

# TARGET: INDIAN INSTITUTES OF TECHNOLOGY (IITs)



**Resonance**<sup>®</sup>  
Educating for better tomorrow

Academic Session: 2023-24

## COURSE PLANNER

For Students of

**CLASS-IX | WISDOM (JNN)**

Target: JEE (Main + Advanced) 2027

Medium: English

### COURSE CONCEPT

Synchronized study of X Board, XII Boards, International Olympiads and National Level Scholastic Exams like National Talent Search Exam (NTSE).

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, NTSE, X & XII Boards & Other Engineering Entrance Exams.

Course Commencement: 05.04.2023 | Course Ends: 17.02.2024

### 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. These assignments are countersigned by parents and faculties. Detailed remarks are given by faculties which helps students in identifying weak areas.
- ♦ **NTSE Pattern Cumulative Tests:** 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:** 841 (P: 130 | C: 120 | M: 222)  
(B: 109 | SST: 76 | E: 72 | MAT: 36 | H: 76)
- ♦ **Duration of one lecture:** 45 minutes
- ♦ **Total Duration of Classroom Teaching:** 631 hrs
- ♦ **Total Duration of Testing Hours:** 77 hrs
- ♦ **Total Academic Hours in WISDOM Course:** 708 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 2023-24. The institute reserves the right to make changes in it in the interest of students.

**Holidays/Vacations:** 1. Resonance Foundation Day: 11<sup>th</sup> April 2023 | 2. Summer Break: 04<sup>th</sup> June to 18<sup>th</sup> June 2023 | 3. Independence Day: 15<sup>th</sup> August, 2023 | 4. Raksha Bandhan: 30<sup>th</sup> August, 2023 | 5. Anant Chaturdashi: 28<sup>th</sup> September, 2023 | 6. Dussehra: 24<sup>th</sup> October, 2023 | 7. Deepawali Holidays: 09<sup>th</sup> to 19<sup>th</sup> November, 2023 | 8. Winter Break: 25<sup>th</sup> Dec, 2023 to 31<sup>st</sup> December, 2023 | 9. Makar Sankranti: 14<sup>th</sup> January 2024 | 10. Republic Day: 26<sup>th</sup> January, 2024; (Applicable only at Kota SC and at other SC's Deepawali vacation will be informed to students as per respective SC holiday calendar)

**PTSM Schedule:** 06<sup>th</sup> May, 2023 | 19<sup>th</sup> August, 2023 | 30<sup>th</sup> September, 2023 | 16<sup>th</sup> December, 2023 | 10<sup>th</sup> February, 2024 | 12<sup>th</sup> March, 2024

# SUBJECT WISE SYLLABUS PLAN

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

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	Motion	10	1	Matter in our surrounding	12	1	Number System	12
2	Circular Motion	3	2	Is matter Around us Pure	15	2	Coordinate Geometry	3
3	Force and Laws of Motion	7	3	Structure of Atom	11	3	Linear Equation in two Variable	4
4	Gravitation	8	4	Atoms and Molecules	13	4	Introduction to Euclid Geometry	4
5	Fluid	9				5	Lines and Angles	9
6	Work, Energy and Power	10				6	Congruent Triangle	10
7	Wave Motion & Sound	11				7	Heron's Formula	6
	<b>CLASS -10<sup>th</sup></b>					8	Statistics	9
8	Light	16	5	Chemical reaction and equation	8	9	Polynomial	11
9	Electricity	11	6	Periodic classification of elements	9	10	Quadrilaterals	8
10	Magnetic Effect of Current and EMI	11	7	Acids, Bases and salts	9	11	Area of Parallelograms and Triangles	6
11	Source of Energy	8	8	Metals and Nonmetals	9	12	Circles	5
12	Revision & Doubt Class	26	9	Carbon and its compounds	18	13	Construction	3
			10	Revision & Doubt Class	16	14	Surface Area and Volume	6
						15	Probability	3
							<b>CLASS -10<sup>th</sup></b>	
						16	Real Number	8
						17	Polynomial	8
						18	Linear Equation in two Variable	6
						19	Quadratic Equation	5
						20	Similar Triangle	5
						21	Circles	4
						22	Trigonometry	5
						23	Height and Distances	3
						24	Area Related to Circles	4
						25	Surface Area and Volume	9
						26	Coordinate Geometry	6
						27	Probability	3
						28	Statistics	7
						29	Arithmetic Progression	5
						30	Constructions	4
						31	Revision & Doubt Class	41
	<b>Total No. of Lectures</b>	<b>130</b>		<b>Total No. of Lectures</b>	<b>120</b>		<b>Total No. of Lectures</b>	<b>222</b>

**PS:** A Lecture of 45 minutes usually comprise of 15 minutes of Sheet discussion & 30 minutes of Theory Class.

## School Examination Preparatory (SEP) Sheet: Schedule

S.No.	Test Syllabus					
	Physics	Chemistry	Mathematics	Biology	English	Social Science
1			Number System		Tense, Conditionals, Determiners Subject Verb Agreement	India – Size and Location + The Story of Village Palampur
2	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	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	Newton's Laws of Motion		Introduction to euclid geometry		Iswaran the story teller Rain on the roof The little girl	People as Resource + Drainage
5		Is Matter around us Pure	Lines and angles	Improvement in food Resources	Modals, Pronoun, Adjective A truly beautiful mind	Constitutional Design + Nazism and The rise of Hitler
6	Gravitation		Congruent triangle		In the kingdom of fools The lake Isle of Innisfree	
7	Fluid		Heron's formula		The snake and the mirror, A legend of the northland, The happy prince	Poverty as a Challenge
8			Statistics		Novel (Term-1) My childhood, No men are foreign	Electoral Politics
9			Polynomial		Active and Passive voice Packing	Climate + Natural Vegetation & Wildlife
10	Work Energy Power	Structure of Atom	Quadrilaterals	Bio Diversity	Prepositions Weathering the storm in Ersama	Forest: Society and Colonialism + Pastoralists in the Modern World + Food Security in India
11			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			Circles		Connectors The last leaf The duck and the kangaroo	Peasants and Farmers - The Coming of Modern Agriculture in England + Population
13			Constructions		A house is not a home On killing a tree, The bond of love, Clauses	
14	Wave, Motion & Sound	Atoms and Molecules	Surface area and volume	Natural Resources	The snake trying, Kathmandu A slumber did my spirit, seal	Clothes and A social Culture
15			Probability		The accidental tourist, If I were You The beggar, Novel (Term-2)	

**Resonance Eduventures Ltd.**

**PCCP Head Office:** CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Rajasthan)- 324005 | **Tel. No.:** 0744-2777769

**To Know more:** 📞 8824078330 | **E-mail:** pccp@resonance.ac.in | **Website:** www.pccp.resonance.ac.in | **CIN:** U80302RJ2007PLC024029

# Academic Planning & Test Grid

JEE Main Pattern Part Test (PT), NTSE Pattern Cumulative Test, School Exam Preparatory Pattern Test (SEP), Major Test (MT) Syllabus										
Serial Test Type & No.	PT Date	Test Type	Physics	Chemistry	Mathematics	Biology	Social Science	English	Mental Ability	Hindi
PT1 (2+1=3 Hr) (PCM+ Bio, SST, MAT)	30.04.23	Objective	Motion (Complete)	Matter in our Surrounding upto interconversion of states of matter	Number System, Coordinate geometry	Cell (upto golgi body)	India – Size and Location, The Story of Village Palampur	NA	Logical alphabet number, coding-decoding (letter-letter coding, letter-number coding)	NA
SEP1 (3 Hr/1.5 Hr) (Sc. & Eng)	14.05.23	Subjective (offline) /Objective (Online)	Motion, Circular Motion	Matter in our Surrounding	NA	Cell, Tissue (upto meristematic tissue)	NA	Reading, Comprehension, Tense, Conditionals, subject verb agreement, Determiners, the fun they had	NA	NA
CT1 (1 Hr) (Hindi/Eng)	19.05.23	Objective	NA	NA	NA	NA	NA	Reading Comprehension the fun they had, The road not taken, The Lost child	NA	शब्द और पद अनुसार और अनुनासिक, दुख का अधिकार, उपसर्ग
SEP2 (3 Hr/1.5 Hr) (Maths & SST)	25.06.23	Subjective (offline) /Objective (Online)	NA	NA	Number System, Coordinate geometry, Linear Equation in two variable, Lines and Angles	NA	India-Size and Location, The Story of Village Palampur, The French Revolution, Physical Features of India.	NA	NA	NA
MSEP1 (1.5 hr) (Hindi)	30.06.23	Subjective	NA	NA	NA	NA	NA	NA	NA	अनुस्वार और अनुनासिक, शब्द और पद, एवरस्ट शो शिखर यात्रा, उपसर्ग, प्रत्यय
PT2 (2+1=3 Hr) (PCM+ Bio, SST, MAT)	09.07.23	Objective	Motion, Circular Motion, Force and laws of motion	Matter in our Surrounding, Is matter Around us Pure upto separation techniques	Linear Equation in two variable, Lines and Angles, Congruent triangle	Cell, Tissue, Improvement, in food resources (upto storage of grain)	India-Size and Location, The Story of Village Palampur, The French Revolution, Physical Features of India, Constitutional Design	NA	Logical alphabet number, coding-decoding, number series, Series of letters, Missing term in figure	NA
SEP3 (3 Hr/1.5 Hr) (Sc. & Eng)	23.07.23	Subjective (offline) /Objective (Online)	Motion, Circular Motion, Force and Laws of Motion, Gravitation	Matter in our Surrounding and Is matter Around us Pure	NA	Tissue (animal tissue) Improvement in food resources, Diversity in living organisms (upto plant kingdom)	NA	Reading, Comprehension, (Story writing, Paragraph writing), The Sound of music, The Adventures of Toto, Reported Speech, Wind, Iswaran the story teller, rain on the roof	NA	NA
SEP4 (3 Hr/1.5 Hr) (Maths & SST)	06.08.23	Subjective (offline) /Objective (Online)	NA	NA	Congruent triangle, Herons Formula, Statistics, Polynomial	NA	The French Revolution, The Story of Village Palampur, Physical Features of India, Socialism in Europe and Russian Revolution, What is Democracy? Why Democracy?, People as a resource, Constitutional Design, Drainage, Socialism in Europe and Russian Revolution	NA	NA	NA
PT3 (2+1=3 Hr) (PCM+ Bio, SST, MAT)	27.08.23	Objective	Motion, Circular Motion, Force and Laws of Motion, Gravitation, Fluid	Matter in our Surrounding and Is matter Around us Pure, Structure of atom, Atoms and Molecules upto chemical formulae	Herons Formula, Statistics, Polynomial, Quadrilaterals, Area of parallelograms and triangles	Cell, Tissue, Improvement in food Resources, Diversity in living organisms	India-Size and Location, The Story of Village Palampur, The French Revolution, Physical Features of India, What is Democracy? Why Democracy?, People as a resource, Constitutional Design, Drainage, Socialism in Europe and Russian Revolution	NA	Logical alphabet number, coding-decoding, number series, Series of letters, Missing term in figure, Mathematical operation, Direction sense, Seating arrangement, Blood relation	NA

# Academic Planning & Test Grid

JEE Main Pattern Part Test (PT), NTSE Pattern Cumulative Test, School Exam Preparatory Pattern Test (SEP), Major Test (MT) Syllabus											
Periodic Test (PT) Type & No.	PT Date	Test Type	Physics	Chemistry	Mathematics	Biology	Social Science	English	Mental Ability	Hindi	
PT4 (2+1=3 H) (PCM+ Bio, SST, MAT)	15.10.23	Objective	Work, Energy and Power, Wave Motion & Sound	Atoms and Molecules, Chemical Reaction and Equation upto types of chemical reaction	Circles, surface area and volume, Probability	Nutrition (nutrition in plants), cell	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, Syllogism	NA	
CT2 (1 H) (Hindi & Eng.)	20.10.23	Objective	NA	NA	NA	NA	NA	Reading Comprehension, My Childhood, No Men Are Foreign, The last leaf, A truly beautiful mind, No men are foreign, Packing Weathering the storm in Ersama	MA	तुम कब जाओगे, अतिथि धर्म की आद, अनुवाद, लेखन, पत्र लेखन	
SEP5 (3 H/1.5 H) (Sc. & Eng)	05.11.23	Subjective (offline) Objective (Online)	Work, Energy and Power, Wave Motion & Sound, ( Hill Effects of refraction of Light.)	Atoms and Molecules, Chemical Rxn & Eqn Periodic Table upto Ionisation Energy	NA	Nutrition and Respiration	NA	Reading Comprehension, Modals, (Story writing, Paragraph writing), A legend of Northland, The happy prince, My childhood, No men are foreign, Active & Passive voice, Packing	MA	NA	
SEP6 (3 H/1.5 H) (Maths & SST)	26.11.23	Subjective (offline) Objective (Online)	NA	NA	Real Number, Polynomial, Linear equation in two variable, Quadratic Equation	NA	India- Size and Location, The Story of Village Palampur, The French Revolution, Physical Features of India, Socialism in Europe and Russia, Environmental Issues, Nationalism, Design, Nazism and The rise of Hitler, Poverty as a Challenge, Electoral Politics, Climate, Forest, Society and Colonialism, Natural vegetation and wildlife, Pastoralists in the modern world	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, Syllogism, sequence, dice test	MA	तुम कब जाओगे, अतिथि धर्म की आद, पत्र लेखन, पत्र लेखन
MSEP2 (1.5 Hr) (Hindi)	01.12.23	Subjective	NA	NA	NA	NA	NA	NA	MA	MA	तुम कब जाओगे, अतिथि धर्म की आद, पत्र लेखन, पत्र लेखन
PT5 (2+1=3 H) (PCM+ Bio, SST, MAT)	17.12.23	Objective	Light, Electricity (Hill Combination of resistance- Series & Parallel)	Chemical reactions and equations Periodic Table Acids Bases & salts	Real Number, Polynomial, Linear equation in two variable, Quadratic Equation, Similar triangle, Circles	Nutrition, Respiration, Transportation, Excretion	Nazism and The rise of Hitler, Poverty as a Challenge, Electoral Politics, Climate, Forest society and Colonialism, Pastoralists in the modern world, Natural Vegetation and Wildlife, Working of Institutions	Packing, Weathering the storm in Ersama, The Last Leaf, Connectors, The duck and the kangaroo, Reach for the top, Writing section (Paragraph writing), Reach for the top, A house is not a home, Active & passive voice, Preposition	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, Syllogism, day, date and time sequence, dice test	MA	तुम कब जाओगे, अतिथि धर्म की आद, पत्र लेखन, पत्र लेखन
SEP7 (3 H/1.5 H) (Sc. & Eng)	07.01.24	Subjective (offline) Objective (Online)	Light and Electricity	Periodic Table Acids Bases & salts Metals and Nonmetals upto electrolytic reduction	NA	Transportation, Excretion	NA	NA	MA	MA	तुम कब जाओगे, अतिथि धर्म की आद, पत्र लेखन, पत्र लेखन
SEP8 (2+1=3 H) (Maths & SST)	28.01.24	Subjective (offline) Objective (Online)	NA	NA	Similar triangle, Circles, Trigonometry, Height and Distances, Area related to circles, Surface area and volume	NA	Electoral Politics, Climate, Forest society and Colonialism, Pastoralists in the modern world, Natural Vegetation and Wildlife, Working of Institutions, Food Security	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, Syllogism, 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	MA	तुम कब जाओगे, अतिथि धर्म की आद, पत्र लेखन, पत्र लेखन
PT6 (2+1=3 H) (PCM+ Bio, SST, MAT)	04.02.24	Objective	Electricity and Magnetic effect of current	Acids Bases & salts Metals and Nonmetals Carbon and Its compounds upto IUPAC	Trigonometry, Height and Distances, Area related to circles, Surface area and volume, Coordinate Geometry, Probability	How do organisms reproduce, Heredity and evolution	Forest society and Colonialism, Pastoralists in the modern world, Natural Vegetation and Wildlife, Working of Institutions, Food Security, Population	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, Syllogism, 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	MA	तुम कब जाओगे, अतिथि धर्म की आद, पत्र लेखन, पत्र लेखन

MT-2 Term-2 Subjective

Major Test Term-2 Dates: 20th Feb to 07th March-2024

Date of Reshuffling of Batches: 13.06.2022 | 26.09.2022

Date of Reshuffling of Batches : 19.06.2023 | 25.09.2023