

Course No.	Course Title	Teaching Schedule			Allotment of Marks			Duration of Exam (Hrs.)
		L	T	P	Theory	Sessional	Total	
AS-101N	Applied Physics I	4	1	0	75	25	100	3
Course Outcomes (CO)								
CO-1	To understand the different phenomenon of light.							
CO-2	To understand applications of optics using basic fundamentals of physics.							
CO-3	To understand Laser, its different components and applications in engineering.							
CO-4	To study basic concepts of optical fiber and its applications							
CO-5	To study Ultrasonic wave and its applications in industry, medical and in technology.							
CO-6	To introduce basics of theory of relativity and to study nuclear radiations and their detection							

Course No.	Course Title	Teaching Schedule			Allotment of Marks			Duration of Exam (Hrs.)
		L	T	P	Theory	Sessional	Total	
AS-102N	Applied Physics II	4	1	0	75	25	100	3
Course Outcomes (CO)								
CO-1	To introduce basic terminology of crystal structure and to discuss defects and structure of solids.							
CO-2	To understand wave-particle duality and to study significance and applications of uncertainty principle.							
CO-3	To discuss classical free electron theory and its applications.							
CO-4	To understand the basics of band theory of solids and to study Hall Effect.							
CO-5	To understand basics and applications of Superconductivity.							
CO-6	To introduce basics of Nanomaterials and their applications.							

Course No.	Course Title	Teaching Schedule			Allotment of Marks			Duration of Exam (Hrs.)
		L	T	P	Practical	Sessional	Total	
AS-107N	Applied Physics Lab I	0	0	2	30	20	50	3
Course Outcomes (CO)								
CO-1	To make the students familiar with the experiments related with optics.							
CO-2	To give the knowledge of handling of the instruments related with resistance using different methods.							
CO-3	To give the knowledge of A.C. mains frequency.							

Course No.	Course Title	Teaching Schedule			Allotment of Marks			Duration of Exam (Hrs.)
		L	T	P	Practical	Sessional	Total	
AS-106N	Applied Physics Lab II	0	0	2	30	20	50	3
Course Outcomes (CO)								
CO-1	To introduce the experiments related with the solid state physics.							
CO-2	To give knowledge of working of photoelectric cell.							
CO-3	To understand V – I characteristics of p-n diode.							
CO-4	To understand Hall effects.							