# MEDICAL ASPIRANTS SYLLABUS

# (BATCH 2022-23)

**PHYSICS**

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| **11th** | **12th** |
| Motion in a Straight Line (excluded-Position time  graph, Speed & Velocity) | Electric Charge and Fields (excluded- Uniformly  charged thin spherical shell) |
| Motion in a Plane | Electrostatic Potential and Capacitor |
| Law of Motions ( Newton’s 2nd Law, Momentum & Friction) | Current Electricity (excluded- carbon resistor & colour code, series & parallel combination) |
| Work, Power and Energy | Moving Charges and Magnetism (excluded- cyclotron) |
| Thermodynamics (excluded- heat engine & refrigerator) | Electromagnetic Induction |
| Simple Harmonic Motion | Alternating Current (excluded- power factor & wattles current) |
|  | Ray optics (refraction through curved surfaces, Lens & Lens maker formula) |

**CHEMISTRY**

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| **11th** | **12th** |
| Some Basic Concepts of Chemistry | Solid State (exclude- electrical & magnetic properties ,  semiconductor part) |
| Structure of Atom (excluded- Thomson’s & Rutherford’s Model) | Solution (exclude- abnormal molar mass, Van’t Hoff factor) |
| Classification of Elements and Periodicity | Electrochemistry (exclude- types of cell & law of electrolysis) |
| Chemical Bonding | Chemical Kinetics (exclude- concept of collision theory, activation energy & Arrhenius equation) |
| Gaseous State (exclude- liquefaction of gases, Kinetic energy & Molecular Speed) | The P-Block (exclude- preparation & properties of phosphine, sulphuric acid, oxides of nitrogen, phosphorous, halides & Oxo acids) |
| Basic Concepts of Organics Chemistry (exclude- methods of purification & quantitative analysis) | Coordination compounds (exclude- structure & stereoisomerism) |
|  | Haloalkanes and Haloarenes ( exclude- uses of all compounds) |
|  | Alcohol, Phenol and Ether (exclude- uses with reference to methanol & ethanol) |

**BOTANY & ZOOLOGY (For NEET Aspirants only)**

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| **11th BOTANY** | **12th BOTANY** |
| Cell Cycle and Cell Division | Reproduction In Organism |
| Photosynthesis In Higher Plants | Principles Of Inheritance & Variations |
| Morphology of flowering Plants | Molecular Basis Of Inheritance |
| Anatomy of Flowering Plants | Biodiversity & Conservation |
| The Living World |  |
| Biological Classification |  |
| Plant Kingdom |  |
| **11th ZOOLOGY** | **12th ZOOLOGY** |
| Animal Kingdom | Human Reproduction |
| Structural Organisation in Animals | Evolution |
| Digestion and Absorption | Human Health & Disease |
| Excretory Products and their Elimination | Biotechnology-Principle & Process |
| Neural Control and Coordination | Biotechnology & its Application |
| Chemical Coordination and Integration |  |