

LEARNING ESSENTIALS



Department of Information Technology

JIS College of Engineering, Kalyani

NAAC 'A' Accredited Autonomous Institution



B.Tech
Information Technology
JISCE, Kalyani

To create technical manpower of global standards with capabilities of accepting new challenges in the field of Information Technology to serve the society.

Vision

Mission

M1: To make our students technically advanced and ethically strong to endow with cost effective solution for the fast evolving field of Information Technology.

M2: To instill a value-based, socially engaged professionalism for the holistic development of students and society.

M3: To provide all possible support to promote students in the field of research and development and persuade them to become successful entrepreneur.

- ◆ To prepare students to excel in graduate school or technical career through a world-class, rigorous and competitive program in the field of Information Technology.
- ◆ To train students across the spectrum of basic and applied science, recognizing and exploiting common descriptions in disparate systems.
- ◆ To train students with sufficient scientific and Information Technology breadth to design and create novel solutions to real-life problems in computing domain.
- ◆ To develop students professional and ethical attitudes, effective communication and teamwork skills, and an ability to place science and computational issues and solutions within the broader societal context.
- ◆ To provide students with an academic environment committed to excellence and innovation that contributes for developing role ready individual with leadership, professionalism and life-long learning for professional careers in the field of Information Technology

- A Engineering knowledge:** Graduates will be able to apply the basic knowledge in Mathematics, Science and Engineering fundamentals in the domain of Information Technology.
- B Problem analysis:** Graduates will demonstrate the ability to design, develop and test systems corresponding to real life problems under consideration including the physical models, interpret and analyze data, and report results and use experimental results for further expansion.
- C Design/development of solutions:** Graduates will demonstrate the ability to design a digital system or a computational system or a process that meets demand driven specifications and requirements in Information Technology and research areas.
- D Conduct investigations of complex problem:** Graduates will have the ability to identify, formulate and solve service oriented architectural problems
- E Modern tool usage:** Graduates will be familiar with state-of-the-art software tools and to analyze relevant engineering problems.
- F The engineer and society:** Graduates will be broadly educated and will have an understanding of the impact of engineering on society and demonstrate awareness of contemporary and emergent issues.
- G Environment and sustainability:** Graduates will have the confidence to apply engineering solutions in global and societal contexts.
- H Ethics:** Graduates will demonstrate an understanding of their professional and ethical responsibilities.
- I Team work:** Graduates will foster team spirit and elevate the enthusiasm in teamwork-concept of sharing in demonstrating their ability in technological solution as a part of specialized engineering and science laboratory teams, as well as on multidisciplinary design teams.
- J Communication:** Graduates will be able to communicate effectively in both verbal and written forms.
- K Project Management and Finance:** Understand the engineering and management principles and apply these to one's own work as a member and leader of a team to manage projects and in multidisciplinary environment.
- L Life-long learning:** Graduates should be capable of self-learning and clearly understand the value of lifelong learning.

- 1.** Graduates will be able to apply basic engineering knowledge to understand and analyze basic-complex problems in the field of Information Technology.
- 2.** Graduates will be able to provide optimized solutions for organizations and individuals through Information Technology specific skills.
- 3.** Graduates will be able to work in a group to manage projects and human resources in the field of Information Technology.
- 4.** Graduates will be able to contribute in the research and development field of Information Technology through the lifelong learning to serve the society and nation.