

*Based on New Four Year Syllabus*

*A Textbook of*  
**Practical Physics**  
*For B.Sc. 1<sup>st</sup> & 2<sup>nd</sup> Year*



*Bishnu Prasad Paudel*

*Dharma Raj Panthi*

# Bsc Physics Practical

**SJ Ball**

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Hemne,2000-10 FOR B SC STUDENTS OF ALL INDIAN UNIVERSITIES      **Physics Practicals: Part-III** ,      **Physics for B.Sc. Students: Semester III (Theory | Practical) (Electromagnetic Theory & Modern Optics) (NEP-UP)** P S Hemne & C L Arora, This textbook has been designed to meet the needs of B Sc Third Semester students of Physics as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020 Maintaining the traditional approach to the subject this textbook comprehensively covers both the parts of the theory papers namely Electromagnetic Theory and Modern Optics as well as the Practical Paper The theory part includes important theoretical topics such as Electrostatics Magnetostatics Time Varying Electromagnetic Fields Electromagnetic Waves Interference Diffraction Polarisation and Lasers are aptly discussed to give a complete overview of Electromagnetic Theory Modern Optics The practical part covers experiments which are on Carey Foster bridge Earth inductor deflection and vibration magnetometer study of variation of magnetic field along the axis of a single and double coil Ballistic galvanometer based experiments to determine high resistance low resistance self inductance and comparison of capacitances are explained in detail      **B. Sc. Practical Physics** C. L. Arora,1970      **Bsc. Practical Physics** Singh Hamam,1980      Physics for B.Sc. Students Semester III MJCPHY-3, MJCPHY-4, & MICPHY-3 : Thermal Physics & Thermodynamics | Electricity & Magnetism - NEP 2020 Bihar P S Hemne & C L Arora, This textbook has been designed to meet the needs of B Sc Third Semester students of Physics as per Common Minimum Syllabus prescribed for Patna University and other Universities and Colleges under the recommended National Education Policy 2020 in Bihar The book extensively covers important aspects of the modern day course curriculum such as classical quantum and statistical based solutions to the most complicated problems in physics of micro dimensional size The book comprised of two theory papers Thermal Physics Thermodynamics and Electricity Magnetism The theory part starts with Maxwell Boltzmann Energy Distribution Law for an ideal gas followed by Degrees of Freedom Law of Equipartition of Energy Molecular Collisions Mean Free Path Transport Phenomenon Subject further progresses to explain the Brownian Motion and Rectilinear Flow of Heat Vander Waal s Equation for Real Gases Jools Thomson Effect Zeroth First Second Third Laws of Thermodynamics Concept of Entropy and Thermodynamic Potentials along with nine laboratory experiments are incorporated pertaining to this paper The paper Electricity and Magnetism covers important topics such as Electrostatics Dielectric Properties of Matter Magnetism Electromagnetic Damping Electromagnetic Induction and Electrical Circuits along with fourteen Laboratory experiments are incorporated pertaining to this paper Also oral questions are incorporated at the end of each experiment which are usually asked in Practical examination This textbook has been designed to meet the needs of B Sc Third Semester students of Physics as per Common Minimum Syllabus prescribed for Patna University and other Universities and Colleges under the

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