Resonance®
Educating for better tomorrow

Academic Session: 2017-18

COURSE PLANNER

For Students of

CLASS-XII | SAMBHAV (MF)

Target: AIIMS/NEET 2018

Medium: English | Hindi

COURSE CONCEPT

A Course which offers ample time of 1 year to become an expert in the curriculum of AIIMS/NEET. The course progresses with basic fundamental study; covering upon the syllabus of boards alongwith the preparation for AIIMS/NEET. The course helps in development of concepts, rigorous practice for board exams, as well as competitive exams, enhancement of analytical thinking and increasing the confidence level of aspirant.

Course Commencement: 24.04.2017 | Course Ends: 20.01.2018

RESONANCE TEACHING METHODOLOGY

Preparation for AIIMS/ NEET	Preparation for Board Examination
Classroom Teaching	Classroom Teaching & NCERT Book Discussion
Daily Practice Problems (DPPs)	
Study Material (Sheets/Modules)	Study Material (Sheets/Modules)
Periodic Tests - AIIMS/ NEET Pattern	
Doubt Classes	Doubt Classes

TOTAL ACADEMIC HOURS

- **Course Duration: 39** Weeks
- **Total Number of Lectures: 657** (P:221 | C:219 | B:217)
- **Duration of one lecture:** 1.5 hrs = 90 minutes
- **Total Duration of Classroom Teaching:** 986 hrs
- **Total Duration of Testing Hours:** 44.5 hrs
- **Total Academic Hours in SAMBHAV Course:** 1030 hrs

TEACHING/LEARNING TOOLS

- **Daily Practice Problems (DPPs):** A handout having problems for home assignment, practice and classroom discussion covering current and previous topics. A DPP for AIIMS/NEET contains approximate 8-10 problems.
- **Study Material (Sheets/Modules):** Topic wise study material having key concepts, problems for practice in various Exercise Levels and questions asked in previous years (AIIMS/ NEET/ Board).
- **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 AIIMS/NEET.

Disclaimer:

- The Institute reserves the right to increase/decrease the number of lectures alloted 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: 13-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 calender)

SUBJECT WISE SYLLABUS PLAN

- Topic Name
- Topic Sequence
- Topic Commencement
- No. of Lectures allotted to each Topic

PHYSICS [P]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	NLM	7	24-Apr-17
2	Friction	5	27-Apr-17
3	WPE	7	03-May-17
4	Buffer	6	15-May-17
5	Circular Motion	5	23-May-17
6	Center of Mass	6	29-May-17
7	Geometrical Optics	18	05-Jun- 17
8	Electrostatics	18	26-Jun-17
9	Gravitation	3	17-Jul-17
10	Current Electricity	9	20-Jul-17
11	Heat Transfer	4	31-Jul-17
12	Capacitance	6	04-Aug-17
13	EMF	8	12-Aug-17
14	Electro Magnetic Induction (EMI)	6	24-Aug-17
15	Alternating Current	3	31-Aug-17
16	Atomic Physics	6	04-Sep-17
17	Nuclear Physics	6	11-Sep-17
18	SHM	6	18-Sep-17
19	String Waves	5	25-Sep-17
20	Sound Waves	5	30-Sep-17
21	EMW	2	06-Oct-17
22	Wave Optics	4	09-Oct-17
23	Experiment & Errors	2	13-Oct-17
24	Unit & Dimension	2	26-Oct-17
25	Semiconductor Devices	4	30-Oct-17
26	POC	2	03-Nov-17
27	KTG & Thermodynamics	12	06-Nov-17
28	RBD	8	20-Nov-17
29	Fluid Mechanism	5	29-Nov-17
30	Properties of Matter	5	05-Dec-17
31	NLM	7	11-Dec-17
32	Friction	5	23-Dec-17
33	WPE	7	25-Dec-17
34	Circular Motion	5	02-Jan-18
35	COM	6	08-Jan-18
36	Motion	6	15-Jan-18
Total No. of Lectures		221	

CHEMISTRY [C]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	Atomic Structure	3	24-Apr-17
2	Periodic Table	5	27-Apr-17
3	Chemical Bonding	12	03-May-17
4	Thermodynamics	12	17-May-17
5	Solid State	7	31-May-17
6	Mole Concept	6	08-Jun-17
8	Solution & Colligative Properties	8	26-Jun-17
9	Chemical Equilibrium	8	04-Jul-17
10	Ionic Equilibrium	10	18-Jul-17
11	Electrochemistry	11	03-Aug-17
12	Metallurgy	6	29-Aug-17
13	Chemical Kinetics	9	07-Sep-17
14	Cooridation Compound	9	25-Sep-17
15	Surface Chemistry	8	10-Oct-17
16	P-Block (Nitrogen & Oxygen)	7	06-Nov-17
17	Halogen and Noble Gas	5	16-Nov-17
18	D-Block Compound	4	27-Nov-17
19	Qualitative Analysis	6	04-Dec-17
20	S-Block Compound	4	13-Dec-17
21	P-Block (Boron & Carbon)	6	20-Dec-17
22	Equivalent Concept & Redox Reaction	6	01-Jan-18
22	Gaseous State	6	10-Jan-18
23	Introduction of Organic Chemistry	2	05-Jun-17
24	IUPAC Nomenclature	3	12-Jun-17
25	Structural Isomerism	2	24-Jun-17
26	POC	2	01-Jul-17
27	Electronic Effect	5	08-Jul-17
28	Application of Electronic Effect	6	24-Jul-17
29	Stereo isomers	6	16-Aug-17
30	Hydrocarbon (Alkane/ Alkene/ Alkyne)	5	09-Sep-17
31	Hydrocarbon (Aromatic)	2	27-Sep-17
32	Reduction & Oxydation	2	02-Oct-17
33	Grignard Reagent	2	09-Oct-17
34	Reaction Mechanism	7	30-Oct-17
35	Aromatic Compound	5	25-Nov-17
36	Nitrogen containing compound	2	11-Dec-17
37	Carbonyl Compound & Carboxylic Acid & Derivatives	8	18-Dec-17
38	Biomolecules	1	15-Jan-18
39	Polymer & Chemistry in Everyday life	1	16-Jan-18
Total No. of Lectures		219	

BIOLOGY [B]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	Reproduction in Flowering Plants	10	24-Apr-17
2	Genetics	17	16-May-17
3	Application Biology (Plant Breeding)	3	26-Jun-17
4	Ecology	20	03-Jul-17
5	Cell Biology	13	21-Aug-17
6	Plant Physiology-II	12	19-Sep-17
7	Plant Morphology	7	30-Oct-17
8	Families of Flowering Plant	2	14-Nov-17
9	Plant Anatomy	7	20-Nov-17
10	Plant Physiology-I	7	05-Dec-17
11	Leaving World	1	20-Dec-17
12	Plant Diversity	12	25-Dec-17
13	Biomolecules	7	24-Apr-17
14	Digestion & Absorption of Food	5	09-May-17
15	Breathing & Exchange of Gases	4	22-May-17
16	Reproduction in Organism	2	31-May-17
17	Human Reproduction	9	05-Jun-17
18	Reproductive Health	3	26-Jun-17
19	Evolution	9	03-Jul-17
20	Biology in Human Welfare (Human Health & Disease)	12	24-Jul-17
21	Biology in Human Welfare (Animal Husbandary)	3	28-Aug-17
22	Biology in Human Welfare (Microbes in Human Welfare)	3	04-Sep-17
23	Biotechnology principles & processes	4	11-Sep-17
24	Application of Biology (Biotechnology)	5	19-Sep-17
25	Body fluids & Circulation	4	02-Oct-17
26	Excretory Products and their elimination	2	10-Oct-17
27	Locomotion & Movement	4	26-Oct-17
28	Neural Control & Coordination	6	06-Nov-17
29	Chemical Coordination & Integration	6	20-Nov-17
30	Animal Kingdom including protozoa	12	04-Dec-17
31	Structural Organization in Animal (Animal Tissues)	6	01-Jan-17
Total No. of Lectures		217	

WEEKLY LECTURE PLANNER (Per Subject)

Week No.	Week Duration		No. of Lecture					Total
			P	C		BIOLOGY		
	From	To		P/I	O	Bot	Zoo	
W-1	24/04	29/04	06	06	00	03	03	18
W-2	01/05	06/05	06	06	00	03	02	17
W-3	08/05	13/05	06	06	00	03	03	18
W-4	15/05	20/05	06	06	00	03	03	18
W-5	22/05	27/05	06	06	00	03	03	18
W-6	29/05	03/06	06	06	00	03	03	18
W-7	05/06	10/06	06	04	02	03	03	18
W-8	12/06	17/06	06	04	02	03	03	18
W-9	19/06	24/06	06	04	02	03	03	18
W-10	26/06	01/07	06	04	02	03	03	18
W-11	03/07	08/07	06	04	02	03	03	18
W-12	10/07	15/07	06	04	02	03	03	18
W-13	17/07	22/07	06	04	02	03	03	18

Week No.	Week Duration		No. of Lecture					Total
			P	C		BIOLOGY		
	From	To		P/I	O	Bot	Zoo	
W-14	24/07	29/07	06	04	02	03	03	18
W-15	31/07	05/08	06	04	02	03	03	18
W-16	07/08	12/08	06	03	02	03	03	17
W-17	14/08	19/08	06	03	01	03	01	14
W-18	21/08	26/08	05	04	02	03	03	17
W-19	28/08	02/09	04	04	02	03	03	16
W-20	04/09	09/09	06	04	02	03	03	18
W-21	11/09	16/09	06	04	02	03	03	18
W-22	18/09	23/09	06	04	02	03	03	18
W-23	25/09	30/09	06	04	02	03	03	18
W-24	02/10	07/10	06	04	02	03	03	18
W-25	09/10	14/10	06	04	02	03	03	18
W-26	16/10	21/10	Diwali Vacations					

Week No.	Week Duration		No. of Lecture					Total
			P	C		BIOLOGY		
	From	To		P/I	O	Bot	Zoo	
W-27	23/10	28/10	02	02	01	01	01	07
W-28	30/10	04/11	06	04	02	03	03	18
W-29	06/11	11/11	06	04	02	03	03	18
W-30	13/11	18/11	06	04	02	03	03	18
W-31	20/11	25/11	06	04	02	03	03	18
W-32	27/11	02/12	06	04	02	03	03	18
W-33	04/12	09/12	06	04	02	03	03	18
W-34	11/12	16/12	06	04	02	03	03	18
W-35	18/12	23/12	06	04	02	03	03	18
W-36	25/12	30/12	06	04	02	03	03	18
W-37	01/01	06/01	06	04	02	03	03	18
W-38	08/01	13/01	06	04	02	03	03	18
W-39	15/01	20/01	06	04	02	03	03	18

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	Periodic Test Syllabus				Testing Hours
							Physics	Chemistry		Biology	
								Physical/ Inorganic	Organic	Botany	Zoology	
1	PT-1	NEET	14-05-17 (Sunday)	18-05-17 (Thursday)	23-05-17 (Tuesday)	25-07-17 (Thursday)	NLM, Friction	Atomic structure, periodic table, Chemical bonding (Upto Hydrogen bonding)	-	Reproduction in Flowering plants upto Endosperm	Biomolecules	3
2	CT-1	NEET	04-06-17 (Sunday)	08-06-17 (Thursday)	13-06-17 (Tuesday)	15-06-17 (Thursday)	NLM, Friction, WPE, Circular Motion, COM	Atomic structure, periodic table, Chemical bonding Thermodynamics	-	Reproduction in Flowering plants + Genetics upto Gene Interaction	Upto breathing and exchange of gases	3
3	PT-2	AIIMS	25-06-17 (Sunday)	29-06-17 (Thursday)	04-07-17 (Tuesday)	06-07-17 (Thursday)	Geometrical Optics	Solid state, mole concept, solution & Colligative properties(Upto RLVP)	General introduction of Organic compound + IUPAC nomenclature + isomerism	Reproduction in Flowering plants + Genetics - Principles of inheritance & Variations + Molecular basis of Inheritance upto Transcription	Reproduction in organisms+ human reproduction(upto female reproductive system)	3.5
4	CT-2	NEET	16-07-17 (Sunday)	20-07-17 (Thursday)	25-07-17 (Tuesday)	27-07-17 (Thursday)	Geometrical Optics, Electrostatics	Solid state, mole concept, solution & Colligative properties Chemical Equilibrium	General introduction of Organic compound + IUPAC nomenclature + isomerism + I-effect, resonance effect, POC	Genetics + Application Biology - Plant Breeding + Ecology - Organisms and Populations–	Upto Human Reproduction	3
5	PT-3	NEET	13-08-17 (Sunday)	17-08-17 (Thursday)	22-08-17 (Tuesday)	24-08-17 (Thursday)	Electrostatics, Gravitation, Current Electricity, Heat Transfer, Cxapacitance	Solution & colligative properties, Chemical Equilibrium, ionic equilibrium, Electrochemistry (Upto Electrochemical sereis)	Electronic effect + Its application	Ecology - Organisms and Populations + Ecosystem + Environmental Issues	Evolution	3
6	CT-3	AIIMS	27-08-17 (Sunday)	31-08-17 (Thursday)	05-09-17 (Tuesday)	07-09-17 (Thursday)	Geometrical Optics, Electrostatics, Gravitation, Current Electricity, Heat Transfer, Cxapacitance, EMF	Solid state, mole concept, Solution & colligative properties, Chemical Equilibrium, ionic equilibrium, Electrochemistry	Electronic effect + Its application, steoreo isomersm, Geometrical & optical isomers	Genetics + Plant Breeding, Ecology - Environmental Issues, Biodiversity & conservation	Upto human health and disease	3.5
7	PT-4	NEET	17-09-17 (Sunday)	21-09-17 (Thursday)	26-09-17 (Tuesday)	28-09-17 (Thursday)	EMF, EMI, AC, Atomic Physics	Electrochemistry, Metallurgy, Chemical kinetics (Upto effect of cocn. Om rate of reaction	Conformation & preparation and chemical reaction of hydrocarbon	Cell Biology upto Cilia & Flagella	Strategies for enhancement of food production, Microbes in human welfare	3
8	CT-4	NEET	08-10-17 (Sunday)	12-10-17 (Thursday)	17-10-17 (Tuesday)	19-10-17 (Thu.)	Geometrical Optics, Electrostatics, Gravitation, Current Electricity, Heat Transfer, Cxapacitance, EMF, EMI, AC, Atomic Physics, Nuclear Physics, SHM, String Waves, Sound Waves	Solid state, Mole concept, Solution & colligative properties, Chemical Equilibrium, ionic equilibrium, Electrochemistry Coordination Compounds	conformation & preparation and chemical reaction of hydrocarbon (reduction & oxidation)	Ecology-Biodiversity & Conservation only+Cell Biology + Plant Physiology II - Respiration	Complete Syllabus of XII	3
9	PT-5	AIIMS	29-10-17 (Sunday)	02-11-17 (Thursday)	07-11-17 (Tuesday)	09-12-17 (Thu.)	Nuclear Physics, SHM, String Waves, Sound Waves, Wave Optics, Error Analysis & Experiments	Chemical kinetics(from Arrhenius equatation) Coordination Compounds, Surface chemistry	Reduction oxidation & Gringnard reagent	Plant Physiology - II - Respiration + Photosynthesis + Plant growth & development upto cytokinin	XI upto excretory products and their elimination	3.5
10	CT-5	NEET	19-11-17 (Sunday)	23-11-17 (Thursday)	28-11-17 (Tuesday)	30-11-17 (Thu.)	GO, Electrostatics, Gravitation, Current Electricity, Heat Transfer, Cxapacitance, EMF, EMI, AC, Atomic Physics, Nuclear Physics, SHM, String Waves, Sound Waves, Wave Optics, Error Analysis & Experiments, Units & Dimension, Semiconductor Devices & POC, KTG & Thermodynamics	Solid state, mole concept,Solution & colligative properties, Chemical Equilibrium, ionic equilibrium, Electrochemistry Coordination Compounds, Nitrogen and Oxygen family,	Reduction oxidation & Gringnard reagent, reaction mechanic of of Alkyl halide and Alcohol ether)	Plant growth and development + Plant Morphology	Complete Syllabus of class XI &XII	3
11	PT-6	NEET	03-12-17 (Sunday)	07-12-17 (Thursday)	12-12-17 (Tuesday)	14-12-17 (Thu.)	Units & Dimension, Semiconductor Devices & POC, KTG & Thermodynamics, RBD	Surface chemistry, nitrogen and oxygen family, Halogen family & Inert gases, d- block	Reaction mechanic of of Alkyl halide and Alcohol ether) & Aromatic compound (Phenol)	Plant Morphology + Families of flowering Plants, Plant Anatomy upto tissue system	Complete Syllabus of Class XI & XII	3
12	CT-6	AIIMS	24-12-17 (Sunday)	28-12-17 (Thursday)	02-01-18 (Tuesday)	04-01-18 (Thu.)	GP, Electrostatics, Gravitation, Current Electricity, Heat Transfer, Capacitance, EMF, EMI, AC, Atomic & Nuclear Physics, SHM, String Waves, Sound Waves, Wave Optics, Error Analysis & Experiments, Units & Dimension, Semiconductor Devices & POC, KTG & Thermodynamics, RBD, Fluid Mechanics, Properties of Matter, NLM	Solid state, mole concept, Solution & colligative properties, Chemical Equilibrium, ionic equilibrium, Electrochemistry Coordination Compounds, s-block, N & O family, Halogen and Inert gases, d- block, qualitative analysis	Reaction mechanic of of Alkyl halide and Alcohol ether) & Aromatic compound (Phenol / Aniline, nitro benzene, carbonyl compound)	Plant Anatomy+Plant Physiology I - Transport in Plants + Mineral Nutrition upto macro elements	XI + XII Syllabus	3.5
13	FST-1	NEET	14-01-18 (Sunday)	18-01-18 (Thursday)	23-01-18 (Tuesday)	25-01-18 (Thu.)	XI + XII Syllabus	XI + XII Syllabus	XI + XII Syllabus	XI + XII Syllabus	XI + XII Syllabus	3
14	FST-2	AIIMS	21-01-18 (Sunday)	25-01-18 (Thursday)	30-01-18 (Tuesday)	01-02-18 (Thu.)	XI + XII Syllabus	XI + XII Syllabus	XI + XII Syllabus	XI + XII Syllabus	XI + XII Syllabus	3.5
											Total Testing Hours	**44.5**

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.
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
		PHYSICS	CHEMISTRY		BIOLOGY					PHYSICS	CHEMISTRY		BIOLOGY					PHYSICS	CHEMISTRY		BIOLOGY		
			P/I	O	BOT	ZOO					P/I	O	BOT	ZOO					P/I	O	BOT	ZOO	
1	W-1	1,2	1,2	1,2	1,2	1,2,3	11	14	W-14	25,26	27,28	27,28	27,28	40,41,42	11	27	W-27	49	49,50	0	49	0	4
2	W-2	3,4	3,4	3,4	3,4	4,5,6	11	15	W-15	27,28	29,30	29,30	29,30	43,44,45	11	28	W-28	50,51	51,52	51,52	50,51	0	8
3	W-3	5,6	5,6	5,6	5,6	7,8,9	11	16	W-16	29,30	31,32	31,32	31,32	46,47,48	11	29	W-29	52.53	53,54	53,54	52,53	73,74,75	11
4	W-4	-	7,8	7,8	7,8	10,11,12	09	17	W-17	31,32	33,34	33,34	33	49,50	9	30	W-30	54.55	55,56	55,56	54,55	76,77,78	11
5	W-5	7,8	9,10	9,10	9,10	13,14,15	11	18	W-18	33,34	35,36	35,36	34,35	51,52,53	11	31	W-31	56.57	57,58	57,58	56,57	79,80,81	11
6	W-6	9,10	11,12	11,12	11,12	16,17,18	11	19	W-19	35,36	37,38	37,38	36	54,55	9	32	W-32	58.59	59,60	59,60	58,59	82,83,84	11
7	W-7	11,12	13,14	13,14	13,14	19,20,21	11	20	W-20	37,38	39,40	39,40	37,38	56,57	10	33	W-33	60.61	61,62	61,62	60,61	85,86,87	11
8	W-8	13,14	15,16	15,16	15,16	22,23,24	11	21	W-21	39,40	41,42	41,42	39,40	58,59,60	11	34	W-34	62.63	63,64	63,64	62,63	88,89,90	11
9	W-9	15,16	17,18	17,18	17,18	25,26,27	11	22	W-22	41,42	43,44	43,44	41,42	61,62,63	11	35	W-35	64.65	65,66	65,66	64,65	91,92,93	11
10	W-10	17,18	19,20	19,20	19,20	28,29,30	11	23	W-23	43,44	45,46	45,46	43,44	64,65,66	11	36	W-36	66.67	67,68	67,68	66,67	94,95,96	11
11	W-11	19,20	21,22	21,22	21,22	31,32,33	11	24	W-24	45,46	47,48	47,48	45,46	67,68,69	11	37	W-37	68.69	69,70	69,70	68,69	97,98,99	11
12	W-12	21,22	23,24	23,24	23,24	34,35,36	11	25	W-25	47,48	0	49,50	47,48	70,71,72	9	38	W-38	70.71	71,72	71,72	70,71	100,101	10
13	W-13	23,24	25,26	25,26	25,26	37,38,39	11	26	W-26	Diwali Vacations						39	W-39	72.73	0	73,74	0	0	4
																Total Number of DPPs		**73**	**72**	**74**	**71**	**101**	**391**

Resonance Eduventures Ltd.

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STUDY CENTRES (Self Owned): Jaipur: 0141-6060661 | Bhubaneswar, Udaipur, Jodhpur, Agra, Ranchi, Allahabad, Aurangabad, Jabalpur, Raipur, Gwalior, Vadodara, Surat: (STD Code) 6060660
Bhopal: 0755-3192222 | Indore: 0731-4046267 | Lucknow: 0522-3192222 | Nagpur: 0712-3017222 | Patna: 9304002215 | Kolkata, Mumbai, Ahmedabad: (STD Code) 60606600
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