

1st Term : 18 August 2015-27 December 2015 (80 Working days)				
Week No	Duration/ Dates	No of W. Days	Contents	Practical Experiments
1	18 Aug 2015 To 21 Aug 2015	04	Chapter 12: Electrostatics Coulomb's Law, Fields of Force, Electric Field Lines, Applications of Electrostatics, Electric Flux. (Contd)	Introduction
2	24 Aug 2015 To 28 Aug 2015	05	Chapter 12: Electrostatics Electric Flux through a Surface Enclosing a Charge, Gauss's Law and its Applications, Electric Potential, Electron Volt, Comparison Between Electric & Gravitational Forces. (Contd)	1. To Find the Resistance of a Wire by Slide wire Bridge.
3	31 Aug 2015 To 04 Sep 2015	05	Chapter 12: Electrostatics Millikan's Experiment, Capacitor and its Capacitance, Electric Polarization, Energy Stored in a Capacitor, Charging and Discharging of a Capacitor, Short Qs, Problems.	2. To Find the Resistance of a Galvanometer by Half Deflection Method.
4	07 Sep 2015 To 11 Sep 2015	05	Chapter 13: Current Electricity Electric Current, Sources of Current, Effects of Current, Ohm's Law, Resistivity and its Dependence upon Temperature, Colour Codes for Carbon Resistors. (Contd.)	3. To Find the Resistance of Voltmeter by Drawing a Graph Between R and 1/V
5	14 Sep 2015 To 18 Sep 2015	05	Chapter 13: Current Electricity Electrical Power, Electromotive Force and Potential Difference, Kirchhoff's Rules, Wheatstone Bridge, Potentiometer. (Contd.)	4. To Determine the Resistance of a Voltmeter without Graph.
6	21 Sep 2015 To 25 Sep 2015 [EidulAzha]	02	Chapter 13: Current Electricity Short Qs, Problems.	Revision of Experiments
7	28 Sep 2015 To 02 Oct 2015	05	1st Bimonthly Test	
8	05 Oct 2015 To 09 Oct 2015	05	Chapter 14: Electromagnetism Magnetic Field due to Current in a Long straight Wire, Force on a Current Carrying Conductor in a Magnetic Field, Magnetic Flux and Flux Density, Ampere's Law and Determination of Flux Density, Force on a Moving Charge in a Magnetic Field. (Contd.)	5. To Determine the Internal Resistance of a Cell Using a Potentiometer.

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9	12 Oct 2015 To 16 Oct 2015	05	<u>Chapter 14: Electromagnetism</u> Lorentz Force, Determination of e/m for an Electron, CRO, Torque on a Current Carrying Coil, Galvanometer, Ammeter. (Contd.)	6. To Determine the emf of a Cell by Using a Potentiometer
10	19 Oct 2015 To 23 Oct 2015 [Ashura]	03	<u>Chapter 14: Electromagnetism</u> Voltmeter, Ohmmeter, AVO meter, Short Qs, Problems.	7. To Study the Relation Between the Current Passing through Tungsten Filament Lamp and Potential Applied across it.
11	26 Oct 2015 To 30 Oct 2015	05	<u>Chapter 15: Electromagnetic Induction</u> Induced EMF and Induced Current, Motional EMF, Faraday's Law, Lenz's Law, Mutual Induction, Self Induction.(Contd)	8. To Study the Charging and Discharging of a Capacitor and to Measure its Time Constant.
12	02 Nov 2015 To 06 Nov 2015	05	<u>Chapter 15: Electromagnetic Induction</u> Energy Stored in an Inductor, AC Generator, DC Generator, Back Motor Effect in Generators, DC Motor, Back EMF Effect in Motors, Transformer.(Contd)	9. To Study the Relation Between Current & Capacitance in an AC Circuit.
13	09 Nov 2015 To 13 Nov 2015 [Iqbal Day]	04	<u>Chapter 15: Electromagnetic Induction</u> Short Qs, Problems.	10. To Study the Characteristics of Semiconductor Diode and to Calculate the Forward and Reverse Resistance.
14	16 Nov 2015 To 20 Nov 2015	05	<u>Chapter 16: Alternating Current</u> Alternating Current, AC Circuits, AC Through a Resistor, a capacitor, and an Inductor, Impedance.(Contd)	11. To Study the Characteristics of NPN Transistor
15	23 Nov 2015 To 27 Nov 2015	05	<u>Chapter 16: Alternating Current</u> RL and RC Circuits, Power in AC Circuits, Series and Parallel Resonance Circuits, Three Phase AC Supply, Metal Detectors, Choke.(Contd)	12. To Study the Variation of Electric Current with the Intensity of Light Using a Photocell.
16	30 Nov 2015 To 04 Dec 2015	05	<u>Chapter 16: Alternating Current</u> Electromagnetic Waves, Principles of Generation, Transmission, and Reception of Electromagnetic Waves, Modulation, Short Qs, Problems.	13. To Determine the Value of High Resistance by Using Neon Flash Lamp

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17	07 Dec 2015 To 11 Dec 2015	05	<u>1st Term Exams (Send – Up Exams)</u>	
18	14 Dec 2015 To 18 Dec 2015	02	<u>1st Term Exams (Send – Up Exams)/All Pakistan Prize Distribution Ceremony of Co-curricular Activities</u>	
19	21 Dec 2015 To 25 Dec 2015	-	<u>Winter Vacation</u>	
<u>2nd Term: 28 December 2015-12 April 2016 (75 Working Days)</u>				
20	28 Dec 2015 To 01 Jan 2016	05	<u>Chapter 17: Physics of Solids</u> Classification of Solids, Mechanical Properties of Solids, Electrical Properties of Solids. (Contd)	14. To Verify the Truth Tables for the Logic Gates.
21	04 Jan 2016 To 08 Jan 2016	05	<u>Chapter 17: Physics of Solids</u> Superconductors, Magnetic Properties of Solids, Short Qs, Problems.	15. To Make Burglar Alarm Using a NAND Gate.
22	11 Jan 2016 To 15 Jan 2016	05	<u>Chapter 18: Electronics</u> PN Junction and its Characteristics, Rectification, Specially Designed PN Junctions, Transistors, Transistor as an Amplifier and as a Switch, Operational Amplifier. (Contd)	16. To Make Fire Alarm by Using NOT Gate.
23	18 Jan 2016 To 22 Jan 2016	05	<u>Chapter 18: Electronics</u> OP AMP as Inverting and Non Inverting Amplifier, OP AMP as a Comparator, Comparator as a Night Switch, Digital Systems, Logic Gates and their Applications, Short Qs, Problems.	Revision of Experiments
24	25 Jan 2016 To 29 Jan 2016	05	<u>Chapter 19: Dawn of Modern Physics</u> Relative Motion, Frames of Reference, Special Theory of Relativity, Black Body Radiation, Photoelectric Effect. (Contd.)	Revision of Experiments
25	01 Feb 2016 To 05 Feb 2016 [Kashmir Day]	04	<u>Chapter 19: Dawn of Modern Physics</u> Compton Effect, Pair Production, Annihilation of Matter, Wave Nature of Particles, Davisson and Germer Experiment, Wave Particle Duality. (Contd.)	Revision of Experiments
26	08 Feb 2016 To 12 Feb 2016	05	<u>2nd Bimonthly Test</u>	

Week No	Duration/ Dates	No of W. Days	Contents	Practical Experiments
27	15 Feb 2016 To 19 Feb 2016	05	Chapter 19: Dawn of Modern Physics Electron Microscope, Uncertainty Principle, Short Qs, Problems.	Revision of Experiments
28	22 Feb 2016 To 26 Feb 2016	05	Chapter 20: Atomic Spectra Atomic Spectra, Bohr's Model of the Hydrogen Atom, Quantized Radii, Quantized Energies, Hydrogen Emission Spectrum, Inner Shell Transitions and Characteristic X- Rays, Production of X- Rays. (Contd.)	1 st Test of Test Series
29	29 Feb 2016 To 04 Mar 2016	05	Chapter 20: Atomic Spectra Continuous X-Rays, Properties and Uses of X-Rays, CAT Scans, Uncertainty within the Atom, Laser, Short Qs, Problems.	2 nd Test of Test Series
30	07 Mar 2016 To 11 Mar 2016	05	Chapter 21: Nuclear Physics Atomic Nucleus, Isotopes, Mass Defect and Binding Energy, Radioactivity, Half Life, Interaction of Radiation with Matter. (Contd.)	3 rd Test of Test Series
31	14 Mar 2016 To 18 Mar 2016	05	Chapter 21: Nuclear Physics Radiation Detectors, Nuclear Reactions, Nuclear Fission, Fusion Reaction, Radiation Exposure, Biological Effects of Radiation. (Contd.)	4 th Test of Test Series
32	21 Mar 2016 To 25 Mar 2016 [Pakistan Day]	04	Chapter 21: Nuclear Physics Biological and Medical Uses of Radiation, Basic Forces of Nature, Building Blocks of Matter, Short Qs, Problems.	5 th Test of Test Series
33	28 Mar 2016 To 01 Apr 2016	05	<u>Pre-Board Examination</u>	
34	04 Apr 2016 To 08 Apr 2016	05	<u>Pre-Board Examination</u>	
35	11 Apr 2016 To 15 Apr 2016	02	<u>Pre-Board Examination/ Prep Leave</u>	