



Academic Session: 2018-19

**TARGET\*:  
AIIMS  
NEET**

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# COURSE PLANNER FOR STUDENTS CLASS-XII SANKALP (MP)

**Target: AIIMS/NEET 2019**

**Medium: English | Hindi**

## COURSE CONCEPT

SANKALP course is 2nd year of 2 Yearlong Classroom Contact Program. 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: 02.04.2018 | Course Ends: 29.12.2018**

## RESONANCE TEACHING METHODOLOGY

### Preparation for AIIMS/ NEET

Classroom Teaching

Daily Practice Problems (DPPs)

Study Material (Sheets/Modules)

Periodic Tests - AIIMS/ NEET Pattern

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: 35 Weeks**
- ♦ **Total Number of Lectures: 442** (P:140 | C:147 | B:155)
- ♦ **Duration of one lecture: 1.5 hrs = 90 minutes**
- ♦ **Total Duration of Classroom Teaching: 663 hrs**
- ♦ **Total Duration of Testing Hours: 59.5 hrs**
- ♦ **Total Academic Hours in SANKALP Course: 722.5 hrs**

### Disclaimer:

- ♦ The Institute reserves the right to increase/decrease the number of lectures/tests allotted to any topic and also make changes in the sequence of the topics/tests 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.

**Holidays/ Vacations (Total: 12-Days):** 1. Independence Day: 15<sup>th</sup> August, 2018 : One Day 2. Deepawali Holidays: From 5<sup>th</sup> November, 2018 (Monday) to 14<sup>th</sup> November, 2018 (Wednesday): 10 Days 3. Republic Day: 26<sup>th</sup> January, 2019: 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 [P]				CHEMISTRY [C]				BIOLOGY [B]			
S. No.	Topic Name/Sequence	No of Lectures	Topic Start Date	S. No.	Topic Name/Sequence	No of Lectures	Topic Start Date	S. No.	Topic Name/Sequence	No of Lectures	Topic Start Date
				PHYSICAL/INORGANIC				ZOOLOGY			
1	Geometrical Optics	20	02.04.18	1	Solid State	9	02.04.18	1	Reproduction in Organisms	2	02.04.18
2	Measurement of Error	3	04.05.18	2	Coordination Compounds	12	23.04.18	2	Human Reproduction	9	04.04.18
3	Electrostatics	25	08.05.18	3	Solutions & Colligative Properties	9	21.05.18	3	Reproductive Health	3	30.04.18
4	Gravitation	8	08.06.18	4	Electrochemistry	12	11.06.18	4	Revision of Biomolecules	3	07.05.18
5	Current Electricity	11	18.06.18	5	Metallurgy	6	09.07.18	5	Human Health and Disease	12	14.05.18
6	Heat Transfer	4	02.07.18	6	Chemical kinetics	11	23.07.18	6	Revision of Digestion & Absorption	2	11.06.18
7	Capacitance	9	09.07.18	7	p-block (Nitrogen & Oxygen Family)	9	20.08.18	7	Breathing and Exchange of Gases	1	13.06.18
8	Electro Magnetic Field & Force (EMF)	13	24.07.18	8	p-block (Halogen & Noble Gases)	3	10.09.18	8	Animal Husbandry	3	18.06.18
9	Electromagnetic Induction	12	20.08.18	9	Halogen & Noble Gases	6	17.09.18	9	Microbes in Human Welfare	3	25.06.18
10	Alternating Current	5	10.09.18	10	Surface Chemistry	6	24.09.18	10	Revision of Excretory System	2	02.07.18
11	Modern Physics-1	8	18.09.18	11	d, f-block Compounds	6	08.10.18	11	Revision of Body Fluids & Circulation	2	04.07.18
12	Modern Physics-2	6	02.10.18	12	Qualitative Analysis (Anionic Radicals)	6	22.10.18	12	Revision of Animal Kingdom	5	10.07.18
13	Wave Optics	6	15.10.18	ORGANIC				13	Biotechnology-Principles & Processes	3	23.07.18
14	Solid & Semiconductor Devices	6	24.10.18	1	Stereoisomers	8	02.04.18	14	Applications of Biotechnology	7	30.07.18
15	Principle of Communication (POC)	2	14.11.18	2	Reaction Mechanism of Alkyl/ Aryl halide	4	30.04.18	15	Revision of Locomotion & Movement	1	07.08.18
16	Electromagnetic Waves (EMW)	2	21.11.18	3	Reaction Mechanism of Alcohol ether	4	14.05.18	16	Revision of Neural Control & Coordination	3	08.08.18
				4	Chemical Reaction of Hydrocarbon (Alkane/ Alkene/Alkyne)	6	28.05.18	17	Evolution	9	20.08.18
				5	Grignard Reagent	2	18.06.18	18	Revision of Structural Organization in Animals	3	10.09.18
				6	Aromatic Hydrocarbon	4	25.06.18	19	Revision of Chemical Coordination & Integration	3	17.09.18
				7	Phenol	4	09.07.18	BOTANY			
				8	Aromatic compound (Phenol Aniline, Nitrobenzene)	4	23.07.18	20	Genetics	29	02.04.18
				9	Carbonyl Compound & Carboxylic acid and derivatives	8	06.08.18	21	Application Biology	6	19.06.18
				10	Biomolecules	2	03.09.18	22	Ecology	32	16.07.18
				11	Polymer	2	10.09.18	23	Reproduction in Flowering Plants	12	02.10.18
				12	Chemistry in everyday life	2	17.09.18				
				13	Separation Technique	1	24.09.18				
				14	Environmental chemistry	1	25.09.18				
<b>Total No. of Lectures</b>		<b>140</b>		<b>Total No. of Lectures</b>		<b>147</b>		<b>Total No. of Lectures</b>		<b>155</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	2/4	7/4	3	3	2	2	3	13	
W-2	9/4	14/4	3	3	2	3	2	13	
W-3	16/4	21/4	4	3	2	3	3	15	
W-4	23/4	28/4	6	3	2	3	3	17	
W-5	30/4	5/5	6	3	2	3	3	17	
W-6	7/5	12/5	5	3	2	3	3	16	
W-7	14/5	19/5	6	3	2	3	3	17	
W-8	21/5	26/5	6	3	2	3	3	17	
W-9	28/5	2/6	5	3	2	3	3	16	
W-10	4/6	9/6	6	3	2	3	3	17	
W-11	11/6	16/6	6	3	2	3	0	14	
W-12	18/6	23/6	5	3	2	3	0	13	
W-13	25/6	30/6	6	3	2	3	0	14	

Week No.	Week Duration		No. of Lecture						Total
	From	To	P	C	BIOLOGY				
				P/I	O	Bot	Zoo		
W-14	2/7	7/7	4	3	2	3	3	15	
W-15	9/7	14/7	4	3	2	3	3	15	
W-16	16/7	21/7	4	3	2	3	3	15	
W-17	23/7	28/7	4	3	2	3	3	15	
W-18	30/7	4/8	4	3	2	3	3	15	
W-19	6/8	11/8	3	3	2	3	3	14	
W-20	13/8	18/8	3	2	2	2	3	12	
W-21	20/8	25/8	4	3	2	3	3	15	
W-22	27/8	1/9	4	3	2	3	3	15	
W-23	3/9	8/9	4	3	2	3	3	15	
W-24	10/9	15/9	4	3	2	3	3	15	
W-25	17/9	22/9	4	3	2	3	0	12	
W-26	24/9	29/9	4	3	2	3	0	12	

Week No.	Week Duration		No. of Lecture						Total
	From	To	P	C	BIOLOGY				
				P/I	O	Bot	Zoo		
W-27	1/10	6/10	4	3	0	3	0	10	
W-28	8/10	13/10	3	3	0	3	0	9	
W-29	15/10	20/10	4	3	0	3	0	10	
W-30	22/10	27/10	4	3	0	3	0	10	
W-31	29/10	3/11	4	3	0	3	0	10	
W-32	5/11	10/11	Diwali Vacations						
W-33	12/11	17/11	0	0	0	1	0	1	
W-34	19/11	24/11	4	0	0	3	0	7	
W-35	26/11	1/12	3	0	0	3	0	6	

## 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			Periodic Test Syllabus			Testing Hours
							Physics			Chemistry			Biology			
							Physical/ Inorganic	Organic	Zoology	Physical/ Inorganic	Organic	Botany	Physical/ Inorganic	Organic	Botany	
1	PT-1	NEET	22-04-18 (Sunday)	26-04-18 (Thursday)	01-05-18 (Tuesday)	03-05-18 (Thursday)	Properties of Matter (Elasticity, viscosity & Surface Tension), Geometrical Optics (Up to Reflection)	Solid State	Geometrical Isomers & Optical Isomers	Principles of inheritance & Variations - upto law of segregation	Reproduction in Organisms, Human reproduction (up to menstrual cycle)					
2	CT-1	NEET	13-05-18 (Sunday)	17-05-18 (Thursday)	22-05-18 (Tuesday)	24-05-18 (Thursday)	Geometrical Optics, Experiments (VC & SG)	Solid State + Coordination Compound (till CFT)	All Above & Conformation isomers, Reaction mechanism of Alkyl halide	Principles of inheritance & Variations - upto Sex determination	Reproduction in Organisms, Human Reproduction, Reproductive Health				3	
3	PT-2 + BPT-1	AIIMS+ BOARD	03-06-18 (Sunday)	07-06-18 (Thursday)	12-06-18 (Tuesday)	14-06-18 (Thursday)	Geometrical Optics (Except: Reflection), Electrostatics (Up to Potential & Potential Energy), KTG, Thermal Expansion, Calorimetry, Laws of Thermodynamics	Coordination Compound + Solutions (till Colligative Properties)	Reaction mechanism of Alcohol ether, Chemical reaction of hydrocarbon alkane	Principles of inheritance & Variations + Cell biology	Human Embryonic Development, Reproductive Health + Biomolecules + Human Health & Diseases (upto Acquired Immunity)				3.5	
4	CT-2	NEET	24-06-18 (Sunday)	28-06-18 (Thursday)	03-07-18 (Tuesday)	05-07-18 (Thursday)	Geometrical optics, Electrostatics, Gravitation	CT-1 & Electrochemistry (till Nernst equation)	Reaction mechanism of Alcohol ether, Chemical reaction of Hydrocarbon (Alkane/ Alkene/Alkyne)	Principles of inheritance & Variations + Molecular Genetics upto translation	All Above + Digestion & Absorption				3	
5	PT-3	NEET	15-07-18 (Sunday)	19-07-18 (Thursday)	24-07-18 (Tuesday)	26-07-18 (Thursday)	Electrostatics (after Potential Energy), Gravitation, Current Electricity, Heat Transfer, String and Sound Waves	Electrochemistry	Aromatic Hydrocarbon & Phenol	Molecular Genetics + Plant Breeding + Plant Morphology	Human health & disease + Animal husbandry + Microbes in Human welfare				3	
6	CT-3 + BPT-2	AIIMS+ BOARD	05-08-18 (Sunday)	09-08-18 (Thursday)	14-08-18 (Tuesday)	16-08-18 (Thursday)	Geometrical optics, Electrostatics, Gravitation, Current Electricity, Heat Transfer, Capacitance, Magnetic Field (Excluding Magnetic Force)	All Above & Metallurgy + Chemical Kinetics (till reaction order)	PT-3 + Chemical Reaction of Aniline, Nitrobenzene	Plant Anatomy + Ecology-Organism and Population upto Ecological Adaptation	XII (Full syllabus Except: Application of Biotechnology & Evolution) + Biomolecules + Human Physiology upto Excretion				3.5	
7	PT-4	NEET	26-08-18 (Sunday)	30-08-18 (Thursday)	04-09-18 (Tuesday)	06-09-18 (Thursday)	Capacitance, Magnetic Field and Force, Rigid Body Dynamics	Chemical kinetics + Nitrogen Family (Group Characteristics)	Chemical reaction of Carbonyl Compound & Carboxylic acid and Derivatives	Ecology-Organism and Population + Eco system (upto Productivity)	Biotechnology + Locomotion & Movements + Neural control & coordination				3	
8	CT-4	NEET	16-09-18 (Sunday)	20-09-18 (Thursday)	25-09-18 (Tuesday)	27-09-18 (Thursday)	CT-3 + Electromagnetic Induction	CT-3 + P-block (N and O family)	Chemical reaction of Carbonyl Compound & Carboxylic acid derivatives	Organism & Population + Eco system + Photosynthesis	Full Syllabus (XI + XII) Except: chemical coordination & Integration				3	
9	PT-5 + BPT-3	AIIMS+ BOARD	07-10-18 (Sunday)	11-10-18 (Thursday)	16-10-18 (Tuesday)	18-10-18 (Thursday)	EM, AC, Modern Physics-1, SHM, Center of Mass and Momentum Conservation	Halogens and Nobel Gases	Full Syllabus	Environmental Issues	Evolution + Chemical coordination & Integration + Structural Organization in Animals				3.5	
10	CT-5	NEET	28-10-18 (Sunday)	01-11-18 (Thursday)	06-11-18 (Tuesday)	08-11-18 (Thursday)	CT-4 + AC, Modern Physics-1, Modern Physics-2	All Above & D, F Block	Full Syllabus	Biodiversity & Conservation + Reproduction in Flowering plants (upto development of Female Gametophyte)	Evolution + Chemical coordination & Integration + Structural Organization in Animals				3	
11	PT-6	NEET	18-11-18 (Sunday)	22-11-18 (Thursday)	27-11-18 (Tuesday)	29-11-18 (Thursday)	Modern Physics-2, Wave Optics, Semiconductor Devices, Laws of Motion & Friction, Circular Motion, Work Power & Energy	Full Syllabus	Full Syllabus	Reproduction in Flowering plants + Respiration in Plants	Full Syllabus				3	
12	MBPT-P1	PHYSICS	20-11-18	20-11-18	18.12.2018	18.12.2018	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus				3	
13	MBPT-C1	CHEMISTRY	22-11-18	22-11-18	20.12.2018	20.12.2018	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus				3	
14	MBPT-B1	BIOLOGY	24-11-18	24-11-18	22.12.2018	22.12.2018	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus				3	
15	RPT-1	NEET	09-12-18 (Sunday)	13-12-18 (Thursday)	18-12-18 (Tuesday)	20-12-18 (Thursday)	Rules of Differentiation, Integration, Vectors + Rectilinear Motion + Projectile motion + Relative motion + NLM + Friction + Work Power & Energy + Circular Motion + Centrifugal Force + Simple Harmonic Motion + Waves + Center of Mass & Collision + Variable Mass System	Atomic Structure + Periodic Table + Mole concept + Gaseous State + s-block + Chemical Bonding	Nomenclature & Isomerism + GOC-I + GOC-II	Cell Biology + Plant Anatomy + Plant Morphology + Plant Physiology Organisation in Animals, Biomolecules	Animal Kingdom, Structure Organisation in Animals, Biomolecules				3	
16	RPT-2	NEET	16-12-18 (Sunday)	20-12-18 (Thursday)	25-12-18 (Tuesday)	27-12-18 (Thursday)	Rigid Body Dynamics + Simple Harmonic Motion + Waves + Center of Mass & Collision + Variable Mass System + Calorimetry & Thermal Expansion + Heat Transfer + Fluid Mechanics + Progresses of Matter	Chemical Equilibrium + Thermodynamics Dynamics + Ionic Equilibrium + Redox Reaction	Hydrocarbons + p-block (B-C family)	Plant Physiology II + Biological Classification + Plant Kingdom	Human Physiology				3	
17	RPT-3	NEET	23-12-18 (Sunday)	27-12-18 (Thursday)	01-01-19 (Tuesday)	03-01-19 (Thursday)	Electrostatics + Current Electricity + Capacitance + Magnetic Field & Force + Electromagnetic Induction	Solid State + Solutions & Colligative Properties + Coordination compounds + Surface Chemistry	Haloalkane, Alcohol + Ether + Phenol + Aldehyde + Ketone	Ecology + Reproduction in Flowering Plants	Reproduction in organism, Human Evolution				3	
18	RPT-4	NEET	30-12-18 (Sunday)	03-01-19 (Thursday)	08-01-19 (Tuesday)	10-01-19 (Thursday)	Alternating Current + Modern Physics (Atomic Physics + Nuclear Physics) + Geometrical optics + Wave Optics + Solid & Semiconductor Devices + POC	Electrochemistry + Metallurgy + Chemical Kinetics + p-block (XII) + d-f block + Qualitative Analysis	Carboxylic acid & Derivative + N-Containing compounds + Polymer + Biomolecule + Chemistry in Every day life	Genetics + Plant Breeding	Human Health & Diseases, Animal Husbandry, Microbes in Human Welfare, Biotechnology				3	
19	FST-1	NEET	06-01-19	10-01-19	15-01-19	17-01-19	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus				3	
20	FST-2	AIIMS	13-01-19	17-01-19	22-01-19	24-01-19	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus				3.5	
21	MBPT-P2	PHYSICS	15-01-19	17-01-19	13-02-19	15-02-19	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus				3	
22	MBPT-C2	CHEMISTRY	17-01-19	17-02-19	15-02-19	17-02-19	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus				3	
23	MBPT-B2	BIOLOGY	19-01-19	17-02-19	15-02-19	17-02-19	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus				3	
24	AIOT-1	NEET	27-01-19	31-01-19	05-02-19	07-02-19	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus				3	
25	AIOT-2	AIIMS	24-02-19	28-02-19	05-03-19	07-03-19	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full 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**  
**59.5**

## 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
		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	2	2	2	2	2	10	14	W-14	2	1	2	2	2	9	27	W-27	2	2	0	2	2	8
2	W-2	0	3	2	2	2	9	15	W-15	2	3	2	2	2	11	28	W-28	2	1	0	2	2	7
3	W-3	2	4	2	2	2	12	16	W-16	2	2	2	2	2	10	29	W-29	2	1	0	2	2	7
4	W-4	0	2	2	2	2	8	17	W-17	2	2	2	2	2	10	30	W-30	2	1	0	2	2	7
5	W-5	0	2	2	2	2	8	18	W-18	2	3	2	2	2	11	31	W-31	2	1	0	0	2	5
6	W-6	0	1	2	2	2	7	19	W-19	0	3	2	2	2	9	32	W-32	0	0	0	0	2	2
7	W-7	2	3	2	2	2	11	20	W-20	0	2	2	1	2	7	33	W-33	DIWALI VACATIONS					
8	W-8	2	3	2	2	2	11	21	W-21	2	3	2	2	2	11	34	W-34	2	0	0	2	2	6
9	W-9	2	2	2	2	2	10	22	W-22	2	2	2	1	2	9	35	W-35	0	0	0	2	2	4
10	W-10	2	3	2	2	2	11	23	W-23	2	3	2	2	2	11	<b>Total Number of DPPs</b>		<b>52</b>	<b>64</b>	<b>50</b>	<b>62</b>	<b>70</b>	<b>298</b>
11	W-11	2	1	2	2	2	9	24	W-24	2	2	2	2	2	10								
12	W-12	2	3	2	2	2	11	25	W-25	2	1	1	2	2	8								
13	W-13	2	2	2	2	2	10	26	W-26	2	0	1	2	2	7								

### Resonance Eduventures Ltd.

**PRE-MEDICAL DIVISION CAMPUS:** CG Tower -2, [A-51 (A)], IPIA, Behind City Mall, Jhalawar Road, Kota (Raj.)-05 | **Contact:** 08505099972, 08505099973  
**Reg. & Corporate Office:** CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj) - 324005 | **CIN:** U80302RJ2007PLC024029

**To Know more:** sms **RESO** at **56677** | **E-mail:** [contact@resonance.ac.in](mailto:contact@resonance.ac.in) | **Website:** [www.resonance.ac.in](http://www.resonance.ac.in)

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