



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



Program Name: B.Tech –Artificial Intelligence and Data Science

Department Vision

- To develop AI professionals of international relevance to meet the industry and societal needs with future technologies.

Department Mission

- To collaborate with industry and provide the state-of-the-art infrastructural facilities, with a conducive teaching-learning ambience.
- To instill in the students the knowledge for world class technical competence, entrepreneurial skill and a spirit of innovation in the area of Artificial Intelligence and Data Science to solve real world problems.
- To encourage students to pursue higher education and research.
- To inculcate right attitude and discipline and develop industry ready professionals for serving the society.

Program Educational Objectives

Graduates of Artificial Intelligence and Data science will be able to

PEO1: Utilize their proficiencies in the fundamental knowledge of basic sciences, mathematics, Artificial Intelligence, data science, and statistics to build systems that require management and analysis of large volumes of data.


PEO2: Advance their technical skills to pursue pioneering research in the field of AI and Data Science and create disruptive and sustainable solutions for the welfare of ecosystems.

PEO3: Think logically, pursue lifelong learning and collaborate with an ethical attitude in a Multidisciplinary team

PEO4: Design and model AI-based solutions to critical problem domains in the real world.

PEO5: Exhibit innovative thoughts and creative ideas for an effective contribution towards the economy building.



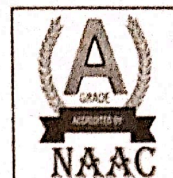

Dr. B. MARUTHU KANNAN, M.E., Ph.D.,
Principal
NPR College of Engineering and Technology
Natham, Dindigul District, Tamil Nadu



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Program Specific Outcomes

At the end of the program students will be able to

- **PSO 1:** Develop and implement AI-based processes for effective decision-making in diverse domains, including business and governance, by integrating domain-specific knowledge and advanced techniques.
- **PSO 2:** Utilize data analysis to derive actionable insights and foresights, enabling the solution of complex business and engineering problems.
- **PSO 3:** Apply theoretical knowledge of AI and Data Analytics, along with practical tools and techniques, to address societal problems, demonstrating proficiency in data analytics, visualization, and project coordination skills.



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Principal

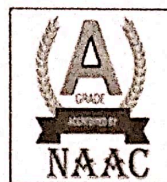
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Program Outcomes

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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