NPR
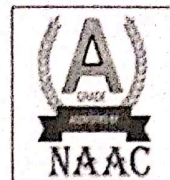## COLLEGE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)

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NPR Nagar, Natham - 624 401, Dindigul Dist, Tamil Nadu. Ph: 04544 - 246500, 501, 502.

NAAC

Reach the Star

Program Name: B.E. Computer Science and Engineering

Department Vision

> ➤ To produce globally competent technical professionals for digitized society.

Department Mission

> ➤ To establish conducive academic environment by imparting quality education and value-added training
> ➤ To encourage students to develop innovative projects to optimally resolve the challenging social Problem.

Program Educational Objectives

Graduates of Computer Science and Engineering Program will be able to

> ➤ **PEO1**: Develop into the most knowledgeable professional to pursue higher education and Research or have a successful carrier in industries.
>
> ➤ **PEO2**: Successfully carry forward domain knowledge in computing and allied areas to solve complex and real world engineering Problems.
>
> ➤ **PEO3**: Meet the technological revolution they are continuously upgraded with the technical knowledge.
>
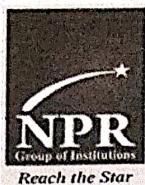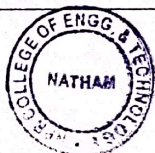> ➤ **PEO4**: Serve the humanity with social responsibility combined with ethics

Program Specific Outcomes

Graduates of the Computer Science and Engineering will have

> ➤ **PSO 1**: The ability to deal with real time Problems by understand, the evolutionary changes in computing, apply standard practices and strategies in software project development using open-ended programming environments.
>
> ➤ **PSO 2**: The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, pursue lifelong professional development in computing and also to act as a good citizen by inculcating in them moral values & ethics.
>
> ➤ **PSO 3**: Achieve additional expertise through add-on programs.

Dr.B.MARUTHU KANNAN, ME.,Ph.D.,
Principal
NPR College of Engineering and Technology
Natham, Dindigul(Dt)-624 401

Program Outcomes

Engineering Graduates will be able to:

> **PO1: Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization 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

> **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 modeling 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.

Dr.R.MARUTHU KANNAN, ME.,Ph.D.,
Principal
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