**AIR FORCE SCHOOL, BAMRAULI**

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

**Class: XII Subject: Physics**

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| **Month**  | **Name** **of the book**  | **Topic/ Sub topic** | **No. of periods required**  | **No. of working days** |
| April | NCERT | Electric Charge, Coulombs Law, Electric Field, electric dipole,Numericals | 15 | 22 |
| April | NCERT | Electric Potential, Electric Potential Energy, Equipotential Surface, Electrostatics of conductor, Dielectric and Polarization, Capacitors, combination of capacitors | 12 | - |
| May | NCERT | Energy stored in capacitor, Van De Graph Generator, numerical ,Electriccurrent,Ohm,s law  | 6 | 9 |
| June | NCERT | Driftvelocity,Resistivity,Energy, power Combination of resistors-series and parrallel Wheat stone bridge,metre bridgePotentiometer,Numericals | 8 | 8 |
| JULY | NCERT | Moving charge ,Biot savart law, Application of biot savart law, cyclotron,M C G,Ammeterand voltmeter,Numericals,Magnetism,Dia,Para,Ferro,earth magnetism,EMI,self induction,mutual induction,Numericals | 24 | 25 |
| AUG | NCERT | A.C,L.C.R circuit, Resonance, AC generator and transformer, Electromagnetic Wave, Electromagnetic Spectrum, Reflection of light, Refraction of light, Lens Maker Formula, Optical instrument, Numerical | 24 | 25 |
| SEP | NCERT | Wave Optics,Hygens Theory, Polarization, Brewster’s Law, Malus Law, Dual Nature of Radiation, DE Broglie Equation, Bohr’s Model Hydrogen Spectrum, numerical | 16 | 20 |
| OCT | NCERT | Nuclear energy, Mass defect, Fission, fusion, Semiconductor, diode, rectifier, BJT, Logic gate, Numerical  | 16 | 20 |
| NOV |  | Communication system, Modulation and Demodulation, Modulation index, Amplitude Modulation, Frequency modulation, Numerical  | 16 | 24 |
| DEC |  | Revision& CBSE Sample paper | 17 | 17 |
| JAN |  | Revision& CBSE Sample paper | 17 | 15 |