



# Department of Computer Science & Engineering

## Birla Institute of Technology, Mesra, Ranchi - 835215 (India)

### M.Tech Computer Science and Engineering

#### Programme Educational Objectives (PEOs)

**PEO1:** Students are trained in such a way that makes them capable of exploiting and enhancing theoretical and practical knowledge in various domains of Computer Science.

**PEO2:** Students are imparted with strong base of knowledge that makes them suitable for both industry teaching and research.

**PEO3:** Students are trained to develop practical and efficient solutions to the challenges in the growing field of software industry to gain leadership positions in their organization and/or teams.

**PEO4:** Students are inculcated with the sensitivity towards ethics, public policies and their responsibilities towards the society to gain trust and respect of others as ethical team members.

#### PROGRAM OUTCOMES (POs)

**PO1:** An ability to independently carry out research /investigation and development work to solve practical problems.

**PO2:** An ability to write and present a substantial technical report/document.

**PO3:** Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program.

**PO4:** In depth understanding of fundamental principles and concepts of various domains of Computer Science.

**PO5:** Ability for analytical and critical thinking in order to analyse, design and improve existing tools and techniques.

**PO6:** Knowledge of contemporary issues in the field of Computer Science and ability to engage in lifelong learning.

### **PROGRAM SPECIFIC OUTCOMES (PSOs)**

On successfully completing the program a graduate shall

**PSO 1:** Possess ability to assimilate an in depth understanding of fundamental principles and concepts of various domains of Computer Science, communication, networking, and other relevant areas.

**PSO 2:** Have the ability for analytical and critical thinking for real world problems, design using their technical knowledge and improve existing tools and techniques.

**PSO 3:** Gain knowledge of contemporary issues in the field of Computer Science and acquire the ability to engage in lifelong learning.