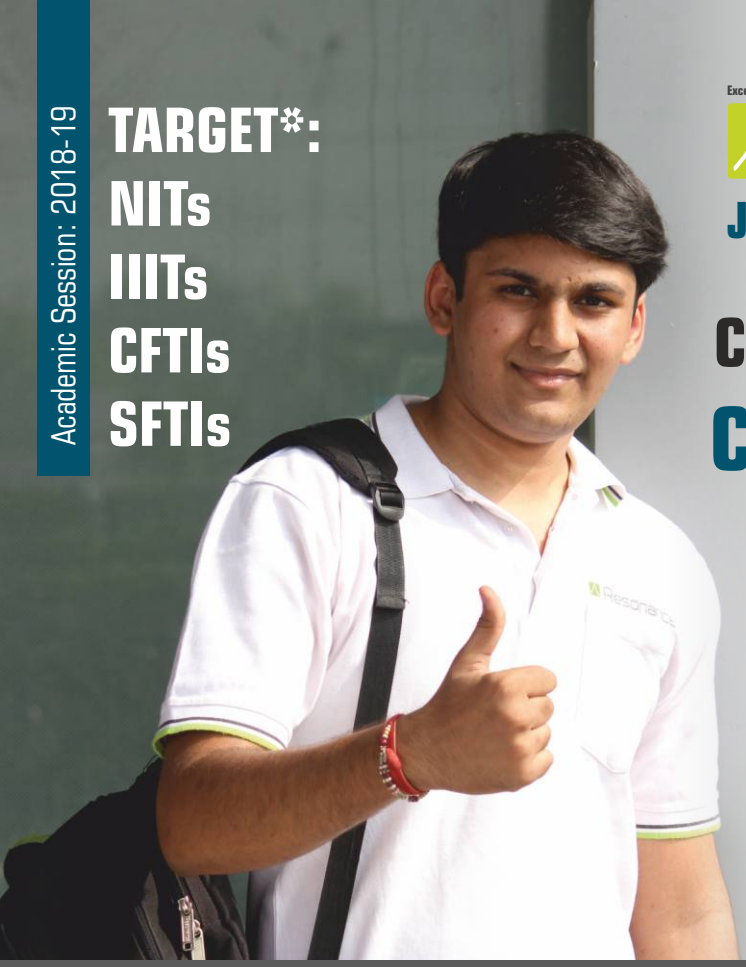
Academic Session: 2018-19

TARGET*:
NITs
IIITs
CFTIs
SFTIs



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COURSE PLANNER FOR STUDENTS

CLASS-XII | ANOOP (EP)

Target: JEE (Main) 2019

Medium: English | Hindi

COURSE CONCEPT

A Course which offers ample time of 1 year to become an expert in the curriculum of JEE (Main). The course progresses with basic fundamental study; covering upon the syllabus of boards alongwith the preparation for JEE (Main).

Course Commencement: 02.04.2018 | Course Ends: 29.12.2018

RESONANCE TEACHING METHODOLOGY

Preparation for JEE (Main)	Preparation for Board Examination
Classroom Teaching	Classroom Teaching & NCERT Book Discussion
Daily Practice Problems (DPPs)	Resonance Board Worksheets (RBWs)
Study Material (Sheets/Modules)	Study Material (Sheets/Modules)
MPT - Main Pattern Part Test	Board (BPTs) Pattern Tests
MCT - Main Pattern Cumulative Test	Doubt Classes
Doubt Classes	Support for Fourth Subject (English)*
	Support for Fifth Subject*
	Support for Practical (Physics & Chemistry)

*The support for Fourth subject (English), Fifth subject & Practical is provided by the institute to students on Optional & Nominal Chargeable basis.

TOTAL ACADEMIC HOURS

- **Course Duration:** 39 Weeks
- **Total Number of Lectures: 500** (P: 153 | C: 194 | M: 153)
- **Duration of one lecture:** 1.5 hrs = 90 minutes
- **Total Duration of Classroom Teaching:** 750 hrs
- **Total Duration of Testing Hours (MCTs/MPTs/BPTs/MT/AIOT):** 54 hrs
- **Total Academic Hours in ANOOP Course:** 804 hrs

TEACHING/ LEARNING TOOLS

- **Daily Practice Problems (DPPs):** A handout having problems for home assignment, practice and classroom discussion covering current and previous topics. Most of the DPPs contains upto 10 problems or more.
- **Board Worksheet:** Questions on board pattern with blank spaces (to write their answers) are provided to students in the form of worksheets. Students after completing the worksheet; have to submit it for evaluation. It ensures written practice of students for board examinations.
- **Study Material (Sheets/Modules):** Topic wise study material having key concepts, problems for practice in various Exercise Levels and questions asked in previous years (Board/ JEE (Main)/ JEE (Advanced) along with school exam material is provided.
- **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 JEE (Main) in offline and online mode. Board Practice Tests (BPTs) are also conducted.

Disclaimer:

- The Institute reserves the right to increase/decrease the number of lectures alloted 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: 12-Days): 1. Independence Day: 15th August, 2018 : One Day **2.** Deepawali Holidays: From 5th November, 2018 (Monday) to 14th November, 2018 (Wednesday): 10 Days **3.** Republic Day: 26th 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 calender)

*NITs: National Institutes of Technology | IIITs: Indian Institutes of Information Technology | CFTIs: Centrally Funded Technical Institutes | SFTIs: Self Financed Technical Institutes

SUBJECT WISE SYLLABUS PLAN

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

PHYSICS [P]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	Geometrical Optics	21	02.04.18
2	Electrostatics	24	07.05.18
3	Gravitation	5	07.06.18
4	Measurement Error	2	14.06.18
5	Buffer	1	18.06.18
6	Current Electricity	11	19.06.18
7	Heat Transfer	4	05.07.18
8	Capacitance	7	11.07.18
9	NCERT Discussion	1	23.07.18
10	EMF	12	24.07.18
11	EMI	11	13.08.18
12	AC	5	30.08.18
13	Modern Physics-I	9	10.09.18
14	Nuclear Physics	6	25.09.18
15	Wave optics	7	11.10.18
16	Semiconductor	5	24.10.18
17	Principle of communication	2	01.11.18
18	Electromagnetic Waves	2	16.11.18
19	Buffer	5	20.11.18
20	Revision	13	28.11.18
Total No. of Lectures		153	

CHEMISTRY [C]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	Solution & Colligative Properties	8	02.04.18
2	Coordination Compounds	11	23.04.18
3	Solid State	8	21.05.18
4	Electrochemistry	13	11.06.18
5	Metallurgy	6	10.07.18
6	Qualitative Analysis (Only Anion)	6	24.07.18
7	Nitrogen Oxygen Family	7	08.08.18
8	Equivalent Concept & Titrations	6	28.08.18
9	Halogen and Nable Gas	5	11.09.18
10	Chemical Kinetics	9	24.09.18
11	Surface Chemistry	6	23.10.18
12	Qualitative Analysis (Only Cation)	6	19.11.18
13	d-Block	4	05.12.18
14	NCERT Discussion	3	17.12.18
15	GOC-II	10	02.04.18
16	Stereoisomerism	14	25.04.18
17	Chemical Kinetics	1	04.06.18
18	Reaction Reagents	2	05.06.18
19	Grignard Reagents	1	12.06.18
20	ORM-I	6	18.06.18
21	ORM-II	10	03.07.18
22	Reduction, Oxidation & Hydrolysis	8	30.07.18
23	ORM-III	7	20.08.18
24	ORM-IV	7	04.09.18
25	Aromatic Compound	8	19.09.18
26	Carbonyl Compounds	9	17.10.18
27	Carboxylic Acid & Acid Derivatives	2	20.11.18
28	Biomolecules	5	26.11.18
29	Polymer	2	10.12.18
30	Chemistry in Everyday Life, Physical Properties & POC-II	4	12.12.18
Total No. of Lectures		194	

MATHEMATICS [M]

S. No.	Topic Name/Sequence	No of Lectures	Starting Date
1	Matrices & Determinant	13	02.04.18
2	Probability	10	21.04.18
3	Vector & 3-D	19	07.05.18
4	Complex Number	13	04.06.18
5	Function & ITF	19	21.06.18
6	Limits, Continuity & Derivability	16	20.07.18
7	Method of Differentiation	4	16.08.18
8	Application of Derivatives	18	22.08.18
9	Indefinite Integration	9	24.09.18
10	Definite Integratin & Its Application	17	16.10.18
11	Differential Equation	8	26.11.18
12	Linear Programming	2	10.12.18
13	Binary Operation	2	12.12.18
14	Revision	3	17.12.18
Total No. of Lectures		153	

WEEKLY LECTURE PLANNER (Per Subject)

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C P/I	C O	M	
W-1	2/4	7/4	4	3	3	4	14
W-2	9/4	14/4	5	3	2	5	15
W-3	16/4	21/4	5	2	3	5	15
W-4	23/4	28/4	4	3	3	4	14
W-5	30/4	5/5	5	3	2	5	15
W-6	7/5	12/5	5	2	3	5	15
W-7	14/5	19/5	5	3	2	5	15
W-8	21/5	26/5	4	3	3	4	14
W-9	28/5	2/6	5	2	3	5	15
W-10	4/6	9/6	5	3	2	5	15
W-11	11/6	16/6	5	3	2	5	15
W-12	18/6	23/6	4	3	3	4	14
W-13	25/6	30/6	5	3	2	5	15
W-14	2/7	7/7	5	3	2	5	15

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C P/I	C O	M	
W-15	9/7	14/7	4	3	3	4	14
W-16	16/7	21/7	5	2	3	5	15
W-17	23/7	28/7	5	2	3	5	15
W-18	30/7	4/8	4	3	3	4	14
W-19	6/8	11/8	4	3	3	4	14
W-20	13/8	18/8	4	2	2	4	12
W-21	20/8	25/8	4	3	3	4	14
W-22	27/8	1/9	4	3	3	4	14
W-23	3/9	8/9	4	3	3	4	14
W-24	10/9	15/9	4	3	3	4	14
W-25	17/9	22/9	4	3	3	4	14
W-26	24/9	29/9	4	2	2	4	12
W-27	1/10	6/10	0	0	0	0	0
W-28	8/10	13/10	4	3	3	4	14

Week No.	Week Duration		No. of Lecture				Total No. of Lectures
	From	To	P	C P/I	C O	M	
W-29	15/10	20/10	4	3	3	4	14
W-30	22/10	27/10	4	3	3	4	14
W-31	29/10	3/11	4	3	3	4	14
W-32	5/11	10/11	Diwali Vacations				
W-33	12/11	17/11	2	1	1	2	6
W-34	19/11	24/11	4	3	3	4	14
W-35	26/11	1/12	4	2	2	4	12
W-36	3/12	8/12	4	3	3	4	14
W-37	10/12	15/12	4	3	3	4	14
W-38	17/12	22/12	2	2	2	2	8
W-39	24/12	29/12	1	1	1	1	4

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
							Physics	Chemistry		Mathematics	
								Physical/ Inorganic	Organic		
1	MPT-1	JEE (Main)	29-04-18 (Sunday)	03-05-18 (Thursday)	08-05-18 (Tuesday)	10-05-18 (Thursday)	Geometrical Optics (Up to Lens)	Solution & Colligative Properties, Thermodynamics, s-Block elements	GOC-II (upto Acidic Strength)	XII : Matrices & Determinant XI: Binomial Theorem, Permutation & Combination	3
2	MCT-1	JEE (Main)	27.05.18 (Sunday)	31-05-18 (Thursday)	05-06-18 (Tuesday)	07-06-18 (Thursday)	KTG & Thermodynamics, Calorimetry & Thermal Expansion, SHM, Wave on a string, Sound waves, Geometrical Optics,Electrostatics upto potential energy	Solution & Colligative Properties, Coordination Compound, Ionic Equilibrium, s- block	GOC-II, Stereoisomerism (upto Enantiomer, Diastreomers, Meso compound & Racemic mixture)	XII: MPT-1 (XII Syllabus) + Probability, Vector 3D (upto dot product, Dc's, Dr's of lines and angle b/w lines) XI: MPT-1 (XI Syllabus) + Sets, Relations & Function, Mathematical Reasoning, Statistics	3
3	MPT-2	JEE (Main)	24-06-18 (Sunday)	28-06-18 (Thursday)	03-07-18 (Tuesday)	05-07-18 (Thursday)	Geometrical Optics, Electrostatics, Measurement Error	Solid State, Coordination compound, Electrochemistry (up to ECS), Gaseous State, Chemical Bonding	GOC-II, Stereoisomerism, Chemical Kinetics, Reaction Reagent	XII: Probability, Vector 3D, complex number (except cube root, nth root, geometry, de-moivere's theorem, rotation) XI: Fundamentals of Mathematics-I, Fundamentals of Mathematics-II, Trigonometry, Solution of Triangle	3
4	MCT-2 & BPT-1	JEE (Main) + Board	15-07-18 (Sunday)	19-07-18 (Thursday)	24-07-18 (Tuesday)	26-07-18 (Thursday)	All Above & Gravitation, Current electricity, Heat transfer	MCT-2: All Above & p-Block (Boron, Carbon Family BPT-1 : Solution & Colligative Properties, Coordination Compound, Solid State, Electrochemistry, (Upto Cell's lead storage batteries & fuel cell)	MPT-2 + Grignard Reagent, ORM-I, IUPAC Nomenclature & Structural isomerism, Structure identification BPT-1: IUPAC Nomenclature, Structural isomerism, Structure identification & Stereoisomerism	XII: MCT-1 (XII Syllabus), Vector 3-D, Complex Number Function (domain, range clasification) XI: FOM-I & II, Trigonometry, Solution of Triangle	6
5	MPT-3	JEE (Main)	05-08-18 (Sunday)	09-08-18 (Thursday)	14-08-18 (Tuesday)	16-08-18 (Thursday)	Electrostatics, Gravitaion, Measurement Error, Current Electricity, Capacitance	Electrochemistry, Metallurgy, Solid state p-block (B & C Family)	Reaction Reagent, Grignard Reagent, ORM-I & ORM-II	XII: Complex number, Function & Inverse Trigonometric Function, Limits (rationalization, factorization, standard limits). XI : Straight Line, conic section, Sequence & Series.	3
6	MCT-3	JEE (Main)	26-08-18 (Sunday)	30-08-18 (Thursday)	04-09-18 (Tuesday)	06-09-18 (Thursday)	Centre of mass, RBD, Fluid mechanics, Elasticity and viscosity, Surface tension, Geometrical optics, Electrostatics Gravitation, Measurement and error, Current electricity, Heat transfer, Capacitance, EMF, EMI	Electrochemistry, Metallurgy, Solid State Qualitative Analysis (Only Anion), N & O Family(N2, NH3, Oxides of Nitrogen, HNO3), Chemical Equilibrium	MPT-2 + Grignard Reagent, ORM-I, ORM-II, Reduction, Oxidation & Hydrolysis	XII: MCT-2 (XII Syllabus), Function & LCD XI: Conic Section, Sequence & Series	3
7	MCT-4 & BPT-2	JEE (Main) + Board	23-09-18 (Sunday)	27-09-18 (Thursday)	02-10-18 (Tuesday)	04-10-18 (Thursday)	MPT3 + Geometrical Optics, EMF, EMI, AC,	MCT-3 (Mains) : MCT-1 + Electrochemistry, Metallurgy , Qualitative Analysis (Only anion), p-Block (13-16 group), Equivalent concept & titrations BPT-2 : Solution & Colligative Properties, Coordination Compound, solid state, Electrochemistry , Metallurgy, p-Block (15-16 group)	GOC-II, All Above & Reduction, Oxidation & Hydrolysis, ORM-III & ORM-IV BPT-2: ORM-I, ORM-II, ABC-1, 2, 3 & 4	XII: MCT-3 (XII Syllabus) & Method of Differentiation, Application of Derivatives (Upto Monotonicity), XI: Straight Line, Circle, Quadratic Equation Board Syllabus : ITF, Limits, Continuity, & Derivability, Method of Differentiation, Application of Derivatives (Upto Monotonicity in an interval)	6
8	MPT-4	JEE (Main)	21-10-18 (Sunday)	25-10-18 (Thursday)	30-10-18 (Tuesday)	01-11-18 (Thursday)	Current Electricity, Capacitance, EMF, EMI, AC, Modern Physics, Nuclear Physics	Metallurgy, Qualitative analysis (Only anion), N & O family, Equivalent concept, Halogen and Nobel gases, Chemical Kinetics(Up to 2nd order reaction)	ORM-II, Reduction, Oxidation & Hydrolysis, ORM-III, ORM-IV, Aromatic Compound (upto Chemical reaction of amines)	XII : Limits & Continuity & Derivability , Matrices & Determinants, Application of Derivatives, Indefinite Integration (standred formula, substitution, intengeden by parts) XI : Straight Line, Circle, Quadratic Equation.	3
9	MPT-5	JEE (Main)	02-12-18 (Sunday)	06-12-18 (Thursday)	11-12-18 (Tuesday)	13-12-18 (Thursday)	Full Syallabus XII	Chemical Kinetics, Surface Chemistry, Halogen and Nobel gases, Qualitative Analysis (up to 2nd and 3rd group)	Aromatic Compound, Carbonyl Compounds	XII: Indefinite Integration, Definite Integration & Its Application XI: Straight Line, Circle, Conic section	3
10	Mock-BPT	Board (Maths)	22-12-18 (Saturday)	26-12-18 (Wednesday)	31-12-18 (Monday)	02-01-19 (Wednesday)				XII full syllabus	2
11	MT (Mains)	JEE (Main)	23-12-18 (Sunday)	27-12-18 (Thursday)	01-01-19 (Tuesday)	03-01-19 (Thursday)	XII full syllabus	XII full syllabus	XII full syllabus	XII full syllabus	3
12	Mock-BPT	Board (Physics)	25-12-18 (Tuesday)	29-12-18 (Saturday)	03-01-19 (Thursday)	06-01-19 (Saturday)	XII full syllabus				2
13	Mock-BPT	Board (Chemistry)	26-12-18 (Wednesday)	31-12-18 (Monday)	04-01-19 (Friday)	07-01-19 (Monday)		XII Full syllabus	XII full syllabus		2
14	AIOT (Mains)	JEE (Main)	27-01-19 (Sunday)	31-01-19 (Thursday)	05-02-19 (Tuesday)	07-02-19 (Thursday)	XI + XII full syllabus	XI + XII Full Syllabus	XI + XII Full Syllabus	XI + XII full syllabus	3
15	AIOT (Mains)	JEE (Main)	10-02-19 (Sunday)	14-02-19 (Thursday)	19-02-19 (Tuesday)	21-02-19 (Thursday)	XI full syllabus	XI Full syllabus	XI full syllabus	XI full syllabus	3
16	JPT-1	JEE (Main)	10-03-19 (Sunday)	14-03-19 (Thursday)	19-03-19 (Tuesday)	21-03-19 (Thursday)	XI + XII full syllabus	XI + XII Full Syllabus	XI + XII Full Syllabus	XI + XII full syllabus	3
17	JPT-2	JEE (Main)	17-03-19 (Sunday)	21-03-19 (Thursday)	26-03-19 (Tuesday)	28-03-19 (Thursday)	XI + XII full syllabus	XI + XII Full Syllabus	XI + XII Full Syllabus	XI + XII full syllabus	3
										Total Testing Hours	**54**

Note: 1. Students are advised to refer their notice board for test timings 2. Their will be no classes on the preceding saturday before every PTs/ CTs (except BPTs).
3. Student can submit their request for re-evaluation in two working days after first display of result.

RESONANCE BOARD WORKSHEET (RBW) SCHEDULE

PHYSICS

Week No.	RBW Dist. Date	RBW No.
W-05	30-04-2018	1
W-09	28-05-2018	2
W-13	25-06-2018	3
W-19	06-08-2018	4
W-25	17-09-2018	5
TOTAL RBWs		5

CHEMISTRY

Week No.	RBW Dist. Date	RBW No.
W-11	16-06-2018	1
W-23	08-09-2018	2
W-31	29-10-2018	3
TOTAL RBWs		3

MATHEMATICS

Week No.	RBW Dist. Date	RBW No.
W-4	23-04-2018	1
W-9	28-05-2018	2
W-13	25-06-2018	3
W-17	23-07-2018	4
W-23	03-09-2018	5
W-30	22-10-2018	6
W-36	03-12-2018	7
TOTAL RBWs		7

Discussion Schedule of Daily Practice Problems (DPPs):

S. No.	Week No.	DPP No.				No. of DPPs
		P	C		M	
			P/I	O		
1	Week-1	1, 2	1	0	1, 2	5
2	Week-2	3,4,5	2, 3	1	3,4,5	9
3	Week-3	6,7,8	4	2	6,7,8	8
4	Week-4	9,10,11	5, 6	3	9,10,11	9
5	Week-5	12, 13	7, 8	4	12, 13	7
6	Week-6	14,15,16	9	5	14,15,16	8
7	Week-7	17,18,19	10, 11	6	17,18,19	9
8	Week-8	20,21,22	12, 13	7	20,21,22	9
9	Week-9	23, 24	14	8	23, 24	6
10	Week-10	25,26,27	15, 16	9	25,26,27	9
11	Week-11	28,29,30	17, 18	10	28,29,30	9
12	Week-12	31,32,33	19, 20	11	31,32,33	9
13	Week-13	34, 35	21	12	34, 35	6
14	Week-14	36,37,38	22, 23	0	36,37,38	8
15	Week-15	39,40,41	24, 25	13	39,40,41	9
16	Week-16	42, 43	26	14	42, 43	6
17	Week-17	44,45,46	27	15	44,45,46	8
18	Week-18	47,48,49	28, 29	16	47,48,49	9
19	Week-19	1, 2	1	17	1, 2	6
20	Week-20	3, 4	2	18	3, 4	6
21	Week-21	5, 6, 7	3, 4	19	5, 6, 7	9
22	Week-22	8, 9	5	20	8, 9	6
23	Week-23	10,11,12	6, 7	1	10,11,12	9
24	Week-24	13,14,15	8	2	13,14,15	8
25	Week-25	16,17,18	9, 10	3	16,17,18	9
26	Week-26	19, 20	11	4	19, 20	6
27	Week-27	0	0	0	0	0
28	Week-28	21,22,23	12	5	21,22,23	8
29	Week-29	24,25,26	13	6	24,25,26	8
30	Week-30	27, 28	14	7	27, 28	6
31	Week-31	29,30,31	15	8	29,30,31	8
32	Week-32	Diwali Vacations				
33	Week-33	0	0	0	0	0
34	Week-34	32,33,34	16, 17	9	32,33,34	9
35	Week-35	35,36,37	18	10	35,36,37	8
36	Week-36	38, 39	19	11	38, 39	6
37	Week-37	40,41,42	20	12	40,41,42	8
38	Week-38	0	0	13	0	1
Total Number of DPPs						230

P: Physics | C (P): Chemistry (Physical) | C (I/O): Chemistry (Inorganic/Organic) | M: Mathematics

Resonance Eduventures Ltd.

JEE-MAIN 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 | **Website:** www.resonance.ac.in

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