**AIR FORCE SCHOOL, BAMRAULI**

 **Monthly Split-Up Syllabus 2017-2018**

**Class: XI Subject: Physics**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Month**  | **Name** **of the book**  | **Topic/ Sub topic** | **No. of periods required**  | **No. of working days** |
| June | NCERT | Mathematical tools, Physical World, fundamental forces, Units and measurement, Fundamental quantities, Parallax method  | 8 | 8 |
| JULY | NCERT | Dimension and its application, Numerical, Unit and Measurement, Average speed, graph, Equation of motion, relative motion, Numerical | 24 | 25 |
| AUG | NCERT | Motion in a plane, Vector addition and multiplication, Projectile Motion, Laws of Motion, Conservation of momentum, numerical | 24 | 25 |
| SEP | NCERT | Work ,Work energy theorem, Power, Energy Conservation, Numerical, Rotational Motion, Moment of inertia, theorem, Motion on an inclined plane, M.I of different body, Numerical | 17 | 20 |
| OCT | NCERT | Gravitation, Kepler law of planetary motion, acceleration due to gravity, Orbital Velocity, Escape Velocity, Gravitational potential energy, Numerical, Elasticity, hooks’ law, Young’s modulus, bulks modulus, modulus of rigidity, numerical | 16 | 20 |
| NOV | NCERT | Pascal’s law, Hydrostatics Paradox, Stokes law, Viscosity, Numerical | 24 | 24 |
| DEC | NCERT | Thermal Properties, Specific heat capacity, heat capacity, Molar heat capacity, Kinetic theory of Gases, Law of equipartition of energy, kinetic interpretation of gases, Numerical | 16 | 17 |
| JAN | NCERT | Thermodynamics,1st and 2st law of thermodynamics, heat engine, Carnot engine, Waves and Oscillation, S.H.M ,Simple Pendulum, PPW ,Stationary Wave, Nodes and Antinodes, Numerical | 17 | 15 |
| FEB |  | REVISION | 17 | 23 |