

# CHAITANYA DEGREE & PG COLLEGE FOR WOMEN

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

## PROGRAM OUTCOMES

**PO 1: Knowledge:** Able to Apply the knowledge of statistics, 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 allow making 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 vector spaces, group theory, probability, distributions, sampling techniques, algorithm design, data base design and web design.

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

**PSO 3:** Acquire the skills to use various sampling techniques, statistical inference, data analysis in MS-Excel, implementation of numerical algorithms by using various programming languages

**PSO 4:** Analyse the concepts of mathematics, statistics and computers science able to use them in algorithm design and data science

**PSO 5:** Ability to interlink the skills developed and acquires an aptitude to address the problems in web and mobile app development.

**PSO 6:** Effectively utilizing the knowledge of computing principles and Mathematics theory to develop sustainable solutions to current and future computing problems.