S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Marks		
								Sessional	Final Exam	Total
5	BSC-112	Engineering Physics Lab	BSC	1	0	0	2	50	-	50

Course Outcomes:

	At the end of the course the student will be able to
CO1	Apply the concepts of magnetic field to understand the working of electrical vibrators and Faraday"s laws.
CO2	Relate the phase variation between current and voltage through inductor, capacitor and resistor in LCR series and parallel circuits.
CO3	Analyze the working of diodes and transistors in different configurations.
CO4	Measure and analyze the intensity variation of light due to interference, diffraction and polarization.
CO5	Examine the basic operation of laser, solar cell and its application i.e. Planck"s constant.

List of Activities for Engineering Physics Lab

S. No.	Activities
1	To measure the frequency of A.C. mains using an electrical vibrator.
2	To analyze the variation of EMF with respect to velocity of magnet to verify Faraday"s laws.
3	To measure the impedance of LCR circuit.
4	To verify and plot the V-I characteristics of a PN junction diode.
5	To observe the common base/ common emitter characteristics of PNP/NPN transistors.
6	To verify Zener diode characteristics.
7	To determine the dispersive power of a given prism using a spectrometer.
8	To compute the wavelength of monochromatic light using Newton's rings apparatus.
9	To determine the wavelength of sodium light using a plane transmission grating.
10	To determine the specific rotation of sugar/glucose using Laurent's Half shade polarimeter.
11	To evaluate the value of Planck"s constant using a photo-cell.
12	To examine the characteristics of a Solar cell.
13	To determine the wavelength of a He-Ne laser.