	10, 11, 12	5, 6	4	10, 11, 12	9	15	W15	43, 44, 45	22	18	43, 44, 45	8	26	W26	18,19,20	0	8	18, 19, 20	7
5	W5	13, 14, 15	7, 8	5	13, 14, 15	9	16	W16	46, 47, 48	23	19	46, 47, 48	8	27	W27	21,22	10, 11	9	21, 22	7
6	W6	16, 17, 18	9	6, 7	16, 17, 18	9	17	W17	B1,B2	24, 25	B1	B1, B2	7	28	W28	23,24	12	10	23, 24	6
7	W7	19, 20, 21	10	8, 9	19, 20, 21	9	18	W18	3, 4	B1	2	3, 4	6	29	W29	25,26	13	11	25, 26	6
8	W8	22, 23, 24	11, 12	10	22, 23, 24	9	19	W19	5,6,7	2, 3	3	5, 6, 7	9	30	W30	27,28	14	12	27, 28	6
9	W9	25, 26, 27	13, 14	11, 12	25, 26, 27	10	20	W20	8,9,10	4	4	8, 9, 10	8	31	W31	29,30	15, 16	13	29, 30	7
10	W10	28, 29, 30	15, 16	13	28, 29, 30	9	21	W21	11,12	5	5	11, 12	6	32	W32	31,32	17	14	31, 32	6
11	W11	31, 32, 33	17	14	31, 32, 33	8	22	W22	13,14	6	6	13, 14	6	33	W33	33	18	15	33	4
															Total Number of DPPs				239	

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

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