

CHAITANYA DEGREE & PG COLLEGE FOR WOMEN
DEPARTMENT OF COMPUTER SCIENCE

PROGRAMME NAME: M.Sc COMPUTER SCIENCE

PROGRAMME OUTCOMES:

- PO1. Scientific knowledge:** Apply the knowledge of mathematics, science, and computing to the solution of complex scientific problems.
- PO2. Problem analysis:** Identify, formulate, research literature, and analyze complex scientific problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and applied sciences.
- PO3. Design/development of solutions:** Design solutions for complex problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5. Modern tools usage:** Create, select, and apply appropriate techniques, resources, and modern computing and IT tools including prediction and modeling to complex scientific activities with an understanding of the limitations.
- PO6. The software engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional practice.
- PO7. Environment and sustainability:** Understand the impact of the professional software engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the scientific practice.
- PO9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10. Communication:** Communicate effectively on complex activities with the scientific community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11. Project management:** Demonstrate knowledge understanding of the scientific and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

PROGRAMME SPECIFIC OUTCOMES

After completing M.Sc. Computer Science Program students will be able to:

- PSO 1:** Enrich the knowledge in the areas like Artificial Intelligence, Web Services, Cloud Computing, Paradigm of Programming language, Design and Analysis of Algorithms, Database Technologies Advanced Operating System, Mobile Technologies, Software Project Management and core computing subjects.
- PSO 2:** Students understand all dimensions of the concepts of software application and projects.
- PSO 3:** Students understand the computer subjects with demonstration of all programming and theoretical concepts with the use of ICT.
- PSO 4:** Developed in-house applications in terms of projects.
- PSO 5:** Interact with IT experts & knowledge by IT visits.
- PSO 6:** Get industrial exposure through the 6 months Industrial Internship in IT industry.
- PSO 7:** To make them employable according to current demand of IT Industry and responsible citizen.
- PSO 8:** Aware them to publish their work in reputed journals.