COMPUTER SCIENCE & ENGINEERING DEPARTMENT

GITA AUTONOMOUS COLLEGE, BHUBANESWAR

Affiliated to BPUT, Odisha

Vision

To be a recognized leader by imparting quality technical education, training and research and there by facilitating the extensive research environment, equipping students with latest skills in the field of technology supplemented with practical orientation to face challenges in the fast morphing modern computing industry and academia for the betterment of the society

Mission

Mission No.	Mission Statements
M1	To produce best quality computer science and IT professionals and researchers by providing state-of-the-art training, hands on experience and healthy research environment.
M2	To collaborate with industry and academia around the globe for achieving quality technical education and excellence in research through active participation of all the stakeholders.
M3	To promote academic growth by establishing Centre of Excellences and offering inter-disciplinary postgraduate and doctoral programs.
M4	To establish and maintain an effective operational environment and deliver quality, prompt cost effective and reliable technology services to the society as well as compliment the local and global economic goals.

Program Educational Objectives (PEOs)

PEO No.	Program Educational Objectives Statements
PEO1	The graduates will utilize their expertise in engineering to solve industrial and technological problems.
PEO2	Graduates will be innovators and professionals in technology deployment and system implementation.
PEO3	Graduates will function in their profession with social awareness and responsibilities.
PEO4	Graduates will interact with their peers in industry and society as engineering professionals and leaders.
PEO5	Graduates will succeed in achieving innovative skills in the field of research and computer application.

Program Specific Outcomes (PSOs)

PSO 1: The graduates will have the ability to design, develop and innovate software product or process in a systematic way by applying algorithm design, artificial intelligence, soft computing and programming skills.

PSO 2: The graduate will have the ability to take up higher studies, collaborative research and entrepreneurship in the modern computing environment.

PSO3: Graduate will have the ability to achieve additional expertise through add-on programs in machine learning, deep learning, IoT etc and lifelong learning.

List of Program Outcomes(POs)

PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and Computer Science & Engineering to the solution of complex engineering problems.

PO2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3. Design/development of solutions: Design solutions for complex engineering 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 tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6. The 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 engineering practice.

PO7. Environment and sustainability: Understand the impact of the professional 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 engineering 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 engineering activities with the Engineering community and with 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 and finance: Demonstrate knowledge and understanding of the engineering 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.