BASIC

# 102 - Fundamentals of Electricity & Magnetism

This course introduces foundational principles of electricity and magnetism. Students will study electric charge, current, voltage, resistance, and power, as well as magnetic fields, and electromagnetic induction. A key component of this course is an introduction to DC circuit analysis, including Ohm’s Law, series and parallel circuits, and Kirchhoff’s Laws. The course lays a technical foundation for future studies in AC systems. Through a combination of conceptual theory and problem-solving, students will gain a basic understanding of circuit analysis and electromagnetism.