

DEPARTMENT OF PHYSICS

2018 Scheme

Course Code	18PHY12/22 – ENGINEERING PHYSICS
CO1	Understand various types of oscillations and their implications, the role of Shockwaves in various fields and Recognize the elastic properties of materials for engineering applications
CO2	Realize the interrelation between time varying electric field and magnetic fieldthe transverse nature of the EM waves and their role in optical fiber communication
CO3	Compute Eigen values Eigen function, momentum of Atomic and subatomic particles using Time independent 1-D Schrodinger's wave equation
CO4	Apprehend theoretical background of laser, construction and working of different types of laser and its applications in different fields
CO5	Understand various electrical and thermal properties of materials like conductors, semiconductors and dielectrics using different theoretical models
Course Code	18PHYL16/26 – ENGINEERING PHYSICS LABORATORY
CO1	Apprehend the concepts of interference of light, diffraction of light, Fermienergy and magnetic effect of current
CO2	Understand the principles of operations of optical fibers and semiconductor devices such as Photodiode and NPN transistor using simple circuits
CO3	Determine elastic moduli and moment of inertia of given materials with the help of suggested procedures
CO4	Recognize the resonance concept its practical applications
CO5	Understand the importance of measurement procedure, honest recording and representing the data, reproduction of final results