

ACADEMIC SESSION 2018-19 : COURSE PLANNING

Course Program Name - XII ABHILASHA

Course Code - RDJEE

Course Duration - 900 Hrs

TARGET EXAM - JEE MAIN / ADVANCED / KVPY / SCRA / CBSE Board Exam

Course Commencement : 07.03.2018

Subject - Physics

S.No	No. of week	Week Duration	No. of Classes	Topic(s) Name (No. of Lectures)	Sub-topic(s) Name (No. of Lectures)
1	W1	07.03.2018 To 10.03.2018	4	Electric charges & field	1.Introduction of charge & their basic properties 2.Coulombs law & force between multiple charges 3.Electric field & their properties
2	W2	12.03.2018 To 17.03.2018	6	Electric charges & field	1.Electric field due to multiple charges & continuous charge 2.Electric flux 3. Gauss law
3	W3	19.03.2018 To 24.03.2018	6	Electric charges & field	1.Application of Gauss law 2. Electric Dipole 3. Allen Sheet Discussion
4	W4	26.03.2018 To 31.03.2018	6	Electrostatic potential, capacitors	1. NCERT Question Discussion of Electric charges & field 2.Electric potential energy
5	W5	02.04.2018 To 07.04.2018	6	Electrostatic potential, capacitors	1.Electric potential due to point charges 2.Electric potential due to continuous charge body 3.Electric potential due to dipole
6	W6	09.04.2018 To 14.04.2018	6	Electrostatic potential, capacitors	1.Allen sheet discussion 2.Capacitance due to parallel plate capacitor 3.Different types of capacitor & their capacitance 4.Combination of capacitor & their properties
7	W7	16.04.2018 To	6	Electrostatic potential, capacitors	1.Allen sheet discussion 2.NCERT Question discussion
8	W8	23.04.2018 To 28.04.2018	6	Electric current	1.Basics of electric current 2.combination of resistance & their properties 3. Kirchhoff's law
9	W9	30.04.2018 To 05.05.2018	6	Electric current	1. Problems based on Kirchhoff's law 2. Cell & their combination 3. Wheat stone bridge
10	W10	07.05.2018 To 12.05.2018	6	Electric current	1. Potentiometer 2. Ammeter 3. Voltmeter 4. Allen sheet discussion

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11	W11	14.05.2018 To 19.05.2018	6	Moving charge & Magnetism	1. NCERT Question Discussion of electric current 2. Moving charge & magnetism 3. Introduction of Magnetic force
12	W12	21.05.2018 To 03.06.2018			Summer Vacation
13	W13	04.06.2018 To 09.06.2018	6	Moving charge & Magnetism	1. Magnetic force between a point charge 2. Motion of the charge particle
14	W14	11.06.2018 To 16.06.2018	6	Moving charge & Magnetism	1. Magnetic field due to point charge 2. Magnetic field due to continuous charge 3. Magnetic force between two current carrying conductor
15	W15	18.06.2018 to 23.06.2018	6	Moving charge & Magnetism	1. Torque on current carrying loop 2. Allent sheet discussion 3. NCERT Question discussion
16	W16	25.06.2018 to 30.06.2018	6	Magnetism & matter	1. Introduction of bar magnet 2. Force between two bar magnet 3. Magnetic field due to bar magnet
17	W17	02.07.2018 to 07.07.2018	6	Magnetism & matter	1. Torque experienced by bar magnet 2. Earth magnetism
18	W18	09.07.2018 to 14.07.2018	6	Magnetism & matter	1. Magnetization & magnetic intensity 2. Magnetic properties of materials 3. Permanent magnet & Electro magnet
19	W19	16.07.2018 to 21.07.2018	6	Magnetism & matter	1. Allent sheet & NCERT Question discussion
20	W20	23.07.2018 to 28.07.2018	6	Electro magnetic Induction	1. Introduction of magnetic flux 2. Introduction of Faraday's law
21	W21	30.07.2018 to 04.08.2018	6	Electro magnetic Induction	1. Lenz law & conservation of energy 2. Motional EMF 3. Eddy current
22	W22	06.08.2018 to 11.08.2018	6	Electro magnetic Induction	1. AC Generator 2. Inductance 3. RL circuit
23	W23	13.08.2018 to	6	Electro magnetic Induction	1. Allent sheet & NCERT Question discussion INDEPENDENT DAY

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24	W24	20.08.2018 to 25.08.2018	6	Alternating Current	1. Introduction of AC 2. Phaser diagram
25	W25	27.08.2018 to 01.09.2018	6	Alternating Current	1. Resonance of RLC circute 2. Transformer
26	W26	03.09.2018 to 08.09.2018	6	Alternating Current	1. Allan sheet & NCERT Question disscussion 2. EMW
27	W27	10.09.2018 to 15.09.2018	6	Ray Optics	1. Introduction of point object & image 2. Law of reflection 3. Plane mirror 4. Curve mirror
28	W28	17.09.2018 to 22.09.2018	6	Ray Optics	1. Law of refraction 2. Refraction through plane surface
29	W29	24.09.2018 to 29.09.2018	6	Ray Optics	1.Refraction through curve surface 2. Introduction of lens
30	W30	01.10.2018 to	6	Ray Optics	1. Combination of lens & their formulas 2. Application of lenses
31	W31	08.10.2018 to 13.10.2018	6	Ray Optics	1. Optical instrument 2. Allan sheet & NCERT Question disscussion
32	W32	15.10.2018 to 20.10.2018 19 OCT VIJAYDASHMI	6	Wave Optics	1. Introduction of wave optics 2. Interference VIJAYDASHMI
33	W33	22.10.2018 to 27.10.2018	6	Wave Optics	1. Interference due to multiple type of sorses
34	W34	29.10.2018 to 03.11.2018	6	Wave Optics	1. Polarization 2. Diffraction
35	W35	04.11.2018 to 11.11.2018 07 NOV DEEPAWALI			Diwali

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36	W36	12.11.2018 to 17.11.2018	6	Wave Optics	1. Allen sheet & NCERT Question disscussion
37	W37	19.11.2018 to 24.11.2018	6	Dual Nature of Matter & Wave	1. Introduction of dual nature of matter & wave 2. Photoelectric effect 3. Allen sheet & NCERT Question disscussion
38	W38	26.11.2018 to 01.12.2018	6	Atom & Nucler	1. Different types of model of atom 2. Nuclear & Radio Activity 3. Allen sheet & NCERT Question disscussion
39	W39	03.12.2018 to 08.12.2018		Semiconductors & Communications	1. PN junction 2. Transistor 3. Electronics 4. Communications
40	W40	10.12.2018 to 15.12.2018			
41	W41	17.12.2018 to 22.12.2018			
42	W42	24.12.2018 to 29.12.2018 25 DEC CHRISTMAS			CHRISTMAS
43	W43	02.01.2019 to 05.01.2019			
44	W44	07.01.2019 to 12.01.2019			