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JEE (MAIN) DIVISION

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COURSE PLANNER FOR STUDENTS CLASS-XII | ANOOP (O2EP)

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 alongwith the preparation for JEE (Main).

Course Commencement: 01.04.2019 | Course Ends: 27.11.2019

Reshuffling & Merging Date: 23 June, 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:** 35 Weeks

◆ **Total Number of Lectures:** 436 (P: 135 | C: 166 | M: 135)

◆ **Duration of one lecture:** 1.5 / 1.75 Hrs. = 90/105 Minutes

◆ **Total Duration of Classroom Teaching:** 695.25 hrs

◆ **Total Duration of Testing Hours (MCTs/MPTs/BPTs/MT/AIOT):** 39 hrs

◆ **Total Academic Hours in ANOOP Course:** 734.25 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	Lectures	Starting Date	S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	GEOMETRICAL OPTICS	18	01-04-19	ORGANIC			1	RELATION & FUNCTIONS	16	01-04-19	
2	ELECTROSTATICS	20	30-04-19	1	STEREISOIMERISM	12	01-04-19	2	LIMITS, CONTINUITY & DERIVABILITY	13	25-04-19
3	GRAVITATION	4	30-05-19	2	CHEMICAL KINETICS	1	07-05-19	3	METHOD OF DIFFERENTIATION	3	15-05-19
4	CURRENT ELECTRICITY	9	06-06-19	3	REACTION REAGENTS	1	13-05-19	4	APPLICATION OF DERIVATIVES	15	21-05-19
5	HEAT TRANSFER	3	24-06-19	4	GRIGNARD REAGENTS	1	14-05-19	5	LINEAR PROGRAMMING	2	17-06-19
6	CAPACITANCE	9	27-06-19	5	ORM-I	5	20-05-19	6	BINARY OPERATION	2	19-06-19
7	EMF	13	11-07-19	6	ORM-II	9	03-06-19	7	MATRICES & DETERMINANT	11	24-06-19
8	EMI	11	01-08-19	7	REDUCTION, OXIDATION & HYDROLYSIS	8	26-06-19	8	INDEFINITE INTEGRATION	10	10-07-19
9	ALTERNATING CURRENT	10	19-08-19	8	ORM-III	6	16-07-19	9	DEFINITE INTEGRATION & ITS APPLICATION	14	25-07-19
10	MODERN PHYSICS-I	10	03-09-19	9	ORM-IV	5	29-07-19	10	DIFFERENTIAL EQUATION	7	14-08-19
11	NUCLEAR PHYSICS	6	23-09-19	10	AROMATIC COMPOUND	7	07-08-19	11	PROBABILITY	10	28-08-19
12	WAVE OPTICS	7	09-10-19	11	CARBONYL COMPOUNDS	4	27-08-19	12	VECTOR & 3-D	17	16-09-19
13	SEMICONDUCTOR	6	22-10-19	12	CARBOXYLIC ACID & ACID DERIVATIVES	3	04-09-09	13	COMPLEX NUMBER	12	04-11-19
14	POC	2	12-11-19	13	BIOMOLECULES	6	16-09-19	14	REVISION	3	25-11-19
15	EMW	7	14-11-19	14	POLYMER	2	14-10-19				
				15	CHEMISTRY IN EVERYDAY LIFE, PHYSICAL PROPERTIES & POC-II	5	21-10-19				
				PHYSICAL + INORGANIC							
				16	SOLUTION & COLLIGATIVE PROPERTIES	8	01-04-19				
				17	COORDINATION COMPOUNDS	8	17-04-19				
				18	SOLID STATE	8	07-05-19				
				19	ELECTROCHEMISTRY	13	27-05-19				
				20	METALLURGY	6	26-06-19				
				21	QUALITATIVE ANALYSIS (ONLY ANION)	8	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)	7	14-10-19				
				28	d-BLOCK	4	18-11-19				
Total No. of Lectures				Total No. of Lectures			Total No. of Lectures				
135				166			135				

WEEKLY LECTURE PLANNER (Per Subject)

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

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	O	M	
W-13	24/6	29/6	4	3	3	5	15
W-14	1/7	6/7	5	3	3	4	15
W-15	8/7	13/7	4	3	3	5	15
W-16	15/7	20/7	5	2	3	4	14
W-17	22/7	27/7	4	3	3	5	15
W-18	29/7	3/8	5	3	3	5	16
W-19	5/8	10/8	5	3	3	5	16
W-20	12/8	17/8	4	2	2	4	12
W-21	19/8	24/8	4	3	3	3	13
W-22	26/8	31/8	5	3	3	5	16
W-23	2/9	7/9	4	3	3	4	14
W-24	9/9	14/9	4	3	2	3	12

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	O	M	
W-25	16/9	21/9	3	3	2	4	12
W-26	23/9	28/9	4	3	2	4	13
W-27	30/9	5/10	Board Form Filling Leave				
W-28	7/10	12/10	4	3	2	3	12
W-29	14/10	19/10	4	3	2	3	12
W-30	21/10	26/10	3	0	1	3	7
W-31	28/10	2/11	Diwali Vacations				
W-32	4/11	09/11	3	2	1	4	10
W-33	11/11	16/11	4	2	1	4	11
W-34	18/11	23/11	3	2	1	4	10
W-35	25/11	30/11	3	2	1	3	9

PERIODIC TEST SCHEDULE & RESULT COMMUNICATION

S. Test 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	MPT1	MAIN	5-05-19				Geometrical Optics	Solutions & Colligative properties	Solutions & Colligative Properties, Ionic Equilibrium & ChemInfo (till date)	XII : Relations & Functions (Upto Domain, range and graph of ITF). XI : Straight line, Circle, Conic Section.	3	
2	MCT1	MAIN	19-05-19				Geometrical Optics, Electrostatics (Up to solid sphere)	Solutions & Colligative properties, Coordination Compounds.	Stereoisomerism upto Chiral molecule without chiral carbon, Calculation of number of stereoisomer.	XII : Relations & Functions, Limits (Except continuity & Derivability). XI : Straight line, Circle, Conic Section	3	
3	MCT2	MAIN	16-06-19				Geometrical Optics, Electrostatics, Gravitation	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.	Stereoisomerism, ORM-I, ORM-II (Only Electrophilic Aromatic substitution reaction), ABC - 3 & 4	XII : Relation & Function, Limits, Continuity, Differentiability, Method of Differentiation, Application of Derivatives (Upto Monotonicity). XI : Fundamentals of Mathematics-I & II, Trigonometry, Statistics, Mathematical Reasoning.	3	
4	BPT1	MAIN	16-06-19				Geometrical Optics, Electrostatics, Gravitation	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	Stereoisomerism, ORM-I, ORM-II (Only Electrophilic Aromatic substitution reaction), ABC - 3 & 4	BPT 1 : Relation & Function, Limits, Continuity, Method of Differentiation.	3	
5	MPT3	MAIN	21-07-19				Gravitation, Current Electricity, Measurement Error & Experiments, Heat Transfer, Capacitance Complete	Electrochemistry, Metallurgy, p-Block (13-15 group), Chemical Bonding, Mole concept	ORM-I and ORM-II and Reduction oxidation hydrolysis (Up to Oxidation reaction of alcohol, aldehyde & ketone)	XII : Application of Derivatives, Matrices & Determinant XI : Sequence & Series, Quadratic Equation, Solution of Triangle	3	
6	MCT3	MAIN	11-08-19				Geometrical Optics, Electrostatics, Gravitation, Current Electricity, Measurement Error & Experiments, Heat Transfer, Capacitance, EMF Complete	Solution & Colligative Properties, Solid State, Coordination Compound, Electrochemistry, Metallurgy, Qualitative Analysis, (Only anion), p-Block (15 group, upto Nitric acid), Chemical Equilibrium	Stereoisomerism, ORM-I, ORM-II, ORM-III, ORM-IV (upto Substitution Reaction of Ethers, Epoxides)	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	
7	MPT4	MAIN	25-08-19				EMF, EMI, AC (Upto Resonance)	Qualitative Analysis (Only anion), p-Block (13-16 group), Chemical Equilibrium, Atomic Structure, Periodic Table, BIN	ORM-III, ORM-IV (upto Aromatic Compound Chemical Reaction of Phenol)	XII : 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	
8	MCT4	MAIN	15-09-19				Geometrical Optics, Electrostatics, Gravitation, Current Electricity, Measurement Error & Experiments, Heat Transfer, Capacitance, EMF, EMI, AC	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)	Stereoisomerism, ORM-I, ORM-II, Reduction, Oxidation & Hydrolysis, ORM-III, ORM-IV, Aromatic Compound, Carbonyl Compounds, Carboxylic Acid & Acid Derivatives	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-1 & II, Trigonometry, Straight Line, Circle, Conic Section, Sequence & Series, Quadratic Equation, Solution of Triangle, Statistics, Mathematical Reasoning	3	
9	BPT2	MAIN	15-09-19				Geometrical Optics, Electrostatics, Gravitation, Current Electricity, Measurement Error & Experiments, Heat Transfer, Capacitance, EMF, EMI, AC	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)	Stereoisomerism, ORM-I, ORM-II, Reduction, Oxidation & Hydrolysis, ORM-III, ORM-IV, Aromatic Compound, Carbonyl Compounds, Carboxylic Acid & Acid Derivatives	Board Syllabus : Relation & Function, Limits, Continuity, Method of Differentiation, Application of Derivatives, Linear Programming, Matrices & Determinant, Indefinite Integration, Definite Integration & its Application, Probability	3	
10	MPT5	MAIN	13-10-19				AC, Modern Physics-I, Nuclear-Physics Complete	Qualitative Analysis (Only anion), p-Block (13-18 group), Equivalent concept & titrations, Chemical equilibrium, atomic structure, periodic table, BIN, Chemical Kinetics.	Aromatic Compound and Biomolecules	XII : Differential Equation, Probability, Vector & 3D (Upto Dot, cross product). XI : Binomial theorem, Permutation & Combination.	3	
11	MCT5	MAIN	17-11-19				Capacitance, EMF, EMI, AC, Modern Physics-I, Nuclear Physics, Wave Optics, Semiconductor	Solution & Colligative Properties, Solid State, Coordination Compound, Electrochemistry, Metallurgy, Qualitative Analysis, p-Block (15-18 group), Equivalent concept & titrations, Chemical kinetics, surface chemistry.	ORM-I, ORM-II, ORM-III, ORM-IV, Oxidation Reduction Hydrolysis, Aromatic Compound, Carbonyl Compound, Biomolecule, Chemistry in Everyday Life, Physical properties & POC-II	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	MAIN	26-12-19				FULL SYLLABUS	XI + XII FULL SYLLABUS	XI + XII FULL SYLLABUS	FULL SYLLABUS	3	
13	AOT1	MAIN	29-12-19				FULL SYLLABUS	XI + XII FULL SYLLABUS	XI + XII FULL SYLLABUS	FULL SYLLABUS	3	
											39	

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.

Within 4 (Four) Days of Test Conduction

Within 1 Week of Test Conduction

Within 2 Weeks of Test Conduction

Total Testing Hours

RESONANCE BOARD WORKSHEET (RBW) SCHEDULE

PHYSICS		
Week No.	RBW Dist. Date	RBW No.
W-01	01-04-2019	1
W-07	13-05-2019	2
W-11	15-06-2019	3
W-21	19-08-2019	4
W-28	07-10-2019	5
W-33	11-11-2019	6
TOTAL RBWs		6

CHEMISTRY		
Week No.	RBW Dist. Date	RBW No.
W-08	20-05-2019 (O)	1
W-09	27-05-2019 (P)	1
W-19	05-08-2019 (O)	2
W-21	19-08-2019 (P)	2
W-23	02-09-2019 (O)	3
W-29	14-10-2019 (I)	3
TOTAL RBWs		6

MATHEMATICS		
Week No.	RBW Dist. Date	RBW No.
W-06	06-05-2019	1
W-13	24-06-2019	2
W-17	22-07-2019	3
W-22	26-08-2019	4
W-32	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	1,2,3	1	1	1,2,3	8	13	Week-13	1,2,3	17	23,24	1,2,3	9	25	Week-25	35, 36	9	9	35, 36	6
2	Week-2	4,5,6	2	2	4,5,6	8	14	Week-14	4,5,6	18	25,26	4,5,6	9	26	Week-26	37,38,39	10	10	37,38,39	8
3	Week-3	7, 8, 9	3	3	7, 8, 9	8	15	Week-15	7,8,9	19	27,28	7,8,9	9	27	Week-27	Board Form Filling Leave				
4	Week-4	10,11,12	4	4	10,11,12	8	16	Week-16	10,11,12	1	29	10,11,12	8	28	Week-28	40, 41	11	11	40, 41	6
5	Week-5	13,14,15	5	4	13,14,15	8	17	Week-17	13, 14	2	1	13, 14	6	29	Week-29	42, 43	12	12	42, 43	6
6	Week-6	16, 17	6	6	16, 17	6	18	Week-18	15,16,17	-	2	15,16,17	7	30	Week-30	-	-	-	-	-
7	Week-7	18,19,20	7, 8	7	18,19,20	9	19	Week-19	18,19,20	3	3	18,19,20	8	31	Week-31	Diwali Vacations				
8	Week-8	21, 22	9, 10	8,9	21, 22	8	20	Week-20	21, 22	4	4	21, 22	6	32	Week-32	44, 45	13	13	44, 45	6
9	Week-9	23,24,25	11, 12	10,11	23,24,25	10	21	Week-21	23,24,25	5	5	23,24,25	8	33	Week-33	46,47,48	-	14	46,47,48	7
10	Week-10	26,27,28	13, 14	12, 13	26,27,28	10	22	Week-22	26,27,28	6	6	26,27,28	8	34	Week-34	49, 50	-	15	49, 50	5
11	Week-11	29,30,31	15	14,15	29,30,31	9	23	Week-23	29,30,31	7	7	29,30,31	8	35	Week-35	51, 52	-	16	51, 52	5
12	Week-12	32, 33	16, 17	16,17	32, 33	8	24	Week-24	32,33,34	8	8	32,33,34	8	Total Number of DPPs					243	

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

Resonance Eduventures Ltd.

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