

# CHAITANYA DEGREE & PG COLLEGE FOR WOMEN

**PROGRAMME NAME: B.Sc( Maths, Physics, Computer Science )**

## PROGRAM OUTCOMES

**PO 1: Knowledge:** Able to Apply the knowledge of Physical . Computer Science and Mathematics for the attainment of solutions to the problems that come across in our day-to-day activities.

**PO 2: Critical thinking skills:** to develop an ability to apply, analyze, recognize and evaluate inferential skills and distinguish logical assumption from different perspectives that allowmaking decisions on the basis of experiential evidence

**PO 3: Problem Solving:**Identify and analyze the problem and formulate solutions by using the principles of mathematics and able to analyze and interpret concepts from a variety of methods to analogous situations.

**PO 4: Computer skills :**Become technology-oriented with the knowledge and ability to develop creative solutions, and better understand the effects of future developments of computer systems and technology on people and society as a whole.

**PO 5: Communication :**Able to Communicate the fundamental and advanced concepts of concerned disciplines in written and oral form and able to make effective use of information technology relevant to the discipline.

**PO 6: Ethics:** Students develop ethical values and contribute to nation building as responsible citizens.

**PO 7: Social interaction and sustainability:** Students develop empathy towards the societal needs and are able to contribute sustainable development and gain knowledge and skill to understand and solve environmental issues and problems.

**PO 8: Understanding of career prospects:** Able to develop an understanding of Higher Education in the relevant discipline , research and other areas of entrepreneurship or preparing for relevant competitive examinations leading to employment.

**PO 9: Leadership and Entrepreneur Skill Development:** Able to function as an individual, and as a member or leader in a team and in multidisciplinary setup to become an entrepreneur by acquiring technical, communicative, problem solving and specialized skills.

## PROGRAM SPECIFIC OUTCOMES

**PSO 1:** Understand the concepts of computer languages, networks, communication systems, microprocessors and micro controllers, algorithms, Networking, cloud and Big Data.

**PSO 2:** Understand the contributions of the scientific community and to develop research aptitude and scientific temper

**PSO 3:** Effectively utilizing the knowledge of computing principles and Mathematics theory to develop sustainable solutions to current and future computing problems and also knowledge of general Physics like sound, wave mechanics, friction, forces and laws of motion and use of mathematics and also create interest towards the area of research.

**PSO 4:** Analyse the concepts of mathematics, physics and computers science able to relate them in numerical programming of models of physical systems.

**PSO 5:** Interpret the inferences from verbal, mathematical and graphical data. Acquire skills to solve both theoretical and experimental scientific problems

**PSO 6:** Ability to interlink the skills developed and acquires an aptitude to address the problems in simulations of material properties, web and mobile app development.