

DEPARTMENT OF PHYSICS

2022 Scheme

Course Code	BPHYC102/202 – APPLIED PHYSICS FOR CV STREAM
CO1	To understand the types of oscillation, shock waves & its generation, and applications.
CO2	To Study the elastic properties of materials and failures of engineering materials
CO3	To Study the acoustics buildings and the essentials of radiometry and photometry.
CO4	To understand the principles photonic devices and their application relevant to civil engineering.
CO5	To understand the various natural disaster and safety.
Course Code	BPHYS102/202 – APPLIED PHYSICS FOR CSE STREAM
CO1	Describe the principles of LASERS and Optical fibers and their relevant applications.
CO2	Discuss the basic principles of the Quantum Mechanics and its application in Quantum Computing.
CO3	Summarize the essential properties of superconductors and its applications in qubits.
CO4	Illustrate the application of physics in design and data analysis.
CO5	Practice working in groups to conduct experiments in physics and perform precise and honest measurements.
Course Code	BPHYE102/202 - APPLIED PHYSICS FOR EEE STREAM
CO1	Describe the fundamental principles of the Quantum Mechanics and the essentials of Photonics.
CO2	Elucidate the concepts of conductors, dielectrics and superconductivity.
CO3	Discuss the fundamentals of vector calculus and their applications in Maxwell's Equations and EM Waves.
CO4	Summarize the properties of semiconductors and the working principles of semiconductor devices.
CO5	Practice working in groups to conduct experiments in physics and Perform precise and honest
Course Code	BPHYM102/202 - APPLIED PHYSICS FOR ME STREAM
CO1	Elucidate the concepts in oscillations, waves, elasticity and material failures.
CO2	Discuss the fundamentals of Thermoelectric materials and their application
CO3	Summarize the low temperature phenomena and generation of low temperature.
CO4	Explain the various material characterization techniques.
CO5	Practice working in groups to conduct experiments in physics and perform precise and honest measurements.