

## Course Outcome

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PH1CRT01: METHODOLOGY AND PERSPECTIVES OF PHYSICS	This course will be an introduction to the pursuit of Physics, its history and methodology. The course also aims at emphasizing the importance of measurement which is central to physics.
PH2CRT02: MECHANICS AND PROPERTIES OF MATTER	This course would empower the student to acquire engineering skills and practical knowledge, which help the student in their everyday life. This syllabus will cater the basic requirements for their higher studies. This course will provide a theoretical basis for doing experiments in related areas.
PH3CRT03: OPTICS, LASER AND FIBER OPTICS	This course aims to provide necessary foundation in optics and photonics which prepare the students for an intensive study of advanced topics at a later stage.
PH4CRT04: SEMICONDUCTOR PHYSICS	We are living in a wonder world of Electronics. To know the physical principles and applications of Electronics is most necessary for a Physics student. This course is intended to provide this know-how.
PH5CRT05: ELECTRICITY AND ELECTRODYNAMICS	Electricity and Electrodynamics have the key role in the development of modern technological world. Without electric power and communication facilities, life on earth stands still. A course in electricity and electrodynamics is thus an essential component of physics programme at graduate level. This course is expected to provide a sound foundation in electricity and electrodynamics.
PH5CRT06: CLASSICAL AND QUANTUM MECHANICS	This course is a prelude to advanced theoretical studies in Condensed Matter Physics, Spectroscopy, Astrophysics, Electrodynamics and Nuclear Physics.
PH5CRT07: DIGITAL ELECTRONICS AND PROGRAMMING	This course is expected to provide necessary back ground for applications of electronics in mathematical computation. This course also gives an insight to computer software and aims to develop programming and coding skills by familiarising the features of C++.
PH5CRT08: ENVIRONMENTAL PHYSICS AND HUMAN RIGHTS	This course is designed according to UGC Directions to create an awareness of environmental science and environmental studies. This course also intends to give an insight about Human rights and duties.
PH5OPT02-Physics in Daily Life	This course helps students acquire and understand the physics involved in the daily activities and equip them to apply physics and differentiate it from pseudo physics.
PH6CRT09: THERMAL AND STATISTICAL PHYSICS	This course is to develop a working knowledge of statistical mechanic and to use this knowledge to explore various applications related to topics in material science and the physics of condensed matter.
PH6CRT10: RELATIVITY AND SPECTROSCOPY	This course is intended to introduce principles of spectroscopy and special theory of relativity.
PH6CRT11: NUCLEAR, PARTICLE PHYSICS AND ASTROPHYSICS	This course intended to explore the interior of nucleus and interaction between nucleons. It also helps the students to comprehend the Cosmos and its origin and to develop scientific aptitude.
PH6CRT12: SOLID STATE PHYSICS	This course is intended to provide an introduction to the physics of Condensed Matter. This study attempts to explain various types of phenomena like electro-magnetic properties, super-conductivity and super fluidity.
PH6CBT05: Astronomy and Astrophysics	A good introduction to the basics of astronomy and astrophysics will be given in the course. It is expected that some of the students will opt for this specialization for their post graduation.