

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 1: Measurements Introduction, Physical Quantities, SI Units, Errors & Uncertainties, Significant Figures. (Contd)	Introduction
2	24 Aug 2015 To 28 Aug 2015	05	Chapter 1: Measurements Precision & Accuracy, Assessment of Total Uncertainty, Dimensions of Physical Quantities, Short Qs, Problems.	1. To Find the Volume of a Cylinder using a Vernier Callipers.
3	31 Aug 2015 To 04 Sep 2015	05	Chapter 2: Vectors and Equilibrium Basic Concepts of Vectors, Rectangular Coordinate System, Addition and Subtraction of Vectors, Resultant Vector, Scalar Multiplication, Unit Vector, Null Vector, Equal Vector, Rectangular Components, Position Vector, Vector Addition by Rectangular Components. (Contd)	2. To Find the Area of Cross Section of a Wire using Micrometer Screw Gauge
4	07 Sep 2015 To 11 Sep 2015	05	Chapter 2: Vectors and Equilibrium Product of Two Vectors, Scalar Product, Vector Product, Torque, Equilibrium of Forces and 1 st Condition of Equilibrium, Equilibrium of Torques and 2 nd Condition of Equilibrium. (Contd)	3. To verify the 2 nd Condition of Equilibrium using a Suspended Meter Rod.
5	14 Sep 2015 To 18 Sep 2015	05	Chapter 2: Vectors and Equilibrium Short Qs, Problems.	4. To Find the Unknown Weight of a Body by Vector Addition Method.
6	21 Sep 2015 To 25 Sep 2015 [EidulAzha]	02	Chapter 3: Motion and Force Displacement, Velocity, Acceleration, Velocity Time Graph. (Contd)	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 3: Motion and Force Review of Equations of Motion, Newton's Laws of Motion, Momentum, Elastic and Inelastic Collisions, Force due to Water Flow, Momentum and Explosive Forces, Rocket Propulsion. (Contd)	5. To Determine the Value of 'g' by Free Fall Method.

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9	12 Oct 2015 To 16 Oct 2015	05	Chapter 3: Motion and Force Projectile Motion, Height of Projectile, Time of Flight, Range of Projectile, Short Qs, Problems.	6. To Find the Volume of a Small Sphere using Micrometer Screw Gauge
10	19 Oct 2015 To 23 Oct 2015 [Ashura]	03	Chapter 4: Work and Energy Work Done by a Constant Force, and a Variable Force, Work Done by the Gravitational Field. (Contd)	7. To verify the various Relations for a Simple Pendulum (1 st Part).
11	26 Oct 2015 To 30 Oct 2015	05	Chapter 4: Work and Energy Power its Units and Relation with Velocity, Energy and its Types, Work Energy Principle, Absolute Gravitational Potential Energy, Escape Velocity, Inter Conversion of Potential Energy and kinetic Energy, Conservation of Energy, Non – Conventional Sources of Energy, Short Qs, Problems.	8. To verify the various Relations for a Simple Pendulum (2 nd Part).
12	02 Nov 2015 To 06 Nov 2015	05	Chapter 5: Circular Motion Angular Displacement, Angular Velocity, Angular Acceleration, Relation with Linear Quantities, Centripetal Force, Moment of Inertia. (Contd)	9. To verify the various Relations for a Simple Pendulum (3 rd Part).
13	09 Nov 2015 To 13 Nov 2015 [Iqbal Day]	04	Chapter 5: Circular Motion Angular Momentum, Law of Conservation of Angular Momentum, Rotational Kinetic Energy, Artificial Satellites, Real and Apparent Weight. (Contd)	10. To find the value of 'g' by an Oscillating Mass Spring System.
14	16 Nov 2015 To 20 Nov 2015	05	Chapter 5: Circular Motion State of Weightlessness, Orbital Velocity, Artificial Gravity, Geostationary Orbits, Newton's And Einstein's Views of Gravitation, Short Qs, Problems.	11. To Determine the Laws of Vibrations of a Stretched String using a Sonometer.
15	23 Nov 2015 To 27 Nov 2015	05	Chapter 6: Fluid Dynamics Viscous Drag and Stokes Law, Terminal Velocity, Fluid Flow, Equation of Continuity.	12. To Determine the Frequency of A.C. by Melde's Apparatus.
16	30 Nov 2015 To 04 Dec 2015	05	Chapter 6: Fluid Dynamics Bernoulli's Equation and its Applications, Short Qs, Problems.	13. To Determine the Wavelength of Sound in Air and to Calculate the Speed of Sound in Air by End Correction Method.

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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 7: Oscillations</u> Simple Harmonic Motion, Simple Harmonic Motion and Uniform Circular Motion, Phase, A Horizontal Mass Spring System. (Contd)	14. To Determine the Wavelength of Sound in Air and to Calculate the Speed of Sound in Air by Two Resonance Positions.
21	04 Jan 2016 To 08 Jan 2016	05	<u>Chapter 7: Oscillations</u> Simple Pendulum, Energy Conservation in SHM, Free and Forced Oscillations, Resonance, Damped Oscillation, Sharpness of Resonance, Short Qs, and Problems.	15. To Determine the Focal Length of a Convex Lens by Displacement Method.
22	11 Jan 2016 To 15 Jan 2016	05	<u>Chapter 8: Waves</u> Progressive Waves, Periodic Waves, Speed of Sound in Air, Effects of Various parameters on Speed of Sound in a Gas, Superposition Principle. (Contd)	16. To Find the Refractive Index of a Prism by Critical Angle Method.
23	18 Jan 2016 To 22 Jan 2016	05	<u>Chapter 8: Waves</u> Interference, Beats, Reflection of Waves, Stationary Waves in Stretched Strings and Air Columns. (Contd)	17. To Find the Refractive Index of a Liquid by using a Concave Mirror.
24	25 Jan 2016 To 29 Jan 2016	05	<u>Chapter 8: Waves</u> Doppler's Effect and its Applications, Short Qs, Problems.	18. Setting up a Telescope and Determination of its Magnifying Power.
25	01 Feb 2016 To 05 Feb 2016 [Kashmir Day]	04	<u>Chapter 9: Physical Optics</u> Wavefronts, Huygens Principle, Interference of Light, Young's Double Slit Experiment, Interference in Thin Films, Newton's Rings, Interferometer. (Contd.)	19. To Determine the Focal Length of a Concave Lens using a Convex Lens.
26	08 Feb 2016 To 12 Feb 2016	05	<u>2nd Bimonthly Test</u>	

Week No	Duration/ Dates	No of W. Ds	Contents	Practical Experiments
27	15 Feb 2016 To 19 Feb 2016	05	Chapter 9: Physical Optics Diffraction of Light, Diffraction Due to a Narrow Slit, Diffraction Grating, Diffraction of X Rays by Crystals, Polarization, Short Qs, Problems.	Revision of Experiments
28	22 Feb 2016 To 26 Feb 2016	05	Chapter 10: Optical Instruments Least Distance of Distinct Vision, Magnifying Power and Resolving Power of Optical Instruments, Simple Microscope, Compound Microscope, Astronomical Telescope, Spectrometer	1 st Test of Test Series
29	29 Feb 2016 To 04 Mar 2016	05	Chapter 10: Optical Instruments Speed of Light, Fiber Optics, Fiber Optics Principles, Types of Optical Fibers, Signal Transmission, Power Losses, Short Qs, Problems.	2 nd Test of Test Series
30	07 Mar 2016 To 11 Mar 2016	05	Chapter 11: Heat & Thermodynamics Kinetic Theory of Gases, Pressure of Gas, Interpretation of Temperature, Gas Laws, Internal Energy, Work and Heat, First law of Thermodynamics. (Contd)	3 rd Test of Test Series
31	14 Mar 2016 To 18 Mar 2016	05	Chapter 11: Heat & Thermodynamics Molar Specific Heats, Reversible and Irreversible Processes, Heat Engine, Second Law of Thermodynamics, Carnot Engine and Carnot Theorem, Thermodynamic Scale of Temperature,	4 th Test of Test Series
32	21 Mar 2016 To 25 Mar 2016 [Pakistan Day]	04	Chapter 11: Heat & Thermodynamics Petrol and Diesel Engine, Entropy, 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>	