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COURSE PLANNER FOR STUDENTS CLASS-XII | ANOOP (01EP)

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). The course progresses with basic fundamental study; covering upon the syllabus of boards along with the preparation for JEE (Main).

Course Commencement: 21.01.2019 | Course Ends: 26.11.2019

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:** 40 Weeks

◆ **Total Number of Lectures: 462** (P: 143 | C: 176 | M: 143)

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

◆ **Total Duration of Classroom Teaching:** 693 hrs

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

◆ **Total Academic Hours in ANOOP Course:** 741 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	GEOMETRICAL OPTICS	19	21.01.19	ORGANIC				1	RELATION & FUNCTIONS	19	21.01.19												
2	ELECTROSTATICS	21	01.04.19	1	STEREISOMERISM	14	28.01.19	2	LIMITS, CONTINUITY & DERIVABILITY	15	04.04.19												
3	GRAVITATION	4	13.05.19	2	CHEMICAL KINETICS	1	22.04.19	3	METHOD OF DIFFERENTIATION	4	01.05.19												
4	CURRENT ELECTRICITY	11	21.05.19	3	REACTION REAGENTS	2	23.04.19	4	APPLICATION OF DERIVATIVES	17	08.05.19												
5	MEASUREMENT ERROR & EXPERIMENTS	3	12.06.19	4	GRIGNARD REAGENTS	1	30.04.19	5	LINEAR PROGRAMMING	2	12.06.19												
6	HEAT TRANSFER	4	19.06.19	5	ORM-I	5	06.05.19	6	BINARY OPERATION	2	18.06.19												
7	CAPACITANCE	9	27.06.19	6	ORM-II	9	21.05.19	7	MATRICES & DETERMINANT	11	24.06.19												
8	EMF	13	11.07.19	7	REDUCTION, OXIDATION & HYDROLYSIS	8	26.06.19	8	INDEFINITE INTEGRATION	10	10.07.19												
9	EMI	11	01.08.19	8	ORM-III	6	16.07.19	9	DEFINITE INTEGRATION & ITS APPLICATION	14	25.07.19												
10	ALTERNATING CURRENT	10	19.08.19	9	ORM-IV	5	29.07.19	10	DIFFERENTIAL EQUATION	7	14.08.19												
11	MODERN PHYSICS-I	10	03.09.19	10	AROMATIC COMPOUND	7	07.08.19	11	PROBABILITY	10	28.08.19												
12	NUCLEAR PHYSICS	6	23.09.19	11	CARBONYL COMPOUNDS	4	27.08.19	12	VECTOR & 3-D	17	16.09.19												
13	WAVE OPTICS	7	09.10.19	12	CARBOXYLIC ACID & ACID DERIVATIVES	3	04.09.19	13	COMPLEX NUMBER	12	04.11.19												
14	SEMICONDUCTOR	6	22.10.19	13	BIOMOLECULES	6	16.09.19	14	REVISION	3	25.11.19												
15	POC	2	12.11.19	14	POLYMER	2	14.10.19																
16	EMW	7	14.11.19	15	CHEMISTRY IN EVERYDAY LIFE, PHYSICAL PROPERTIES & POC-II	5	21.10.19																
				PHYSICAL + INORGANIC																			
				16	SOLUTION & COLLIGATIVE PROPERTIES	9	21.01.19																
				17	COORDINATION COMPOUNDS	12	12.02.19																
				18	SOLID STATE	9	22.04.19																
				19	ELECTROCHEMISTRY	14	21.05.19																
				20	METALLURGY	6	26.06.19																
				21	QUALITATIVE ANALYSIS (ONLY ANION)	6	10.07.19																
				22	NITROGEN OXYGEN FAMILY	7	29.07.19																
				23	EQUIVALENT CONCEPT & TITRATIONS	5	13.08.19																
				24	HALOGEN AND NABLE GAS	4	27.08.19																
				25	CHEMICAL KINETICS	9	04.09.19																
				26	SURFACE CHEMISTRY	4	25.09.19																
				27	QUALITATIVE ANALYSIS (ONLY CATION)	9	14.10.19																
				28	d-BLOCK	4	18.11.19																
Total No. of Lectures				143				Total No. of Lectures				176				Total No. of Lectures				143			

WEEKLY LECTURE PLANNER (Per Subject)

Week No.	Week Duration		No. of Lecture					Total No. of Lectures
	From	To	P	C	P/I	M		
W-1	21/1	27/1	3	0	3	3	9	
W-2	28/1	3/2	4	2	3	4	13	
W-3	04/2	10/2	4	2	2	4	12	
W-4	11/2	17/2	4	2	3	4	13	
W-5	18/2	24/2	4	2	2	4	12	
W-6	1/4	7/4	3	2	2	3	10	
W-7	8/4	14/4	3	2	3	3	11	
W-8	15/4	21/4	3	2	3	3	11	
W-9	22/4	28/4	4	2	2	4	12	
W-10	29/4	5/5	4	2	2	4	12	
W-11	6/5	12/5	4	2	2	4	12	
W-12	13/5	19/5	3	2	2	3	10	
W-13	20/5	26/5	4	2	2	4	12	
W-14	27/5	2/6	3	2	3	3	11	

Week No.	Week Duration		No. of Lecture					Total No. of Lectures
	From	To	P	C	P/I	M		
W-15	3/6	9/3	3	2	2	3	10	
W-16	10/6	16/6	3	1	3	3	10	
W-17	17/6	23/6	3	2	3	3	11	
W-18	24/6	30/6	4	3	3	5	15	
W-19	1/7	7/7	5	3	3	4	15	
W-20	8/7	14/7	4	3	3	5	15	
W-21	15/7	21/7	5	3	2	4	14	
W-22	22/7	28/7	4	3	3	5	15	
W-23	29/7	4/8	5	3	3	5	16	
W-24	5/8	11/8	5	3	3	5	16	
W-25	12/8	18/8	4	2	2	4	12	
W-26	19/8	25/8	4	3	3	3	13	
W-27	26/8	1/9	5	3	3	5	16	
W-28	2/9	8/9	4	3	3	4	14	

Week No.	Week Duration		No. of Lecture					Total No. of Lectures
	From	To	P	C	P/I	M		
W-29	9/9	15/9	4	2	3	3	12	
W-30	16/9	22/9	3	2	3	4	12	
W-31	23/9	29/9	4	2	3	4	13	
W-32	30/9	6/10	Board Form Filling Leave					
W-33	7/10	13/10	4	2	3	3	12	
W-34	14/10	20/10	4	2	3	3	12	
W-35	21/10	27/10	3	1	0	3	7	
W-36	28/10	3/11	Diwali Vacations					
W-37	4/11	10/11	3	1	2	4	10	
W-38	11/11	17/11	4	1	2	4	11	
W-39	18/11	24/11	3	1	2	4	10	
W-40	25/11	1/12	3	1	2	3	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		Chemistry		Mathematics	Testing Hours
							Physical/ Inorganic	Organic	Physical/ Inorganic	Organic		
1	A1OT(Main)	JEE (Main)	10-02-19 (Sun)	14-02-19 (Thu)	19-02-19 (Tue)	21-02-19 (Thu)	XI Syllabus	XI Syllabus	XI Syllabus	XI Syllabus	3	
2	MPT1	JEE (Main)	24-02-19 (Sun)	28-02-19 (Thu)	05-03-19 (Tue)	07-03-19 (Thu)	Geometrical Optics	Stereoisomerism (upto Chiral atom, projection formula & conversion)	Solutions & Colligative Properties, Ionic Equilibrium & ChemInfo (till date)	XI : Relation & functions. XI : Straight line, Circle, Conic Section.	3	
3	MCT1	JEE (Main)	28-04-19 (Sun)	02-05-19 (Thu)	07-05-19 (Tue)	09-05-19 (Thu)	Geometrical Optics, Electrostatics (Upto Potential Energy of Point Charge)	Stereoisomerism Upto Introduction of conformational isomer, dihedral angle, strain, Conformational analysis of Ethane, propane	Solution & Colligative Properties, Coordination compound, Thermodynamics, s-Block Element, Ionic Equilibrium & ChemInfo (till date)	XI : Relation & functions, Limits (Except Continuity & Derivable). XI : Straight line, Circle, Conic Section.	3	
4	MPT2	JEE (Main)	19-05-19 (Sun)	23-05-19 (Thu)	28-05-19 (Tue)	30-05-19 (Thu)	Electrostatics Complete	ORM-I upto Nucleophilic addition reaction of carbonyl compounds (DN-, RMGX, LAH4 and NaBH4, H2O, Alcohol, NaHSO3, NH2OH, Beckmann reaction)	Coordination Compound, Solid State, Gaseous state, Chemical Bonding, p-Block (Boron, Carbon Family)	XII: Limits, Continuity & Derivability, Method of Differentiation XI: Fundamentals of Mathematics-I & II, Trigonometry, Statistics, Mathematical Reasoning	3	
5	MCT2 + BPT1	JEE (Main) & Board	16-06-19 (Sun)	20-06-19 (Thu)	25-06-19 (Tue)	27-06-19 (Thu)	Geometrical Optics, Electrostatics, Gravitation, Current Electricity (Up to Symmetrical circuits & Grouping of cells)	Stereoisomerism, ORM-I, ORM-II (only Electrophilic Aromatic substitution reaction), ABC - 3 & 4	Solution & Colligative Properties, Coordination Compound, Solid State, Electrochemistry, Upto Faraday's law of electrolysis, Cell's lead storage batteries & fuel cell, Gaseous state, Chemical Bonding	XII: Relation & Function, Limits, Continuity, Differentiability, Method of Differentiation, Application of Derivatives (Upto Monotonicity) XI : Fundamentals of Mathematics-I & II, Trigonometry, Statistics, Mathematical Reasoning, BPT 1 - Relation & Function, Limits, Continuity, Method of Differentiation, Application of Derivatives	6	
6	MPT3	JEE (Main)	21-07-19 (Sun)	25-07-19 (Thu)	30-07-19 (Tue)	01-08-19 (Thu)	Gravitation, Current Electricity, Measurement Error & Experiments, Heat Transfer, Capacitance Complete	ORM-I and ORM-II and Reduction oxidation hydrolysis (Up to Oxidation reaction of alcohol, aldehyde & ketone)	Electrochemistry, Metallurgy, p-Block (13-15 group), Chemical Bonding, Mole concept.	XII : Application of Derivatives, Matrices & Determinant XI : Sequence & Series, Quadratic Equation, Solution of Triangle	3	
7	MCT3	JEE (Main)	11-08-19 (Sun)	15-08-19 (Thu)	20-08-19 (Tue)	22-08-19 (Thu)	Geometrical Optics, Electrostatics, Gravitation, Current Electricity, Measurement Error & Experiments, Heat Transfer, Capacitance, EMF Complete	Stereoisomerism, ORM-I, ORM-II, ORM-III, ORM-IV (upto Substitution Reaction of Ethers, Epoxides)	Solution & Colligative Properties, Solid State, Coordination Compound, Electrochemistry, Metallurgy, Qualitative Analysis, (Only anion), p-Block (15 group, upto Nitric acid), Chemical Equilibrium	XII : Relation & Function, Limits, Continuity, Differentiability, Method of Differentiation, Application of Derivatives, Matrices & Determinant, Indefinite Integration, Definite Integration & Its Application (Upto Properties of D.I. (P-7)) XI : Sequence & Series, Quadratic Equation, Solution of Triangle.	3	
8	MPT4	JEE (Main)	25-08-19 (Sun)	29-08-19 (Thu)	03-09-19 (Tue)	05-09-19 (Thu)	EMF, EMI, AC (Upto Resonance)	ORM-III, ORM-IV (upto Aromatic Compound Chemical Reaction of Phenol)	Qualitative Analysis (Only anion), p-Block (13-16 group), chemical equilibrium, atomic structure, periodic table, BIN	XI: Indefinite integration, Definite Integration & Its application XI : Fundamentals of Mathematics-I & II, Trigonometry, Straight Line, Circle, Conic Section, Sequence & Series, Quadratic Equation, Solution of Triangle, Statistics, Mathematical Reasoning	3	
9	MCT4 + BPT2	JEE (Main) & Board	15-09-19 (Sun)	19-09-19 (Thu)	24-09-19 (Tue)	26-09-19 (Thu)	Geometrical Optics, Electrostatics, Gravitation, Current Electricity, Measurement Error & Experiments, Heat Transfer, Capacitance, EMF, EMI, AC	Stereoisomerism, ORM-I, ORM-II, Reduction, Oxidation & Hydrolysis, ORM-III, ORM-IV, Aromatic Compound, Carbonyl Compounds, Carboxylic Acid & Acid Derivatives	MCT-4: Solution & Colligative Properties, Coordination Compound, solid state, Electrochemistry, Metallurgy. Qualitative Analysis (Only anion), p-Block (13-18 group), Equivalent concept & titrations, Chemical Kinetics up to Monitoring the progress of reaction BPT-2 : Solution & Colligative Properties, Coordination Compound, solid state, Electrochemistry, Metallurgy, p-Block (15-18 group)	XII : Relation & Function, Limits, Continuity, Differentiability, Method of Differentiation, Application of Derivatives, Matrices & Determinant, Indefinite Integration, Definite Integration & Its Application, Differential Equation, Probability XI : Fundamentals of Mathematics-I & II, Trigonometry, Straight Line, Circle, Conic Section, Sequence & Series, Quadratic Equation, Solution of Triangle, Statistics, Mathematical Reasoning Board Syllabus: Relation & Function, Limits, Continuity, Method of Differentiation, Application of Derivatives, Linear Programming, Matrices & Determinant, Indefinite Integration, Definite Integration & Its Application, Differential Equation, Probability	6	
10	MPT5	JEE (Main)	13-10-19 (Sun)	17-10-19 (Thu)	22-10-19 (Tue)	24-10-19 (Thu)	AC, Modern Physics-I, Nuclear Physics Complete	Aromatic Compound and Biomolecules	Qualitative Analysis (Only anion), p-Block (13-18 group), Equivalent concept & titrations, chemical equilibrium, atomic structure, periodic table, BIN, Chemical Kinetics.	XII : Differential Equation, Probability, Vector & 3D (Upto Dot, cross product) XI : Binomial theorem, Permutation & Combination.	3	
11	MCT5	JEE (Main)	17-11-19 (Sun)	21-11-19 (Thu)	26-11-19 (Tue)	28-11-19 (Thu)	Capacitance, EMF, EMI, AC, Modern Physics-I, Nuclear Physics, Wave Optics, Semiconductor	ORM-I, ORM-III, ORM-IV , Oxidation Reduction Hydrolysis , Aromatic Compound, Carbonyl Compound , Biomolecule, Chemistry in Everyday Life, Physical properties & POC-II	Solution & Colligative Properties, Solid State, Coordination Compound, Electrochemistry, Metallurgy, Qualitative Analysis, p-Block (15-18 group), Equivalent concept & titrations, Chemical kinetics, surface chemistry.	XII : Relation & Function, Limits, Continuity, Differentiability, Method of Differentiation, Application of Derivatives, Matrices & Determinant, Indefinite Integration, Definite Integration & Its Application, Differential Equation, Probability, Vector & 3D, Complex Number (Upto Various forms of complex). XI : Binomial theorem, Permutation & Combination.	3	
12	MMT1	JEE (Main)	26-12-19 (Thu)	30-12-19 (Mon)	04-01-20 (Sat)	06-01-20 (Mon)	Full Syllabus	Full Syllabus	XI + XII Full Syllabus	Full Syllabus	3	
13	A1OT1 (Main)	JEE (Main)	29-12-19 (Sun)	02-01-20 (Thu)	07-01-20 (Tue)	09-01-20 (Thu)	Full Syllabus	Full Syllabus	XI + XII Full Syllabus	Full Syllabus	3	
14	A1OT2 (Main)	JEE (Main)	16-02-20 (Sun)	20-02-20 (Thu)	25-02-20 (Tue)	27-02-20 (Thu)	Full Syllabus	Full Syllabus	XI + XII Full Syllabus	Full Syllabus	3	

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.

Total Testing Hours

48

RESONANCE BOARD WORKSHEET (RBW) SCHEDULE

PHYSICS		
Week No.	RBW Dist. Date	RBW No.
W-06	01-04-2019	1
W-12	13-05-2019	2
W-21	15-06-2019	3
W-26	19-08-2019	4
W-33	07-10-2019	5
W-38	11-11-2019	6
TOTAL RBWs		6

CHEMISTRY		
Week No.	RBW Dist. Date	RBW No.
W-13	20-05-2019 (O)	1
W-14	27-05-2019 (P)	1
W-24	05-08-2019 (O)	2
W-26	19-08-2019 (P)	2
W-28	02-09-2019 (O)	3
W-34	14-10-2019 (I)	3
TOTAL RBWs		6

MATHEMATICS		
Week No.	RBW Dist. Date	RBW No.
W-08	15-04-2019	1
W-18	24-06-2019	2
W-22	22-07-2019	3
W-27	26-08-2019	4
W-37	04-11-2019	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	Week-1	1	-	1	1	3	15	Week-15	28, 29	14	17,18	28, 29	7	29	Week-29	32,33,34	8	8	32,33,34	8
2	Week-2	2, 3	1	2	2, 3	6	16	Week-16	30, 31	15	19,20	30, 31	7	30	Week-30	35, 36	9	9	35, 36	6
3	Week-3	4, 5	2	3	4, 5	6	17	Week-17	32, 33	16	21,22	32, 33	7	31	Week-31	37,38,39	10	10	37,38,39	8
4	Week-4	6, 7	3	4	6, 7	6	18	Week-18	1,2,3	17	23,24	1,2,3	9	32	Week-32	Board Form Filling Leave				
5	Week-5	8, 9	4	5	8, 9	6	19	Week-19	4,5,6	18	25,26	4,5,6	9	33	Week-33	40, 41	11	11	40, 41	6
6	Week-6	10, 11	5	6	10, 11	6	20	Week-20	7,8,9	19	27,28	7,8,9	9	34	Week-34	42, 43	12	12	42, 43	6
7	Week-7	12, 13	6	7	12, 13	6	21	Week-21	10,11,12	1	29	10,11,12	8	35	Week-35	-	-	-	-	-
8	Week-8	14, 15	7	8	14, 15	6	22	Week-22	13, 14	2	1	13, 14	6	36	Week-36	Diwali Vacations				
9	Week-9	16, 17	8	9	16, 17	6	23	Week-23	15,16,17	-	2	15,16,17	7	37	Week-37	44, 45	13	13	44, 45	6
10	Week-10	18, 19	9	10	18, 19	6	24	Week-24	18,19,20	3	3	18,19,20	8	38	Week-38	46,47,48	-	14	46,47,48	7
11	Week-11	20, 21	10	11	20, 21	6	25	Week-25	21, 22	4	4	21, 22	6	39	Week-39	49, 50	-	15	49, 50	5
12	Week-12	22, 23	11	12	22, 23	6	26	Week-26	23,24,25	5	5	23,24,25	8	40	Week-40	51, 52	-	16	51, 52	5
13	Week-13	24, 25	12	13,14	24, 25	7	27	Week-27	26,27,28	6	6	26,27,28	8	Total Number of DPPs					247	
14	Week-14	26, 27	13	15,16	26, 27	7	28	Week-28	29,30,31	7	7	29,30,31	8							

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

Resonance Eduventures Ltd.

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