SRM VALLIAMMAI ENGINEERING COLLEGE

Approved by AICTE | Affiliated to Anna university | Accredited by NBA
'A' Grade Accreditation by NACC | ISO 9001: 2015 Certified
[An Autonomous Institution]
SRM Nagar, Kattankulathur - 603 203

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VISION:

To devise captivating, fascinating and unique practices of teaching that discovers the trained talent and inherent competences of young minds to evolve as humane professional Computer Science Engineers.

MISSION:

- To provide students with challenging ventures, contributing to the betterment of their selfdom to compete with international talents.
- To act as a motivational hub to exhibit practical knowledge with the latest technological updates and research publications.
- To render ample knowledge to exhibit their ubiquitous talents for the social prosperity and promote industry-institute harmony to upgrade the standards for the international reputation.

PROGRAMME EDUCATIONAL OBJECTIVES (PEO's):

PEO1: To mould students to exhibit top performance in the higher education and research and to become the State of-the-art technocrat.

PEO2: To impart the necessary background in Computer Science and Engineering by providing solid foundation in Mathematical, Science and Engineering fundamentals.

PEO3: To equip the students with the breadth of Computer Science and Engineering innovate novel solutions for the benefit of common man.

PEO4: To groom the students to be multifaceted entrepreneurs with professional ethical attitude in broader social perspective.

PEO5: To provide an ambience learning environment that is conducive for the growth of successful professional career of students.

PROGRAM SPECIFIC OUTCOMES (PSO's):

PSO1: Exhibit proficiency in planning, implementing and evaluating team oriented-software Programming solutions to specific business problems and society needs.

PSO2: Demonstrate professional skills in applying programming skills, competency and decision making capability through hands-on experiences.

PSO3: Apply logical thinking in analyzing complex real world problems, and use professional and ethical behaviors to provide proper solutions to those problems.

PSO4: Demonstrate the ability to work effectively as part of a team in applying technology to business and personal situations

PROGRAMME OUTCOMES (PO's):

Engineering Graduates will be able to:

PO 1: Engineering knowledge:
Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2: Problem analysis:
Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using the first principles of mathematics, natural sciences, and engineering sciences.

PO 3: Design/development of solutions:
Design solutions for the 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.

PO 4: Conduct investigations of complex problems:
Use research-based knowledge and research methods including the design of experiments, analysis and interpretation of data, and the synthesis of the information to provide valid conclusions.

PO 5: Modern tool usage:
Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6: 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.

PO 7: 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.

PO 8: Ethics:
Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: Individual and team work:
Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: 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.

PO 11: 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.

PO 12: 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.