

Academic Session: 2017-18

COURSE PLANNER

For Students of

CLASS-XII | AKHIL (EF01)

Target: JEE (Main) 2018

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: 03.04.2017 | Course Ends: 27.12.2017

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:** 561 (P: 187 | C: 187 | M: 187)

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

◆ **Total Duration of Classroom Teaching:** 842 hrs

◆ **Total Duration of Testing Hours (MCTs/MPTs/BPTs/MT/AIOT):** 51 hrs

◆ **Total Academic Hours in AKHIL Course:** 893 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.

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 2017-18. The institute reserves the right to make changes in it in the interest of students.

Holidays/ Vacations (Total: 12-Days): 1. Independence Day: 15th August, 2017 : One Day 2. Deepawali Holidays: From 16th October, 2017 (Monday) to 25th October, 2017 (Wednesday): 10 Days 3. Republic Day: 26th January, 2018: 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 (CI)				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	3	03-Apr-17	1	Mole Concept & Gaseous State	7	03-Apr-17	1	Fundamental of Mathematics	11	03-Apr-17
2	Geometrical Optics	18	07-Apr-17	2	Solid State	7	18-Apr-17	2	Quadratic Equation	5	18-Apr-17
3	Electrostatics	25	02-May-17	3	Solution & Colligative properties	8	06-May-17	3	Set & Relation	3	25-Apr-17
4	Gravitation	3	06-Jun-17	4	Atomic Structure & Quantum Number	3	23-May-17	4	Function	14	29-Apr-17
5	Current Electricity	11	10-Jun-17	5	Periodic Table	2	30-May-17	5	Limits, Continuity & Derivability	13	19-May-17
6	Capacitance	7	26-Jun-17	6	BIN	1	05-Jun-17	6	Method of Differentiation	3	06-Jun-17
7	EMF	11	05-Jul-17	7	Chemical Bonding	8	06-Jun-17	7	Binary Operations	1	10-Jun-17
8	Electro Magnetic Induction	9	21-Jul-17	8	Coordination Compounds	8	26-Jun-17	8	Straight Line + SOT	9	12-Jun-17
9	Alternating Current	4	02-Aug-17	9	Chemical Kinetics & Radioactivity	7	15-Jul-17	9	Circle	5	24-Jun-17
10	Modern Physics -I	7	08-Aug-17	10	Surface Chemistry	2	31-Jul-17	10	Application of Derivatives	14	01-Jul-17
11	Nuclear Physics	5	18-Aug-17	11	Chemical Equilibrium	4	05-Aug-17	11	Matrices & Determinant	12	20-Jul-17
12	Rectilinear Motion	3	24-Aug-17	12	Electrochemistry	9	14-Aug-17	12	Sequence & Series	5	07-Aug-17
13	Projectile Motion	2	29-Aug-17	13	Metallurgy	2	04-Sep-17	13	Indefinite Integration	8	14-Aug-17
14	Relative Motion	3	01-Sep-17	14	Ionic Equilibrium	6	09-Sep-17	14	Definite Integration + Area	14	24-Aug-17
15	Newton's Laws of Motion & Friction	5	05-Sep-17	15	p-block Element (N & O Gases)	4	23-Sep-17	15	Vector & 3-D	14	13-Sep-17
16	Work, Power & Energy	4	12-Sep-17	16	p-block Element (H & N Gases)	2	07-Oct-17	16	Mathematical Reasoning	3	09-Oct-17
17	Circular Motion	4	18-Sep-17	17	Real Gases	4	10-Oct-17	17	Statistics	1	12-Oct-17
18	Simple Harmonic Motion	5	23-Sep-17	18	s-block Elements	3	30-Oct-17	18	Linear Programming	1	14-Oct-17
19	String Waves	4	04-Oct-17	19	Thermodynamics & Thermochemistry	7	06-Nov-17	19	Binomial Theorem	5	26-Oct-17
20	Sound Waves	4	07-Oct-17	20	Equivalent Concept	3	21-Nov-17	20	Permutation & Combination	9	02-Nov-17
21	Waves Optics	4	13-Oct-17	21	P-Block (Boron & Carbon Family)	3	28-Nov-17	21	Probability	8	14-Nov-17
22	Electromagnetic Waves	1	28-Oct-17	22	d-block + f-block Elements	4	05-Dec-17	22	Differential Equation	7	25-Nov-17
23	Semiconductor	4	30-Oct-17	23	Qualitative Analysis	8	16-Dec-17	23	Complex Number	9	05-Dec-17
24	Principle of Communication	2	04-Nov-17	24	IUPAC Nomenclature	4	03-Apr-17	24	Conic	13	18-Dec-17
25	Fluid Mechanics	4	07-Nov-17	25	Structural Identification	2	17-Apr-17				
26	Elasticity	1	11-Nov-17	26	Electronic Effect in organic compounds GOC-I	6	24-Apr-17				
27	Viscosity	1	13-Nov-17	27	Electronic Effect in organic compounds GOC-II	4	15-May-17				
28	Surface Tension	2	14-Nov-17	28	Stereoisomerism	8	29-May-17				
29	Calorimetry & Thermal Expansion	2	16-Nov-17	29	ORM-I	7	26-Jun-17				
30	KTG & Thermodynamics	5	20-Nov-17	30	ORM-II	7	22-Jul-17				
31	Heat Transfer	3	27-Nov-17	31	Reduction, Oxidation & Hydrolysis	4	14-Aug-17				
32	Centre of Mass	7	01-Dec-17	32	ORM-III	6	28-Aug-17				
33	Rigid Body Dynamics	11	07-Dec-17	33	ORM-IV	6	18-Sep-17				
34	Error & Measurement	2	01-Jan-18	34	Aromatic Compound	6	28-Oct-17				
35	Unit & Dimensions	1	03-Jan-18	35	Carbonyl Compounds	5	18-Nov-17				
Total No. of Lectures		187		Total No. of Lectures		187		Total No. of Lectures		187	

WEEKLY LECTURE PLANNER (Per Subject)

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W-1	03/04	08/04	05	03	02	05	15
W-2	10/04	15/04	05	03	02	05	15
W-3	17/04	22/04	05	03	02	05	15
W-4	24/04	29/04	05	03	02	05	15
W-5	01/05	06/05	05	03	02	05	15
W-6	08/05	13/05	05	03	02	05	15
W-7	15/05	20/05	05	03	02	05	15
W-8	22/05	27/05	05	03	02	05	15
W-9	29/05	03/06	05	03	02	05	15
W-10	05/06	10/06	05	03	02	05	15
W-11	12/06	17/06	05	03	02	05	15
W-12	19/06	24/06	05	03	02	05	15
W-13	26/06	01/07	05	03	02	05	15
W-14	03/07	08/07	05	03	02	05	15

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W-15	10/07	15/07	05	03	02	05	15
W-16	17/07	22/07	05	03	02	05	15
W-17	24/07	29/07	05	03	02	05	15
W-18	31/07	05/08	05	03	02	05	15
W-19	07/08	12/08	05	03	02	05	15
W-20	14/08	19/08	05	03	02	05	15
W-21	21/08	26/08	05	03	02	05	15
W-22	28/08	02/09	05	03	02	05	15
W-23	04/09	09/09	05	03	02	05	15
W-24	11/09	16/09	05	03	02	05	15
W-25	18/09	23/09	05	03	02	05	15
W-26	25/09	30/09	01	01	00	01	03
W-27	02/10	07/10	05	03	02	05	15
W-28	09/10	14/10	05	03	02	05	15

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C	M		
W-29	16/10	21/10	Diwali Vacations				
W-30	23/10	28/10	03	02	01	03	09
W-31	30/10	04/11	05	03	02	05	15
W-32	06/11	11/11	05	03	02	05	15
W-33	13/11	18/11	05	03	02	05	15
W-34	20/11	25/11	05	03	02	05	15
W-35	27/11	02/12	05	03	02	05	15
W-36	04/12	09/12	05	03	02	05	15
W-37	11/12	16/12	05	03	02	05	15
W-38	18/12	23/12	05	02	03	05	15
W-39	25/12	30/12	05	03	02	03	13
W-40	01/01	06/01	03	02	01	03	09

PERIODIC TEST SCHEDULE & RESULT COMMUNICATION

S. Test Type and No.	Test Pattern	Periodic Test Date	First Display 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	Organic		
1	MPT-1 JEE (Main)	14-05-17 (Sunday)	18-05-17 (Thursday)	23-05-17 (Tuesday)	25-05-17 (Thursday)	Mathematical Tool, Geometrical Optics (upto lens)	Mole Concept and Gaseous state, Solid State IUPAC Nomenclature, Structural Identification	FOM, Quadratic Equations	3
2	MCT-1 JEE (Main)	28-05-17 (Sunday)	01-06-17 (Thursday)	06-06-17 (Tuesday)	08-06-17 (Thursday)	Mathematical Tools, Geometrical Optics, Electrostatics upto Electric potential.	Mole Concept and Gaseous state, Solid State, Solution & Colligative Properties (upto Henry law)	FOM, Quadratic Equation, Sets and Relations, Function	3
3	MPT-2 JEE (Main)	09-07-17 (Sunday)	13-07-17 (Thursday)	18-07-17 (Tuesday)	20-07-17 (Thursday)	Geometrical Optics, Electrostatics complete.	Solution & Colligative Properties, Atomic Structure, Periodic Table, Chemical Bonding	Sets Relations, Function, IIT, LCD, Straight Line	3
4	MCT-2 JEE (Main)	30-07-17 (Sunday)	03-08-17 (Thursday)	08-08-17 (Tuesday)	10-08-17 (Thursday)	Geometrical Optics, Electrostatics, Gravitation, Current Electricity & Capacitance, EMF complete.	Solution & Colligative Properties, Atomic Structure, Periodic Table, Chemical Bonding, Coordination Compounds	FOM, Quadratic Equation, Sets and Relations, Function, IIT, LCD, Straight Line, SOT, Circle, ADD(Only Tangent & Normal)	3
5	MPT-3 JEE (Main)	20-08-17 (Sunday)	24-08-17 (Thursday)	29-08-17 (Tuesday)	31-08-17 (Thursday)	Gravitation, Current Electricity, Capacitance.	Periodic Table, Chemical Bonding, Coordination Compounds, Chemical Kinetics, Surface Chemistry, Chemical Equilibrium	Circle, ADD, Matrices and Determinant	3
6	MCT-3 + BPT-1 JEE (Main) + Board	10-09-17 (Sunday)	14-09-17 (Thursday)	19-09-17 (Tuesday)	21-09-17 (Thursday)	CT-4: Current Electricity, Capacitance, EMF, IIT, AC, Modern Physics-I, Nuclear Physics, Rectilinear Motion complete BPT-1: Current Electricity, Capacitance, EMF, AC, Modern Physics-I, Nuclear Physics, Rectilinear Motion	Solution & Colligative Properties, Atomic Structure, Periodic Table, Chemical Bonding, Coordination Compounds, Chemical Kinetics, Surface Chemistry, Chemical Equilibrium, Electrochemistry (Till Taught)	FOM, Quadratic Equ., Sets and Relations, Funct. and IIT, LCD, MOD, St. Line + SOT, Circle, ADD, Matrices and Determinant, Sequence and Series, Indefinite Integration BPT: Relations, Functions and IIT, LCD, MOD, Binary Operations, ADD, Matrices and Determinant, Indefinite Integrations	6
7	MPT-4 JEE (Main)	28-10-17 (Sunday)	02-11-17 (Thursday)	07-11-17 (Tuesday)	09-12-17 (Thu.)	EMF; EMI, Alternating Current complete	Electro chemistry, Ionic Equilibrium, p-block (15 to 18) and Real Gases	Sequence and Series, Indefinite Integration, Definite Integration and ITS application, only Vector	3
8	MCT-4 + BPT-2 JEE (Main)	19-11-17 (Sunday)	23-11-17 (Thursday)	28-11-17 (Tuesday)	30-11-17 (Thu.)	GO, Electrostatics, Gravitation, Current electricity, Capacitance, EMF, EMI, AC, Modern Nuclear Physics, Wave optics, Rectilinear, Projectile & Relative Motion, NLM, Friction, WPE, Circular Motion, COM, RBD BPT-2: Full XII syllabus	Mole Concept & Gaseous State, Solid State, Solution & Colligative Properties, Atomic Structure, Periodic Table, Chemical Bonding, Coordination Compounds, Chemical Kinetics, Surface Chemistry, Chemical Equilibrium, Electrochemistry, Ionic Equilibrium, p-block Elements (15 to 18 groups), Real Gases, Qualitative Analysis	FOM, Quadratic Equation, Sets and Relations, Function and IIT, LCD, MOD, St. Line + SOT, Circle, ADD, Matrices and Determinant, Sequence and Series, Indefinite Integration, Definite Integration and its application in area, Vector and 3-D, Statistics, Mathematical Reasoning, Binomial Theorem BPT: Relations, Functions and IIT, LCD, MOD, Binary Operations, ADD, Matrices and Determinant, Indefinite & Definite Integration and its application in area, Vector and 3-D, Linear programming	6
9	MPT-5 JEE (Main)	17-12-17 (Sunday)	21-12-17 (Thursday)	26-12-17 (Tuesday)	28-12-17 (Thu.)	Rectilinear Motion, Projectile Motion, NLM, Friction, WPE Complete.	Real Gases, s-block elements, Thermodynamic & Thermochemistry, Equivalent concept, p-block Elements (B & C Family)	Vector and 3-D, Statistics, Mathematical Reasoning, Binomial Theorem, P and C, Probability, Differential Equations	3
10	Mock-BPT Board (Maths)	06-01-18 (Saturday)	11-01-18 (Thursday)	16-01-18 (Tuesday)	18-01-18 (Thu.)	-	-	Full Syllabus	2
11	Mock-BPT Board (Phy.&Chem.)	09-01-18 (Tuesday)	13-01-18 (Saturday)	16-01-18 (Tuesday)	18-01-18 (Thu.)	Full Syllabus	Full Syllabus	Full Syllabus	4
12	MT JEE (Main)	11-01-18 (Thursday)	15-01-18 (Monday)	18-01-18 (Thursday)	20-01-18 (Sat.)	Full Syllabus	Full Syllabus	Full Syllabus	3
13	AIDT JEE (Main)	28-01-18 (Sunday)	01-02-18 (Thursday)	06-02-18 (Tuesday)	08-02-18 (Thu.)	Full Syllabus	Full Syllabus	Full Syllabus	3
14	MT JEE (Main)	04-03-18 (Sunday)	08-03-18 (Thursday)	13-03-18 (Tuesday)	15-03-18 (Thu.)	Full Syllabus	Full Syllabus	Full Syllabus	3
15	JPT-1 JEE (Main)	11-03-18 (Sunday)	15-03-18 (Thursday)	20-03-18 (Tuesday)	22-03-18 (Thu.)	Full Syllabus	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

51

RESONANCE BOARD WORKSHEET (RBW) SCHEDULE

PHYSICS		
Week No.	RBW Dist. Date	RBW No.
W-10	05-06-2017	1
W-15	10-07-2017	2
W-24	11-09-2017	3
W-35	27-11-2017	4
TOTAL RBWs		4

CHEMISTRY		
Week No.	RBW Dist. Date	RBW No.
W-07	15-05-2017	1
W-16	17-07-2017	2
W-20	21-08-2017	3
W-26	25-09-2017	4
W-32	06-11-2017	5
W-36	04-12-2017	6
W-38	18-12-2017	7
TOTAL RBWs		7

MATHEMATICS		
Week No.	RBW Dist. Date	RBW No.
W-11	12-06-2017	1
W-20	14-08-2017	2
W-25	18-09-2017	3
TOTAL RBWs		3

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	A1,2	A1	A1	A1,2	6	14	Week-14	27,28,29	19	14	27,28,29	8	27	Week-27	17,18,19	11,12	7	17,18,19	9
2	Week-2	3,4	2	2	3,4	6	15	Week-15	30,31	20	15	30,31	6	28	Week-28	20,21,22	13,14	8	20,21,22	9
3	Week-3	5,6	3,4	3	5,6	7	16	Week-16	32,33,34	21	16	32,33,34	8	29	Week-29	Diwali Vacations				
4	Week-4	7,8	5	4	7,8	6	17	Week-17	35,36,37	22	17	35,36,37	8	30	Week-30	23,24	15	9	23,24	6
5	Week-5	9,10	6	5	9,10	6	18	Week-18	38,39	23	18	38,39	6	31	Week-31	25,26	16	10	25,26	6
6	Week-6	11,12	7	6	11,12	6	19	Week-19	40,41,42	24	19	40,41,42	8	32	Week-32	27,28,29	17,18	11	27,28,29	9
7	Week-7	13,14	8,9	7	13,14	7	20	Week-20	B1,2,3	B1	B1	B1,2,3	8	33	Week-33	30,31,32	19,20	12	30,31,32	9
8	Week-8	15,16	10	8	15,16	6	21	Week-21	4,5,6	2	2	4,5,6	8	34	Week-34	33,34	21,22	13	33,34	7
9	Week-9	17,18	11	9	17,18	6	22	Week-22	7,8	3	3	7,8	6	35	Week-35	35,36,37	23,24	14	35,36,37	9
10	Week-10	19,20	12,13	10	19,20	7	23	Week-23	9,10,11	4,5	4	9,10,11	9	36	Week-36	38,39,40	25,26	15	38,39,40	9
11	Week-11	21,22	14,15	11	21,22	7	24	Week-24	12,13	6,7	5	12,13	7	37	Week-37	41,42,43	27,28	16	41,42,43	9
12	Week-12	23,24	16	12	23,24	6	25	Week-25	14,15,16	8,9	6	14,15,16	9	38	Week-38	44,45	29,30	17	44,45	7
13	Week-13	25,26	17,18	13	25,26	7	26	Week-26	0	10	0	0	1	39	Week-39	46,47,48	0	0	46,47,48	6
Total Number of DPPs																			270	

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

Resonance Eduventures Ltd.

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