Course Outcome

Course	
PH1CRT01 - Methodology and Perspectives of Physics	CO-1. Introduction to the pursuit of Physics, its history and methodology. CO-2 To emphasizing the importance of measurement which is central to physics. CO-3. To understand the vector concepts and its Applications, Physical significance CO-4.Know the Cartesian, spherical polar and cylindrical coordinate systems CO-4. To understanding and Manipulating Skill of Number Systems.
Semester 2. **PH2CRT02 - Mechanics and Properties of Matter**	CO-1. To empower the student to acquire engineering skills and practical knowledge, which help the student in their everyday life. CO-2. To cater the basic requirements for their higher studies. This course will provide a theoretical basis for doing experiments in related areas. CO-3 To Understand Basic mechanics, reasoning power, initiative skills and calculus
Semester 3 **PH3CRT03 – Optics, Laser and Fibre Optics**	Co-1 To provide necessary foundation in optics and photonics which prepare the students for an intensive study of advanced topics at a later stage.

	CO-2 To understand Concepts of waves, basics in Mathematics.
Semester 4 **PH4CRT04- Semiconductor Physics**	CO-1 wonder world of Electronics. To know the physical principles and applications of Electronics is most necessary for a Physics student. CO-2. Intended to provide this know-how. CO-3**.** To aware the basic knowledge of semiconductors, circuit fundamentals, current laws, network theorems, passive elements etc. is a must for the deeper understanding of the topics
Semester 5 **PH5CRT05 – Electricity and Electrodynamics**	CO-1. Ability to understand 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. CO-2. Students can Aware of the essential component of physics programme at graduate level. CO-3. To provide a sound foundation in electricity and electrodynamics. CO-4.To knowledge of Vector analysis, Vector calculus and fundamentals of electricity and magnetism.
PH5CRT06 – Classical and Quantum Mechanics	CO-1. To provide the advanced theoretical studies in Condensed Matter Physics, Spectroscopy, Astrophysics, Electrodynamics and Nuclear Physics. CO-2. Student should have essential knowledge of Algebra, Calculus and Newtonian Mechanics.

PH5CRT07 –Digital Electronics and Programming	CO-1. To provide necessary back ground for applications of electronics in mathematical computation. CO-2. To Develop the Basic knowledge of electronics and Mathematics
PH5CRT08 – Environmental Physics and Human Rights	CO-1. Environmental Education encourages students to research, investigate how and why things happen, and make their own decisions about complex environmental issues by developing and enhancing critical and creative thinking skills. It helps to foster a new generation of informed consumers, workers, as well as policy or decision makers. CO-2. Environmental Education helps students to understand how their decisions and actions affect the environment, builds knowledge and skills necessary to address complex environmental issues, as well as ways we can take action to keep our environment healthy and sustainable for the future. It encourages character building, and develops positive attitudes and values. CO-3.To develop the sense of awareness among the students about the environment and its various problems and to help the students in realizing the inter-relationship between man and environment and helps to protect the nature and natural resources.
PH5OPT0X* -Physics In everyday Life	
Semester 6 **PH6CRT09-** **Thermal and Statistical Physics**	CO-1. 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. CO-2. To develop the Basics of calculus and quantum mechanics.

PH6CRT10 --Relativity and Spectroscopy	CO-1. To introduce principles of spectroscopy and special theory of relativity. CO-2. To understand the a Special theory of relativity CO-3. To Understand the Spectroscopy both molecular and Atomic Spectroscopy and Its Applications
PH6CRT11 – Nuclear, Particle and Astrophysics	CO-1. To intended to explore the interior of nucleus and interaction between nucleons CO-2. To develop the Basic mathematics and quantum mechanics
PH6CRT12- Solid State Physics	CO-1. 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. CO-2. To Provide Basics of Mathematics, quantum mechanics
PH6CBT0X –Computational Physics	CO-1.To intended to give an insight to computer hardware and computer applications. CO-2. To develop the Basic mathematics and electronics