

**Academic Session: 2017-18**

## **COURSE PLANNER** For Students of **CLASS-XII | SANKALP (MP)** **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: 03.04.2017 | Course Ends: 20.01.2018**

### **RESONANCE TEACHING METHODOLOGY**

#### **Preparation for AIPMT/AIIMS**

Classroom Teaching

Daily Practice Problems (DPPs)

Study Material (Sheets/Modules)

Periodic Tests - AIIMS/ NEET Pattern

Doubt Classes

#### **Preparation for Board Examination**

Classroom Teaching & NCERT Book Discussion

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. 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.

### **TOTAL ACADEMIC HOURS**

- ◆ **Course Duration: 38 Weeks**
- ◆ **Total Number of Lectures: 463** (P:148 | C:156 | B:159)
- ◆ **Duration of one lecture: 1.5 hrs = 90 minutes**
- ◆ **Total Duration of Classroom Teaching: 695 hrs**
- ◆ **Total Duration of Testing Hours: 47 hrs**
- ◆ **Total Academic Hours in SANKALP Course: 742 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 2017-18. 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 [P]				CHEMISTRY [C]				BIOLOGY [B]						
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	20	03-Apr-17	PHYSICAL/ INORGANIC				1	Reproduction in Flowering Plants	10	03-Apr-17			
2	Experiments	02	05-May-17	1	Solid State	9	03-Apr-17	2	Genetics	24	01-May-17			
3	Electrostatics	25	08-May-17	2	Coordination Compound	12	24-Apr-17	3	Application Biology (Plant Breeding)	5	26-Jun-17			
4	Gravitation	5	09-Jun-17	3	Solution & Colligative Properties	9	22-May-17	4	Ecology	28	08-Jul-17			
5	Current Electricity	11	19-Jun-17	4	Electrochemistry	12	12-June-17	5	Revision Classes (XI Class Botany)	15	11-Sep-17			
6	Heat Transfer	4	03-July-17	5	Metallurgy	6	10-July-17	6	Reproduction in Organism	2	03-Apr-17			
7	Capacitance	9	10-July-17	6	Chemical Kinetics	11	24-July-17	7	Human Reproduction	9	08-Apr-17			
8	Magnetic Field & Force	13	25-July-17	7	P-Block (Nitrogen & Oxygen)	9	21-Aug-17	8	Reproductive Health	3	01-May-17			
9	Electro Magnetic Induction (EMI)	12	21-Aug-17	8	Surface Chemistry	6	11-Sep-17	9	Revision of Biomolecules	3	08-May-17			
10	Alternating Current	5	11-Sep-17	9	Halogen and Noble Gas	6	25-Sep-17	10	Evolution	9	15-May-17			
11	Modern Physics-I	8	20-Sep-17	10	D-Block Compound	4	09-Oct-17	11	Revision of Digestion & Absorption	2	05-Jun-17			
12	Modern Physics-II	6	03-Oct-17	11	Qualitative Analysis Anionic Radicals	7	30-Oct-17	12	Revision of Breathing & Exchange of Gases	1	10-Jun-17			
13	Wave Optics	6	30-Oct-17	ORGANIC				13	Human Health & Disease	11	12-Jun-17			
14	Semi-conductor Devices	6	09-Nov-17	1	GOC-II	3	03-Apr-17	14	Revision of Excretory System	3	08-Jul-17			
15	Principal of Communication	2	20-Nov-17	2	Stereoisomerism	8	10-Apr-17	15	Revision of Body fluids & Circulation	3	14-Jul-17			
16	EMW	2	24-Nov-17	3	Hydrocarbon	7	01-Mar-17	16	Strategies for Enhancement of Food production	3	17-Jul-17			
17	NCERT Discussion	12	27-Nov-17	4	Aromaticity	2	17-Mar-17	17	Microbes in Human Welfare	3	24-Jul-17			
<b>Total No. of Lectures</b>				<b>148</b>	<b>Total No. of Lectures</b>				<b>156</b>	<b>Total No. of Lectures</b>				<b>159</b>

## WEEKLY LECTURE PLANNER (Per Subject)

Week No.	Week Duration		No. of Lecture						Total
	From	To	P	C		BIOLOGY			
				P/I	O	Bot	Zoo		
W-1	03/04	08/04	03	03	03	02	03	14	
W-2	10/04	15/04	03	03	02	02	02	12	
W-3	17/04	22/04	04	03	03	03	03	16	
W-4	24/04	29/04	06	03	03	03	03	18	
W-5	01/05	06/05	06	03	03	03	03	18	
W-6	08/05	13/05	05	03	03	03	03	17	
W-7	15/05	20/05	06	03	03	03	03	18	
W-8	22/05	27/05	06	03	03	03	03	18	
W-9	29/05	03/06	05	03	03	03	03	17	
W-10	05/06	10/06	06	03	03	03	03	18	
W-11	12/06	17/06	06	03	03	03	03	18	
W-12	19/06	24/06	05	03	02	03	03	16	
W-13	26/06	01/07	06	03	02	03	03	17	

Week No.	Week Duration		No. of Lecture						Total
	From	To	P	C		BIOLOGY			
				P/I	O	Bot	Zoo		
W-14	03/07	08/07	04	03	02	03	03	15	
W-15	10/07	15/07	04	03	02	03	03	15	
W-16	17/07	22/07	04	03	02	03	03	15	
W-17	24/07	29/07	04	03	02	03	03	15	
W-18	31/07	05/08	04	03	02	03	03	15	
W-19	07/08	12/08	03	03	02	03	02	13	
W-20	14/08	19/08	03	02	01	03	02	11	
W-21	21/08	26/08	04	03	02	03	03	15	
W-22	28/08	02/09	04	03	02	03	03	15	
W-23	04/09	09/09	04	03	02	03	03	15	
W-24	11/09	16/09	04	03	02	03	03	15	
W-25	18/09	23/09	04	03	02	03	03	15	
W-26	25/09	30/09	04	03	02	03	03	15	

Week No.	Week Duration		No. of Lecture						Total
	From	To	P	C		BIOLOGY			
				P/I	O	Bot	Zoo		
W-27	02/10	07/10	04	03	02	03	0	12	
W-28	09/10	14/10	03	03	02	03	03	14	
W-29	16/10	21/10	Diwali Vacations						
W-30	23/10	28/10	0	0	0	0	0	0	
W-31	30/10	04/11	04	03	0	0	0	07	
W-32	06/11	11/11	04	03	0	0	0	07	
W-33	13/11	18/11	04	04	0	0	0	08	
W-34	20/11	25/11	04	03	0	0	0	07	
W-35	27/11	02/12	03	0	0	0	0	03	
W-36	04/12	09/12	03	0	0	0	0	03	
W-37	11/12	16/12	03	0	0	0	0	03	
W-38	18/12	23/12	03	0	0	0	0	03	

## 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	Periodic Test Syllabus			Testing Hours
								Physical/ Inorganic	Chemistry	Biology	
1	PT-1	NEET	23-04-17 (Sunday)	27-04-17 (Thursday)	02-05-17 (Tuesday)	04-05-17 (Thursday)	Properties of Matter (Elasticity, viscosity & Surface Tension), Geometrical Optics (Up to Reflection)	Solid State & Atomic structure	GOC-1 & 2, G.I., Chiral Carbon, POS, COS, R/S naming, D/L naming & Optical isomers	Reproduction in Flowering plants upto Female Gametophyte	3
2	CT-1	NEET	14-05-17 (Sunday)	18-05-17 (Thursday)	23-05-17 (Tuesday)	25-07-17 (Thursday)	Geometrical Optics, Experiments (VC & SG)	Solid State, Coordination Compounds & Mole concept	GOC-1 & 2, G.I., Chiral Carbon, POS, COS, R/S naming, D/L naming & Optical isomers, Hydrocarbon	Reproduction in Flowering plants + Genetics upto Law of segregation + Cell Biology (10 questions)	3
3	PT-2	AIIMS	04-06-17 (Sunday)	08-06-17 (Thursday)	13-06-17 (Tuesday)	15-06-17 (Thursday)	Geometrical Optics (Except Reflection), Electrostatics (Up to Potential and Potential Energy), KTG, Thermal Expansion, Calorimetry, Laws of Thermodynamics	Coordination Compounds, Solution, Periodic table	Preparation & Chemical reaction of hydrocarbon, reduction and oxidation, chemical reaction of G.R.	Human embryonic development, reproductive health, evolution upto evidences of evolution	3.5
4	CT-2	NEET	25-06-17 (Sunday)	29-06-17 (Thursday)	04-07-17 (Tuesday)	06-07-17 (Thursday)	Geometrical optics, Electrostatics, Gravitation	Solid State, Coordination Compounds, Solution, Periodic Table, Chemical Bonding	Preparation & Chemical reaction of hydrocarbon, reduction and oxidation, chemical reaction of G.R., chemical reaction of alkyl halide and aryl halide	Reproduction in Organisms, Human Evolution, Biomolecules, Digestion and Absorption Breathing & exchange of gases, Human Diseases	3
5	PT-3	NEET	16-07-17 (Sunday)	20-07-17 (Thursday)	25-07-17 (Tuesday)	27-07-17 (Thursday)	Electrostatics (After Potential Energy), Gravitation, Current Electricity, Heat Transfer, Spring and Sound Waves	Solution, Electro Chemistry, Gaseous State, Thermodynamics.	Preparation and chemical reaction of alcohol, phenol, ether	Evolution, Human health and disease, digestion and absorption, breathing and exchange of gases	3
6	CT-3	AIIMS	13-08-17 (Sunday)	17-08-17 (Thursday)	22-08-17 (Tuesday)	24-08-17 (Thursday)	Geometrical optics, Electrostatics, Gravitation, Current Electricity, Heat Transfer, Capacitance, Magnetic Field (Excluding Magnetic Force)	Solid State, Coordination Compounds, Solution, Electro-chemistry, Metallurgy, Chemical Kinetics, Thermochemistry, Chemical Equilibrium.	Preparation and chemical reaction of alcohol, phenol, ether, chemical reaction of carbonyl compounds	Plant breeding, Ecology - Organisms and Populations + Ecosystem upto Phosphorus cycle	3.5
7	PT-4	NEET	27-08-17 (Sunday)	31-08-17 (Thursday)	05-09-17 (Tuesday)	07-09-17 (Thursday)	Capacitance, Magnetic Field and Force, Rigid Body Dynamics	Metallurgy, Chemical Kinetics, p-Block, Ionic equilibrium	reaction of carbonyl compounds and chemical reaction of amines, and their preparation	Ecology - Ecosystem, Environmental issues upto Ozone depletion + Plant physiology-II - Respiration	3
8	CT-4	NEET	17-09-17 (Sunday)	21-09-17 (Thursday)	26-09-17 (Tuesday)	28-09-17 (Thursday)	Geometrical optics, Electrostatics, Gravitation, Current Electricity, Heat Transfer, Capacitance, Magnetic Induction	Solid State, Coordination Compounds, Solution, Electro-chemistry, Metallurgy, Chemical Kinetics & p-block (N, O family), surface chemistry.	reaction of carbonyl compounds and chemical reaction of amines, and their preparation, bimolecule (carbohydrates)	Complete Ecology upto Loss of Biodiversity + Plant Physiology-II - Photosynthesis + Plant growth & Development (10-15 questions)	3
9	PT-5	AIIMS	08-10-17 (Sunday)	12-10-17 (Thursday)	17-10-17 (Tuesday)	19-10-17 (Thu.)	EMI, AC, Modern Physics-1, SHM, Center of Mass and Momentum Conservation	Chemical kinetics, p-block (XII), surface chemistry, s-Block, p-Block (boron carbon family)	Carbohydrates, amino acid, protein, polymers	Neural Control and Coordination, Structural Organization in Animals, Chemical coordination and integration, Applications of Biotechnology	3.5
10	CT-5	NEET	29-10-17 (Sunday)	02-11-17 (Thursday)	07-11-17 (Tuesday)	09-12-17 (Thu.)	Geometrical optics, Electrostatics, Gravitation, Current Electricity, Heat Transfer, Capacitance, Magnetic Field and Force, Electromagnetic Induction, AC, Modern Physics-1, Modern Physics-2	Solid State, Coordination Compounds, Solution, Electro-chemistry, Metallurgy, Chemical Kinetics & p-block (N, O family), surface chemistry, d-block, s-block compound, Redox reactions.	Full Syllabus	Reproduction in Flowering plants + Plant Physiology - 1 - Transport in Plants + Mineral Nutrition	3
11	PT-6	NEET	19-11-17 (Sunday)	23-11-17 (Thursday)	28-11-17 (Tuesday)	30-11-17 (Thu.)	Modern Physics-2, Wave Optics, Semiconductor Devices, Laws of Motion & Friction, Circular Motion, Work Power & Energy	Halogens-Nobel gas family, Surface chemistry, d-block, Qualitative analysis.	Full Syllabus	Complete Syllabus of Class XI	3
12	RPT-1	NEET	03-12-17 (Sunday)	07-12-17 (Thursday)	12-12-17 (Tuesday)	14-12-17 (Thu.)	XII Syllabus	XII Syllabus	XII Syllabus	XII Syllabus	3
13	RPT-2	NEET	10-12-17 (Sunday)	14-12-17 (Thursday)	19-12-17 (Tuesday)	21-12-17 (Thu.)	XI Syllabus	XI Syllabus	XI Syllabus	XI Syllabus	3
14	FST-1	NEET	17-12-17 (Sunday)	21-12-17 (Thursday)	26-12-17 (Tuesday)	28-12-17 (Thu.)	XI + XII Syllabus	XI + XII Syllabus	XI + XII Syllabus	XI + XII Syllabus	3
15	FST-2	AIIMS	24-12-17 (Sunday)	28-12-17 (Thursday)	02-01-18 (Tuesday)	04-01-18 (Thu.)	XI + XII Syllabus	XI + XII Syllabus	XI + XII Syllabus	XI + XII Syllabus	3.5

Note: 1. Students are advised to refer their notice board for test timings. 2. There 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.

**Total Testing Hours 47**

## 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	27,28	25,26	25,26	27,28	40,41,42	11	27	W-27	53,54	51,52	47,48	0	0	6
2	W-2	3,4	0	3,4	3,4	4,5,6	9	15	W-15	29,30	27,28	27,28	29,30	43,44,45	11	28	W-28	55,56	53,54	49,50	0	0	6
3	W-3	5,6	3,4	5,6	5,6	7,8,9	11	16	W-16	31,32	29,30	29,30	31,32	46,47,48	11	29	W-29	Diwali Vacations					
4	W-4	7,8	5,6	7,8	7,8	10,11,12	11	17	W-17	33,34	31,32	31,32	33,34	49,50	10	30	W-30	0	0	0	0	0	0
5	W-5	9,10	7,8	9,10	9,10	13,14,15	11	18	W-18	35,36	33,34	33,34	35,36	51,52,53	11	31	W-31	57,58	55,56	0	0	0	4
6	W-6	11,12	9,10	11,12	11,12	16,17,18	11	19	W-19	37,38	35,36	35,36	37,38	54,55	10	32	W-32	59,60	57,58	0	0	0	4
7	W-7	13,14	11,12	13,14	13,14	19,20,21	11	20	W-20	39,40	37,38	0	39,40	56,57	8	33	W-33	61,62	59,60	0	0	0	4
8	W-8	15,16	13,14	0	15,16	22,23,24	9	21	W-21	41,42	39,40	37,38	41,42	58,59,60	11	34	W-34	63,64	0	0	0	0	2
9	W-9	17,18	15,16	15,16	17,18	25,26,27	11	22	W-22	43,44	41,42	39,40	43,44	61,62,63	11	35	W-35	65,66	0	0	0	0	2
10	W-10	19,20	17,18	17,18	19,20	28,29,30	11	23	W-23	45,46	43,44	41,42	45,46	64,65,66	11	<b>Total Number of DPPs</b>		<b>66</b>	<b>60</b>	<b>50</b>	<b>52</b>	<b>75</b>	<b>303</b>
11	W-11	21,22	19,20	19,20	21,22	31,32,33	11	24	W-24	47,48	45,46	43,44	47,48	67,68,69	11								
12	W-12	23,24	21,22	21,22	23,24	34,35,36	11	25	W-25	49,50	47,48	45,46	49,50	70,71,72	11								
13	W-13	25,26	23,24	23,24	25,26	37,38,39	11	26	W-26	51,52	49,50	0	51,52	73,74,75	9								

### 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: 0755-6060660 | Indore: 0731-4046267 | Lucknow: 0522-3192222 | Nagpur: 0712-3017222 | Patna: 9304002215 | Kolkata, Mumbai, Ahmedabad: (STD Code) 6060660  
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