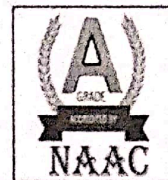




NPR

COLLEGE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai | Accredited by NAAC with 'A' GRADE
Recognized by UGC under 2 (f) | ISO 9001:2015 Certified | Web: www.nprcolleges.org | E-Mail: nprcetprincipal@nprcolleges.org
NPR Nagar, Natham - 624 401, Dindigul Dist, Tamil Nadu. Ph: 04544 - 246500, 501, 502.



Program Name: B.E. Civil Engineering

Department Vision

- To inculcate students with ingenious technical knowledge and ethical skills to develop qualified Civil Engineers.

Department Mission

- To provide quality education with field training to create competent civil engineer.
- To develop innovative applications in the design and construction of structural works.

Program Educational Objectives

Students who graduate from this Programme will be able

- **PEO1:** To become successful in the field of Civil Engineering that meets the needs of Indian and multi-national companies.
- **PEO2:** To develop the confidence and ability among students to synthesize data and technical concepts and thereby apply it in real world problems.
- **PEO3:** To utilize modern techniques, skill and mathematical engineering tools for solving problems in Civil Engineering.
- **PEO4:** To provide students with a sound foundation in mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems and to prepare them for graduate studies.
- **PEO5:** To promote students to work collaboratively on multi-disciplinary projects and make them engage in life-long learning process throughout their professional life.

Program Specific Outcomes

At the end of the program students will be able to

- **PSO1:** Identify, examine and solve problems in the domains of Civil Engineering that needs analytical and design requirements.
- **PSO2:** Plan, analyze, design and prepare estimate for Civil Engineering projects with professional ethics



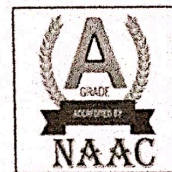

Dr. B. MARUTHU KANNAN, M.E., Ph.D.,
Principal
NPR College of Engineering and Technology
Natham, Dindigul Dist - 624 401



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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.



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