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Academic Session: 2019-20

**TARGET:
NEET
AIIMS**

COURSE PLANNER FOR STUDENTS CLASS-XIII SAFAL (MR01)

Target: NEET/AIIMS 2020

Medium: English | Hindi

COURSE CONCEPT

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

Course Commencement: 11.06.2019 | Course Ends: 29.02.2020

RESONANCE TEACHING METHODOLOGY

Preparation for NEET/AIIMS

Classroom Teaching

Daily Practice Problems (DPPs)

Study Material (Sheets/Modules)

Periodic Tests - NEET/AIIMS 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 NEET/AIIMS 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 (NEET/AIIMS).
- ♦ **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 NEET/AIIMS.

TOTAL ACADEMIC HOURS

- ♦ **Course Duration: 38 Weeks**
- ♦ **Total Number of Lectures: 617** (P:212 | C:209 | B:196)
- ♦ **Duration of one lecture: 1.5 hrs = 90 minutes**
- ♦ **Total Duration of Classroom Teaching: 925.5 hrs**
- ♦ **Total Duration of Testing Hours: 47.5 hrs**
- ♦ **Total Academic Hours in SAFAL Course: 973 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 2019-20. The institute reserves the right to make changes in it in the interest of students.

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 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
1	MODERN PHYSICS	10	11-06-19	PHYSICAL/INORGANIC				ZOOLOGY			
2	NUCLEAR PHYSICS	10	22-06-19	1	CHEMICAL BONDING	20	11-06-19	1	LOCOMOTION AND MOVEMENT	8	11-06-19
3	GEOMETRICAL OPTICS	21	04-07-19	2	CHEMICAL EQUILIBRIUM	6	03-07-19	2	BIOMOLECULES	9	01-07-19
4	MATHEMATICAL TOOLS	8	29-07-19	3	IONIC EQUILIBRIUM	10	17-07-19	3	DIGESTION AND ABSORPTION	7	22-07-19
5	RECTILINEAR MOTION	4	07-08-19	4	COORDINATION COMPOUNDS	10	05-08-19	4	BREATHING AND EXCHANGE OF GASES	5	06-08-19
6	PROJECTILE MOTION	3	12-08-19	5	SURFACE CHEMISTRY	4	26-08-19	5	BODY FLUIDS AND CIRCULATION	6	20-08-19
7	RELATIVE MOTION	3	16-08-19	6	P-BLOCK (B & C FAMILY)	3	02-09-19	6	EXCRETORY PRODUCTS & THEIR ELIMINATION	5	03-09-19
8	NEWTONS LAWS OF MOTION	7	20-08-19	7	ELECTROCHEMISTRY	10	09-09-19	7	NEURAL CONTROL & COORDINATION	8	16-09-19
9	FRICTION	2	28-08-19	8	P-BLOCK (N & O FAMILY)	5	25-09-19	8	CHEMICAL COORDINATION & INTEGRATION	5	02-10-19
10	WORK POWER ENERGY (WPE)	7	30-08-19	9	METALLURGY	5	07-10-19	9	REPRODUCTION IN ORGANISMS	1	15-10-19
11	CIRCULAR MOTION	7	07-09-19	10	SOLUTION & COLLIGATIVE PROPERTIES	7	15-10-19	10	HUMAN REPRODUCTION	7	16-10-19
12	CENTER OF MASS (COM)	7	16-09-19	11	p-BLOCK (HALOGEN & NOBLE GAS)	3	07-11-19	11	REPRODUCTIVE HEALTH	2	18-11-19
13	RIGID BODY DIMENSION (RBD)	10	24-09-19	12	THERMODYNAMICS	11	14-11-19	12	EVOLUTION	6	20-11-19
14	SIMPLE HARMONIC MOTION (SHM)	8	05-10-19	13	CHEMICAL KINETICS	8	03-12-19	13	BIOLOGY IN HUMAN WELFARE (HEALTH & DISEASE)	7	04-12-19
15	ELECTROSTATICS	17	15-10-19	14	s-BLOCK	2	17-12-19	14	ANIMAL KINGDOM - INCLUDING PROTOZOA	7	23-12-19
16	GRAVITATION	3	16-11-19	15	d-BLOCK	4	23-12-19	15	STRUCTURAL ORGANISATION IN ANIMALS	5	07-01-20
17	CURRENT ELECTRICITY	8	20-11-19	16	EQUIVALENT CONCEPT	4	30-12-19	16	BIOTECHNOLOGY	5	20-01-20
18	HEAT TRANSFER	4	29-11-19	17	SOLID STATE	5	06-01-20	17	BIOLOGY IN HUMAN WELFARE (MICROBES IN HUMAN WELFARE + ANIMAL HUSBANDRY)	4	29-01-20
19	CAPACITANCE	6	04-12-19	18	GASEOUS STATE	4	14-01-20	BOTANY			
20	EMF	8	11-12-19	19	ATOMIC STRUCTURE	7	22-01-20	18	PLANT PHYSIOLOGY-I (TRANSPORT IN PLANTS)	8	11-06-19
21	EMI	6	20-12-19	20	PERIODIC TABLE	4	04-02-20	19	REPRODUCTION IN FLOWERING PLANTS	9	01-07-19
22	ALTERNATIVE CURRENT (AC)	4	27-12-19	21	MOLE CONCEPT	7	11-02-20	20	CELL BIOLOGY	10	22-07-19
24	STRING WAVES	6	01-01-20	ORGANIC				21	PLANT PHYSIOLOGY-II (RESPIRATION, PHOTOSYNTHESIS)	11	13-08-19
25	SOUND WAVES	6	08-01-20	22	IUPAC NOMENCLATURE	6	11-06-19	22	GENETICS	17	09-09-19
26	WAVE OPTICS	6	15-01-20	23	STRUCTURAL ISOMERISM	8	01-07-19	23	BIOLOGICAL CLASSIFICATION	5	16-10-19
27	SEMICONDUCTOR	5	22-01-20	24	GOC (ELECTRONIC EFFECT)	15	05-08-19	24	PLANT KINGDOM	5	06-11-19
28	EMW	1	28-01-20	25	REACTION MECHANISM OF ALKYL / ARYL HALIDE / ALCOHOL ETHER	9	30-09-19	25	PLANT MORPHOLOGY	7	19-11-19
29	FLUID MECHANICS	4	29-01-20	27	HYDROCARBON	6	11-11-19	26	PLANT ANATOMY	7	04-12-19
30	SURFACE TENSION	3	03-02-20	28	AROMATIC COMPOUND	8	02-12-19	27	ECOLOGY	12	23-12-19
31	ELESTICITY & VISCOSITY	4	06-02-20	29	CARBONYL COMPOUND & CARBOXYLIC ACID AND DERIVATIVES	6	30-12-19	28	PLANT PHYSIOLOGY-I (MINERAL NUTRITION)	2	20-01-20
32	UNITS & DIMENSIONS	2	11-02-20	30	NITROGEN CONTAINING COMPOUNDS	4	20-01-20	29	APPLICATION BIOLOGY	2	22-01-20
33	ERROR ANALYSIS	2	12-02-20	31	BIOMOLECULES & POLYMER	4	03-02-20	30	PLANT PHYSIOLOGY-II (PLANT GROWTH & DEVELOPMENT)	3	27-01-20
34	KTG & THERMODYNAMICS	6	15-02-20	32	GRIGNARD REAGENT	3	17-02-20	31	LIVING WORLD	1	30-01-20
35	CALORIMETRY & THERMAL EXPANSION	4	22-02-20	33	SEPARATION	1	25-02-20	Total No. of Lectures			
Total No. of Lectures				Total No. of Lectures				Total No. of Lectures			
212				209				196			

WEEKLY LECTURE PLANNER (Per Subject)

Week No.	Week Duration		P	No. of Lecture				Total
	From	To		C		BIOLOGY		
				P/I	O	Bot	Zoo	
W-1	10/06	15/06	5	3	2	2	2	14
W-2	17/06	22/06	6	4	2	3	3	18
W-3	24/06	29/06	6	4	2	3	3	18
W-4	01/07	06/07	6	4	2	3	3	18
W-5	08/07	13/07	6	4	2	2	3	17
W-6	15/07	20/07	6	4	2	3	3	18
W-7	22/07	27/07	6	4	2	3	3	18
W-8	29/07	03/08	6	4	2	3	3	18
W-9	05/08	10/08	6	3	2	3	3	17
W-10	12/08	17/08	5	3	1	3	2	14
W-11	19/08	24/08	6	4	2	3	3	18
W-12	26/08	31/08	6	4	2	3	3	18
W-13	02/09	07/09	6	4	2	3	3	18

Week No.	Week Duration		P	No. of Lecture				Total	
	From	To		C		BIOLOGY			
				P/I	O	Bot	Zoo		
W-14	09/09	14/09	5	4	2	3	2	16	
W-15	16/09	21/09	6	4	2	3	3	18	
W-16	23/09	28/09	6	4	2	3	3	18	
W-17	30/09	05/10	6	4	2	3	3	18	
W-18	07/10	12/10	6	4	2	3	3	18	
W-19	14/10	19/10	6	4	2	3	3	18	
W-20	21/10	26/10	2	1	1	1	1	6	
W-21	28/10	02/11	Deepwali Vacations						
W-22	04/11	09/11	6	4	2	3	2	17	
W-23	11/11	16/11	6	4	2	3	3	18	
W-24	18/11	23/11	6	4	2	3	3	18	
W-25	25/11	30/11	6	4	2	3	3	18	
W-26	02/12	07/12	6	4	2	3	3	18	

Week No.	Week Duration		P	No. of Lecture				Total
	From	To		C		BIOLOGY		
				P/I	O	Bot	Zoo	
W-27	09/12	14/12	6	4	2	3	3	18
W-28	16/12	21/12	6	4	2	3	3	18
W-29	23/12	28/12	6	4	2	3	3	18
W-30	30/12	04/01	6	4	2	3	3	18
W-31	06/01	11/01	6	4	2	3	3	18
W-32	13/01	18/01	6	4	2	3	3	18
W-33	20/01	25/01	6	4	2	3	3	18
W-34	27/01	01/02	6	4	2	3	3	18
W-35	03/02	08/02	6	4	2	2	3	17
W-36	10/02	15/02	6	4	2	0	0	12
W-37	17/02	22/02	6	4	2	0	0	12
W-38	24/02	29/02	3	0	2	0	0	5

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	
							Chemistry		Biology			
							Physics	Physical/ Inorganic	Organic	Botany		Zoology
1	PT-1	NEET	07-07-19 (Sunday)				Modern Physics, Nuclear physics & Geometrical Optics	Chemical Bonding	Introduction of Organic Compounds, Classification of organic compound, IUPAC Nomenclature	Transport in plants	Locomotion and movement	3
2	CT-1	NEET	27-07-19 (Sunday)				Modern Physics, Nuclear physics & Geometrical Optics	Chemical Bonding & Chemical Equilibrium	Introduction of Organic Compounds, Classification of organic compound, IUPAC Nomenclature, Isomerism	Transport in plants, Reproduction in Flowering Plants	Locomotion and movement, Biomolecules	3
3	PT-2	NEET	18-08-19 (Sunday)				Mathematical Tools, Rectilinear Motion & Projectile Motion	Chemical Bonding & Ionic Equilibrium	Isomerism, Electronic Effect (I-effect)	Cell Biology (Upto Nucleus)	Digestion and Absorption	3
4	CT-2	AIIMS	08-09-19 (Sunday)				CT-1 + Mathematical Tools, Rectilinear Motion, Projectile Motion, Relative Motion, Newton's Law, Friction, WPE	Chemical Equilibrium, Ionic Equilibrium & Coordination compound	Isomerism, Electronic effect (I-effect, M-effect, Hyperconjugation), Electron Density, Stability of alkenes	Cell biology complete, Reproduction in Flowering plants	Digestion and Absorption, Breathing and exchange of gases	3.5
5	PT-3	NEET	29-09-19 (Sunday)				Circular Motion, COM & RBD (Upto Moment of Inertia)	Ionic Equilibrium, Coordination Compound, Surface Chemistry, Boron-Carbon Family & Electrochemistry (upto ECS)	Complete electronic effect & their application	Genetics (Principles of Inheritance & Variations upto codominance), Cell Respiration and Photosynthesis	Body fluids and circulation, Excretory products and their elimination	3
6	CT-3	NEET	03-11-19 (Sunday)				CT-2 + WPE, Circular Motion, COM, RBD & SHM, Electrostatics (Coulomb's law)	Coordination Compound, Surface Chemistry, Boron-Carbon Family, Electrochemistry, Nitrogen-Oxygen Family & Metallurgy	Complete electronic effect & their application, SN1, SN2, E1, E2 of alkyl halide	CT-2 + Genetics complete	CT-2 + Body fluids and circulation, Excretory products and their elimination, Neural control and coordination	3
7	PT-4	AIIMS	24-11-19 (Sunday)				Electrostatics, Gravitation, Current electricity (Ohms law)	Metalurgy, Solution & Colligative properties, Nitrogen-Oxygen family	Complete Reaction Mechanism, Chemical Reaction of alkane & their preparation	Genetics - Only molecular basis of inheritance, Biological Classification & Plant Kingdom (upto Red Algae)	Chemical coordination and integration, Reproduction in organisms, Human Reproduction (upto Female reproductive system)	3.5
8	CT-4	NEET	15-12-19 (Sunday)				CT-3 + Electrostatics, Gravitation, Current Electricity, Heat Transfer, Capacitor & EMF (upto Magnet + EMF due to moving point charge)	Boron-Carbon Family, Electrochemistry, Nitrogen-Oxygen Family, Solution & Colligative properties, Halogen & Nobel gas and Thermodynamics	Complete Reaction mechanism, Chemical Reaction of alkane, alkene, alkyne & their preparation	CT-3 + Biological Classification, Plant Kingdom, Plant Morphology (upto Fruit)	CT-3 + Chemical Coordination and Integration, Reproduction in Organisms, Human Reproduction, Reproductive health, Evolution	3
9	PT-5	NEET	05-12-19 (Sunday)				EMF, EMI, AC & String wave (Upto Speed in string wave, Power, Intensity)	Thermodynamics, Chemical Kinetics & s-Block	Aromatic compounds & their Chemical reaction	Plant morphology + Plant Anatomy complete + Ecology (Organism and Population upto Ecological Adaptations)	Human health and disease	3
10	CT-5	AIIMS	19-01-20 (Sunday)				CT-4 + EMF, EMI, AC, String wave & Sound wave & Wave optics (YDSE-Interference of Light Waves, Interference by Thin Films)	Chemical Kinetics, s & d-Block, Equivalent concept & Solid state	Aromatic compounds & their Chemical reaction, Chemical reaction of carbonyl compounds	CT-4 + Plant Anatomy complete, Ecology (Organism & Population, Ecosystem, Environmental issues)	CT-4 + Human health and disease, Animal kingdom	3.5
11	AIoT-1	NEET	02-02-20 (Sunday)				Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	3
12	AIoT-2	AIIMS	16-02-20 (Sunday)				Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	3.5
13	FST-1	NEET	01-03-20 (Sunday)				Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	3
14	FST-2	NEET	05-03-20 (Thursday)				Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	3
15	FST-3	AIIMS	08-03-20 (Sunday)				Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	Full Syllabus (XI + XII)	3.5
											Total Testing Hours	47.5

Note: 1. Students are advised to refer their notice board for test timings.
2. 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	3	2	1	-	-	6	14	W-14	3	2	1	2	2	10	27	W-27	3	2	2	2	5	14			
2	W-2	4	2	2	1	1	10	15	W-15	3	2	1	2	2	10	28	W-28	3	3	1	2	5	14			
3	W-3	4	2	2	1	2	11	16	W-16	3	4	-	2	2	11	29	W-29	3	1	-	2	4	10			
4	W-4	4	2	1	2	3	12	17	W-17	3	2	1	2	1	9	30	W-30	3	2	1	3	4	13			
5	W-5	4	2	1	2	3	12	18	W-18	3	2	2	2	2	11	31	W-31	3	3	2	3	6	17			
6	W-6	3	4	1	3	4	15	19	W-19	3	3	1	3	3	13	32	W-32	3	2	2	3	4	14			
7	W-7	3	3	2	4	1	13	20	W-20	1	-	-	2	3	6	33	W-33	3	3	1	5	3	15			
8	W-8	3	3	1	4	2	13	21	DIWALI VACATIONS						34	W-34	3	1	1	7	2	14				
9	W-9	3	2	2	4	3	14	22	W-22	3	2	2	5	2	14	35	W-35	3	3	2	-	3	11			
10	W-10	3	2	-	1	3	9	23	W-23	3	4	1	4	3	15	36	W-36	3	3	1	-	-	7			
11	W-11	3	2	1	2	1	9	24	W-24	3	2	2	2	2	11	37	W-37	3	3	1	-	-	7			
12	W-12	3	2	2	1	2	10	25	W-25	3	2	1	2	3	11	38	W-38	3	-	-	-	-	3			
13	W-13	3	2	1	1	1	8	26	W-26	3	2	1	4	4	14	Total Number of DPPs	113	83	44	85	91	416				

RESONANCE EDUVENTURES LTD.

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