

Academic Session: 2018-19

COURSE PLANNER

For Students of

CLASS-IX | WISDOM (JNN)

Target: JEE (Main + Advanced) 2022

Medium: English

COURSE CONCEPT

Synchronized study of X Board, XII Boards, International Olympiads and National Level Scholastic Exams like National Talent Search Exam (NTSE) and Kishore Vaigyanik Protsahan Yojana (KVPY). Resonance prepares you for JEE (Main + Advanced) in a unique way in which student understands the depth of each and every topic. This means that you are prepared to give your best and optimum performance even if the pattern of the exam is changed at the last minute. Our students do well not only in JEE advanced but also in JEE Main, KVPY, NTSE, X & XII Boards & Other Engineering Entrance Exams.

Course Commencement: 03.04.2018 | Course Ends: 16.02.2018

RESONANCE TEACHING METHODOLOGY

Preparation for JEE (Main + Advanced)

Classroom Teaching
Daily Practice Problems (DPPs)
Study Material (Sheets/Modules)
Doubt Classes

Preparation for Board Examination

Classroom Teaching & NCERT Book Discussion
School Examination Preparatory Sheet (SEP)
Study Material (Sheets/Modules)
Board Pattern Tests (BPTs)
Doubt Classes
Support for Practical (PCB)

TEACHING/ LEARNING TOOLS

- ♦ **School Examination Preparatory Sheets (SEP Sheets):** After every chapter, a homework assignment will be given from chapter which will aid in school examinations and also enhance writing skills of students. This assignments are countersigned by parents and faculties. Detailed remarks are given by faculties which helps students in identifying weak areas.
- ♦ **NTSE Pattern Cumulative Tests (NCT):** These tests are conducted across the nation at Resonance Study Centres to help student gauge their performance at national level. Tests are based on the common minimum syllabus of all classroom programs. The best part is that it is an open test and non-resonites can also participate in these tests making it a talent benchmark test.
- ♦ **Chapter Modules:** On each chapter students will be given chapter practice problems which they have to attempt and submit before the beginning of the next chapter. These solutions will be checked by the faculty and will be returned to the students with remarks and suggestions, thus helping every student to have a very strong command over fundamental concept knowledge, very crucial for getting Top ranks.
- ♦ **Daily Practice Problems (DPP):** Other than concept modules every day DPPs are discussed in classrooms to challenge students in time bound manner and to boost revision of the students.

TOTAL ACADEMIC HOURS

- ♦ **Course Duration:** 46 Weeks
- ♦ **Total Number of Lectures:** 732 (P: 112 | C: 109 | M: 144)
- ♦ **Duration of one lecture:** 55 minutes
- ♦ **Total Duration of Classroom Teaching:** 671 hrs
- ♦ **Total Duration of Testing Hours:** 108 hrs
- ♦ **Total Academic Hours in WISDOM Course:** 779 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 2018-19. The institute reserves the right to make changes in it in the interest of students.

Holidays/Vacations (Total: 32-Days): 1. Resonance Foundation Day: 11th April 2018 | 2. Summer Vacations: 11th to 24 June, 2018 | 3. Independence Day: 15th August, 2018 | 4. Raksha Bandhan: 26th August, 2018 | 5. Anant Chaturdashi: 23th September, 2018 | 6. Dussehra: 19th October, 2018 | 7. Deepawali Holidays: 04th to 14th November, 2018 | 8. Makar Sankranti: 14th January 2019 | 9. Republic Day: 26th January, 2019; (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

◆ No. of Lectures allotted to each Topic

PHYSICS [P]			CHEMISTRY [C]			MATHEMATICS [M]		
S. No.	Topic Name/Sequence	No of Lectures	S. No.	Topic Name/Sequence	No of Lectures	S. No.	Topic Name/Sequence	No of Lectures
1	Mathematical Tools	6	1	Matter -I	9	1	Fundamental of Mathematics-I	21
2	Motion	14	2	Mole concept -I	7	2	Polynomials	15
3	Circular Motion	6	3	Matter -II	5	3	Plane Geometry- I	15
4	Force and Laws of Motion	12	4	Structure of Atom -I	8	4	Plane Geometry- II	10
5	Gravitation	14	5	Periodic table -I	5	5	Mensuration-I	8
6	Fluid	12	6	Chemical Reactions & Equations	7	6	Mensuration-II	7
7	Centre of mass	1	7	Acids bases & salts	11	7	Fundamental of Mathematics-II	10
8	Work, Energy & Power	10	8	Metals & non metals	7	8	Statistics-I	7
9	Wave Motion & Sound	8	9	Carbon & its compounds	14	9	Revision & Doubt	49
10	Projectile motion	4	10	Coal, petroleum & polymers	2			
11	Revision & Doubt	25	11	Nuclear chemistry	6			
			12	Revision & Doubt	28			
Total No. of Lectures		112	Total No. of Lectures		109	Total No. of Lectures		144

PS: A Lecture of 55 minutes usually comprise of 10 minutes of DPP discussion, 15 minutes of Sheet discussion & 30 minutes of Theory Class.

School Examination Preparatory (SEP) Sheet: Schedule

S.No.	Solve Date	Check Date	Test Syllabus					
			Physics	Chemistry	Mathematics	Biology	English	Social Science
1	2/4 to 5/5	7/5 to 12/5			Number System		Tense, Conditionals, Determiners Subject Verb Agreement	India - Size and Location + The Story of Village Palampur
2	30/4 to 05/5	2/7 to 7/7	Motion	Matter in our Surroundings	Coordinate geometry	Cell	The Fun they had, The Road Not Taken, The Lost child, The sound of music	Democracy in the Contemporary World + The French Revolution + Socialism in Europe + The Russian Revolution
3	7/5 to 19/5	28/5 to 2/6	Circular Motion		Linear equation in two variable	Tissue	The Adventures of TOTO, Reported speech Writing section, Wind	Physical Features of India + What is Democracy? Why Democracy?
4	21/5 to 30/6	2/7 to 7/7	Force and Laws of Motion		Polynomial		Iswaran the story teller, Rain on the roof The little girl	People as Resource + Drainage
5	02/7 to 7/7	30/7 to 4/8		Is Matter around us Pure	Introduction to euclid geometry	Improvement in food Resources	Modals, Pronoun, Adjective A truly beautiful mind	Constitutional Design + Nazism and the rise of Hitler
6	09/7 to 28/7	1/10 to 6/10	Gravitation		Lines and angles		In the kingdom of fools The lake Isle of Innisfree	
7	30/7 to 18/8	29/10 to 3/11	Fluid		Congruent triangle		The snake and the mirror, A legend of the northland, The happy prince	Poverty as a Challenge
8	20/8 to 8/8	01/10 to 06/10			Quadrilaterals		Novel (Term-1) My childhood, No men are foreign	Electoral Politics
9	01/10 to 27/10	29/10 to 3/11			Circles		Active and Passive voice Packing	Climate + Natural Vegetation & Wildlife
10	29/10 to 3/11	31/12 to 5/01	Work Energy Power	Atoms and Molecules	Heron's formula	Bio Diversity	Prepositions Weathering the storm in Ersama	Forest Society and Colonialism + Pastoralists in the Modern World + Food Security in India
11	5/11 to 24/11	26/11 to 1/12			Area of parallelograms and triangles	Why do we fall ill?	The last leaf, The duck and the kangaroo Reach for the top	Working of Institutions + Democratic Rights
12	26/11 to 22/12	31/12 to 5/1			Surface area and volume		Connectors The last leaf, The duck and the kangaroo	Peasants and Farmers - The Coming of Modern Agriculture in England + Population
13	31/12 to 19/1	28/1 to 2/2			Statistics		A house is not a home On killing a tree, The bond of love, Clauses	
14	21/1 to 26/1	28/1 to 2/2	Wave, Motion & Sound	Structure of Atom	Probability	Natural Resources	The snake trying, Kathmandu A slumber did my spirit seal	Clothes and A social Culture
15	28/1 to 2/2	28/1 to 2/2			Constructions		The accidental tourist, If I were You The beggar, Novel (Term-2)	

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PERIODIC TEST SCHEDULE & SYLLABUS

JEE Main Pattern Part Test (PT), NTSE Pattern Part Test (NPT), NTSE Pattern Cumulative Test (NCT), School Exam Preparatory Pattern Test (SEP), Open Test (OT) Syllabus										
Periodic Test (PT) Type & No.	PT Date	Test Type	Physics	Chemistry	Mathematics	Biology	Social Science	English	Mental Ability	Hindi
PT-1	29.04.18	Objective	Mathematical Tools	Matter-1, till (Pure substances, Characteristics of pure substances and elements.)	Fundamental of Mathematics- (up to surds and rationalization) and Exponents)	NA	NA	NA	NA	NA
NCT-1	20.05.18	Objective	Basic Mathematics, Motion (till equation of motion (graphical method))	Matter -I	Fundamental of Mathematics-I (Section-A,B,C,E only)	Cell (till go (g)body)	India – Size and Location, Democracy in the Contemporary World, The Story of Village Palampur, The French Revolution, Physical Features of India	NA	Logical alphabet number, coding- decoding, number series	NA
PT-2	08.07.18	Objective	Motion	Matter-1 & 2 complete & Mole concept	Fundamental of mathematics, Polynomials (up to zeroes of polynomials)	NA	NA	NA	NA	NA
OT-1	29.06.18	Objective (Hindi)	NA	NA	NA	NA	NA	Reading Comprehension The Book, How I taught my grandmother to read, The road not taken	NA	वर्ण विचार, लक्ष्यार्ण, दुख का अतिकर
SEP-1	01.07.18	Subjective (Ss & Esg)	Motion, Circular Motion, Force and Laws of Motion (up to 2nd law)	Matter -I	NA	Cell	NA	The Fun they had, The Road Not Taken, The lost child, Article Writing	NA	NA
PT-3	08.07.18	Subjective	Circular motion, Force and Laws of motion (up to impulse of force)	Structure of atom complete	Fundamental of mathematics, Polynomials	Tissue (till plant tissue)	Socialism in Europe and The Russian Revolution, What is Democracy? Why Democracy? + IX RBSE (Geography All)	Subject Verb Agreement, Reported Speech, Determiners, Reading comprehension	Coding-decoding (puzzle based coding, substitution coding, column coding), Number series, Series of letters, Missing term in figure, Mathematical operation	NA
MSEP-1	13.07.18	Subjective	NA	NA	NA	NA	NA	NA	NA	वर्ण विचार, प्रत्यय, रैदास के पद, एक्सट्र मेरी विचार श्रमा लक्ष्यार्ण
SEP-2	15.07.18	Subjective (Maths & SST)	NA	NA	Fundamental of mathematics-I (except Section-D) Polynomials, Plane Geometry-I (Section-A only)	NA	India – Size and Location, Democracy in the Contemporary World, The Story of Village Palampur, The French Revolution, Physical Features of India, Socialism in Europe and The Russian Revolution, What is Democracy? Why Democracy? People as Resource	NA	NA	NA
NCT-2	29.07.18	Objective	Motion, Circular Motion, Force and Laws of Motion	Matter -I, Matter -II (till Classification of colloids)	Fundamental of mathematics-I (except Section-D), Polynomials, Plane Geometry-I (Section-A only)	cell, tissue (till connective tissue)	India – Size and Location, Democracy in the Contemporary World, The Story of Village Palampur, The French Revolution, Physical Features of India, Socialism in Europe and The Russian Revolution, What is Democracy? Why Democracy? People as Resource, Constitutional Design	NA	Logical alphabet number, coding- decoding, number series, Series of letters, Missing term in figure, Mathematical operation, Direction Sense, Linear Seating arrangement	NA
PT-4	19.08.18	Objective	Force and Laws of motion, Gravitation (up to Equations of motion for freely falling object)	Periodic table complete, Chemical reaction and Equation (till Disproportionation or self oxidation)	Plane Geometry- I, Plane Geometry- II (up to midpoint theorem)	tissue	Drainage, People as Resource, Constitutional Design, Nazism and The rise of Hitler, Poverty as a Challenge + IX RBSE (History Ch4 to 7)	Subject verb agreement, Reported speech, Modals, Pronoun, Adjective, Reading comprehension	Direction sense, Seating arrangement, Blood relation	NA
NCT-3	09.09.18	Objective	Motion, Circular Motion, Force and Laws of Motion, Gravitation (up to motion under gravity)	Matter -I, Matter -II	Fundamental of mathematics-I (except Section-D), Polynomials, Plane Geometry-I, Plane Geometry-II (Section-A only)	cell, tissue, Improvement of food resources	India – Size and Location, Democracy in the Contemporary World, The Story of Village Palampur, The French Revolution, Physical Features of India, Socialism in Europe and The Russian Revolution, What is Democracy? Why Democracy? People as Resource, Drainage, Constitutional Design, Nazism and The rise of Hitler, Poverty as a Challenge, Electoral Politics	NA	Logical alphabet number, coding- decoding, number series, Series of letters, Missing term in figure, Mathematical operation, Direction sense, Seating arrangement, Blood relation, Puzzle test, Venn diagram	NA

Major Test Dates: 10th to 30th September 2018 – Syllabus (Term -1)

Subjective

MT-1

PERIODIC TEST SCHEDULE & SYLLABUS

NTSE Pattern Part Test (NPT), NTSE Pattern Cumulative Test (NCT), School Exam Preparatory Pattern Test (SEP), Open Test (OT) Syllabus										
Periodic Test (PT) Type & No.	P.T. Date	Test: Type	Physics	Chemistry	Mathematics	Biology	Social Science	English	Mental Ability	Hindi
C1-2	05.10.18	Objective	NA	NA	NA	NA	NA	Reading comprehension The dog named Duke, Solitary Reaper, Villa for sale	NA	विराम चिह्न, एक घूँस की याद, शैक्षणिक संस्था के यादक धर्मशेखर सेकेट रमन, लीपक का कण्ड
PT-5	21.10.18	Objective	Gravitation, Fluid (up to Uses of Archimedes's principle)	Acid bases & Salt complete	Plane geometry -II, Mensuration-I	Diversity, taxonomy, classification of organisms	Electoral Politics, Climate, Forest Society and Colonialism + IX RBSE	Active and Passive voice, Reported Speech, tense, Conditionals	Puzzle test, Venn diagram, Syllogism, Day & date	NA
NCT4	18.11.18	Objective	Motion, Circular Motion, Force and Laws of Motion, Gravitation, Fluid, Work, Energy, Power (till mechanical energy)	Matter -I, Matter -II, Mole concept -I (till Laws of chemical combination)	Fundamental of mathematics -I (except Section-D), Polynomials, Plane Geometry-I, Plane Geometry -II, Mensuration-I (Section-A only)	Chapter - cell, tissue, improvement of food resources, diversity till plant classification	India - Size and Location, Democracy in the Contemporary World, The Story of Village Palampur, The French Revolution, Physical Features of India, Socialism in Europe and the Russian Revolution, What is Democracy? Why Democracy?, People as Resource, Drainage, Constitutional Design, Nazism and the rise of Hitler, Poverty as a Challenge, Central Pollution Control Board, Forest Society and Colonialism, Natural Vegetation and Wildlife	NA	Logical alphabet number, coding- decoding, number series, Series of letters, Missing term in figure, Mathematical operation, Direction sense, Spotting arrangement, Blood relation, Puzzle test, Venn diagram, Syllogism, Day, date and time sequence	NA
SEP-3	02.12.18	Subjective (S, & C)	Force and Laws of Motion (From units of force to complete), Gravitation, Fluid, Work, Energy, Power (till some other examples of conservation of energy)	Matter -II, Mole concept -I (till Mole concept)	NA	Biodiversity (From taxonomy to nematoda)	NA	My childhood, No men are foreign, Packing, The last leaf, The duck and the kangaroo, Article writing, Story writing	NA	गीत-अंगिर, हम की आड़, शूकरार के समान, अग्नि पर नए इलाके में, चुपकू रहते है हाथ
MSEP-2	07.12.18	Subjective	NA	NA	NA	NA	NA	NA	NA	NA
PT-6	09.12.18	Objective	Fluid, Work, Energy & Power (up to Potential Energy)	Metal & Non metal complete, Carbon & its compounds (till homologous series)	Mensuration -II, FOM-II (upto cyclicity)	NA	NA	NA	NA	NA
SEP-4	16.12.18	Subjective (Matter & SPT)	NA	NA	Plane Geometry -I (except section-A), Plane Geometry -II, Mensuration -I (Section-A only)	NA	Constitutional Design, Drainage, Nazism and the rise of Hitler, Poverty as a challenge, Electoral Politics, Climate, Forest Society and Colonialism, Natural vegetation and Wild life, Working of the institutions, Food Security	NA	NA	NA
OT-1	13.01.19	Objective	Motion, Circular Motion, Force and Laws of Motion, Gravitation	Matter -I, Matter -II	Fundamental of mathematics -I (except Section-D), Polynomials, Plane Geometry-I, Plane Geometry-II, Mensuration -I (Section-A only)	cell, tissue, improvement of food resources	India - Size and Location, Democracy in the Contemporary World, The Story of Village Palampur, The French Revolution, Physical Features of India, Socialism in Europe and the Russian Revolution, What is Democracy? Why Democracy? Why Democracy? People as Resource, Drainage, Constitutional Design, Nazism and the rise of Hitler,	Logical alphabet number, coding- decoding, number series, Series of letters, Missing term in figure, Mathematical operation, Direction sense, Spotting arrangement, Blood relation, Puzzle test, Venn diagram, Syllogism	NA	NA
OT-2	27.01.19	Objective	Fluid, Work, Energy, power, Wave Motion and Sound	Mole concept -I, Structure of Atom-I	Mensuration -I, Mensuration -II, Statistics-I	Biodiversity, Why do we fall ill, Natural resources	Electoral Politics, Climate, Forests Society and Colonialism, Natural Vegetation and Wildlife, Pastoralists in the modern world, Working of Institutions, Food Security, Democratic Rights, Peasants and Farmers	Day, date and time sequence, Dice test, Cube test, Mirror and water image, Paper cutting and folding, Figure partition, & counting, Nonverbal series, Nonverbal analogy, Nonverbal classification, The Coming of Modern Agriculture in England, Population	NA	NA
NCT-5	03.02.19	Objective	Full Syllabus	Matter -I, Matter -II, Mole concept -I, Structure of Atom-I	Fundamental of mathematics -I (except Section-D), Polynomials, Plane Geometry -I, Plane Geometry -II, Mensuration -I, Mensuration -II, Statistics-I	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus

MT-2 Subjective

Major Test Dates: 06th to 16th February 2019

Major Test Dates: 20th February to 10th March 2019

Annual Exam

Date of Reshuffling of Batches: **25.06.2018** | **01.10.2018**