

Claas	Course	Course objective
SEM III	PHY 301: Thermodynamics and Kinetic theory of gases	1. To impart knowledge of basic concepts in Thermodynamics and kinetic theory of gases. 2. To provide the knowledge and methodology necessary for solving problems in Physics. The course also involves the related experiments based on the theory.
	PHY 302 (A): Electronics –I	1. To impart knowledge of basic concepts in Electronics. 2. To provide the knowledge and methodology necessary for solving problems in Physics. 3. The course also involves the related experiments based on the theory.
	PHY 303: Lab III General Physics I	1. To develop hands - on skills for measuring electrical quantities. 2. Able to acquire, record and interpret data accurately. Students learn to calibrate instruments to ensure measurement accuracy and reliability. 3. Students interpret instruments specification such as sensitivity, resolution range and error. 4. Student gain Practical knowledge to determine the coefficient of thermal conductivity by Lees method, Searle's method & Forbes method. 5. Students familiarized with optics science by determining refractive index dispersive powers of the material by performing different experiment. 6. Students can verify various digital electronic theorems.
	PHY 304: Skill Enhancement Course I (SEC-I)	• The aim of this course is not just to impart theoretical knowledge to the students but to provide them with exposure and hands-on learning wherever possible.
S.Y.B.Sc.		

SEM IV	PHY 401: Waves, Oscillations and Acoustics	1. Waves and Sound. 2. To provide the knowledge and methodology necessary for solving problems in Physics. The course also involves the related experiments based on the theory
	PHY 402: Optics and LASERS	1. To impart knowledge of basic concepts in Optics and LASERS. 2. To provide the knowledge and methodology necessary for solving problems in Physics. The course also involves the related experiments based on the theory.
	PHY 403: Lab IV - General Physics II	1. To develop hands-on skills for measuring electrical quantities. 2. Able to acquire, record and interpret data accurately. Students learn to calibrate instruments to ensure measurement accuracy and reliability. 3. Students interpret instruments specification such as sensitivity, resolution range and error. 4. Understanding experimental technique :- Students learned how to setup & use laboratory equipment's such as CRO & Spectrometers. Students gain knowledge of standard experimental methods such as error analysis, calibration and data recording. Students conducted basic experiments in optics and waves & oscillations (examples- Newton's ring experiment, double pendulum experiment, polarimeter experiment, log decrement, Kundt's tube and LASER experiment, Lissajous figure experiment).
	PHY 404: Skill Enhancement Course II	• The aim of this course is to enable the students to design and troubleshoot the electrical circuits, networks and appliances through hands-on mode.