Course Code	Course Title	L	T	P	C
BPHY302P	Physics Lab	0	0	2	1
Pre-requisite		Syllabus version			
		1.0			

Course Objectives

1. To provide an opportunity to the students to do hands-on experiments in different field of Physics.

Course Outcomes

1. Understand the concept of optics.
2. Measure the electrical properties of semiconductors.
3. Analyse the properties of materials.

Indicative Experiments

1.	Wavelength of sodium light using Newton's Rings
2.	Refractive index of a liquid-hollow prism-spectrometer
3.	Determination of polarization in sugar solution using polarimeter
4.	Measurement of Hall voltage using Hall effect setup
5.	Four probe method – Bandgap determination of semiconductor
6	ESR Spectrometer – Lande g factor
7.	Crystallite size determination using XRD
8.	Torsional pendulum – Rigidity modulus determination
9.	Black Body Radiation – Verification of Wien's law
10..	Verification of Wiedemann Franz law
	Total Laboratory Hours | **30 hours**

Text Book(s)

1.	G.L. Squires, Practical Physics, 2015, 4th Edition, Cambridge University Press.

Reference Books

1.	Michael Nelson and Jon M. Ogborn, Advanced level Physics Practicals, 4th Edition, reprinted 1985, Heinemann Educational Publishers.

Mode of assessment: Continuous assessment, Oral examination, FAT

Recommended by Board of Studies	20-06-2023		
Approved by Academic Council	No. 70	Date	24-06-2023