Department of Physics, Govt. Degree College, R. S. Pura	
COURSE OUTCOMES: B.Sc. Ist, 3rd and 5th Semester	
Semester/ Papers/ Course Content	**The Course Outcomes(Cos)**
This paper shall enable the students to understand:	
First Semester, (CORE COURSE) **Title of Paper: Mechanics, Oscillations and Relativity** Number of Units: 5 Course Content: Unit -1 Mechanics I Unit -2: Mechanics II Unit -3: Oscillations I Unit -4: Oscillations II Unit -5: Theory of Relativity	**Unit 1:** Basics of Coordinate systems **Unit 2:** Applications of Coordinate systems, **Unit 3:** Basics of Oscillations and understanding of S.H.M. **Unit 4:** Mathematical and Physical understanding of Damped and Forced oscillatory motion. **Unit 5:** Conceptual understanding of relativistic motion
Third Semester, (CORE COURSE) **Title of Paper: Electronics, Thermodynamics and Statistical Mechanics** Number of Units: 5 Course Content: Unit -1 Electronics I Unit -2: Electronics II Unit -3: Thermodynamics I Unit -4: Thermodynamics II Unit -5: Statistical Mechanics	**Unit 1:** Basics of semiconductors, Diodes **Unit 2:** Uses of semiconductors in electronic devices and understanding of their behaviour **Unit 3:** Basic concepts of thermodynamics **Unit4:** Understanding of thermodynamical concepts in experimental physics **Unit 5:** Basic concepts of Statistics and their utility in understanding the experimental observations in daily life.

Fifth Semester, (CORE COURSE) **Title of Paper: Modern Physics** Number of Units: 5 Course Content: Unit -1 Quantum Mechanics I Unit -2: Quantum Mechanics II Unit -3: Atomic Physics Unit -4: Nuclear Physics I Unit -5: Nuclear Physics II	**Unit I:** Concept of change of physical approach with the change of domain. For e.g., Macroscopic to microscopic, non relativistic to relativistic. **Unit 2:** Mathematical development of quantum physics and its applications **Unit 3:** Understanding the atomic scale behaviour of sub atomic particles and their affects **Unit 4:** Understanding of Nuclear properties **Unit 5:** Experimental utility of nuclear properties and composition of nuclear particles.