KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

NEWS LETTER

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CONTENTS

01 VISION & MISSION OF THE INSTITUTION

02 VISION & MISSION OF THE DEPARTMENT

03 PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

04 KNOWLEGE AND ATTITUDE PROFILE(WK)

05 PROGRAM SPECIFIC OUTCOMES (PSOs)

06 ABOUT THE DEPARTMENT

07 KNOWLEDGE ENRICHMENT

07 EVENTS ORGANIZED

08 FACULTY ACHIEVEMENTS

09 STUDENT ACHIEVEMENTS

10 PLACEMENT CORNER

VISION OF THE INSTITUTION

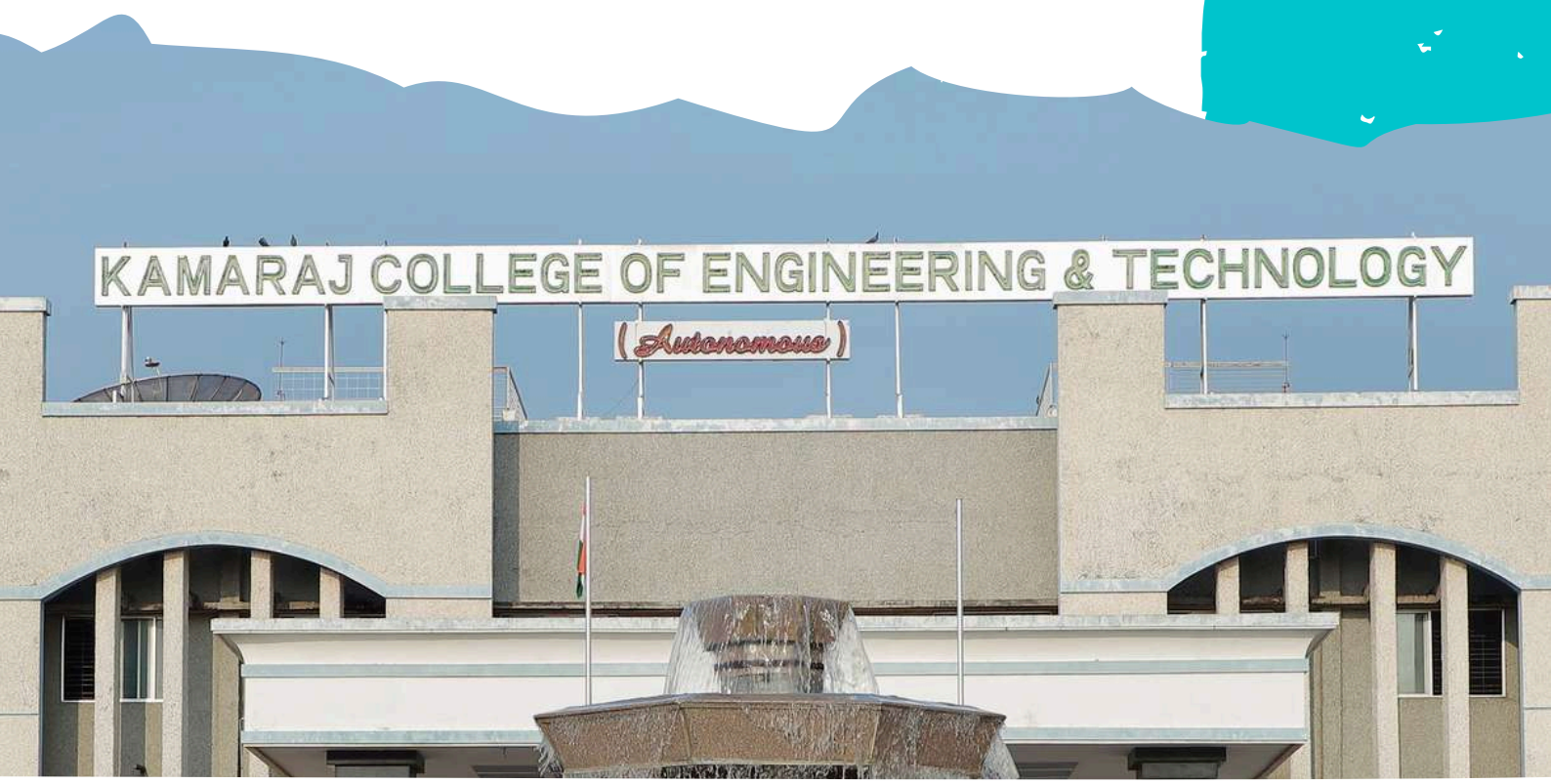
To make this institution unique in its field of research and development activities in this part of the world.

MISSION OF THE INSTITUTION

To impart highly innovative and technical knowledge to the urban and undeserved rural students through "Total Quality Education".

QUALITY POLICY

Committed to imparting quality technical education with proficiency, human values, and a commitment to continual improvement.



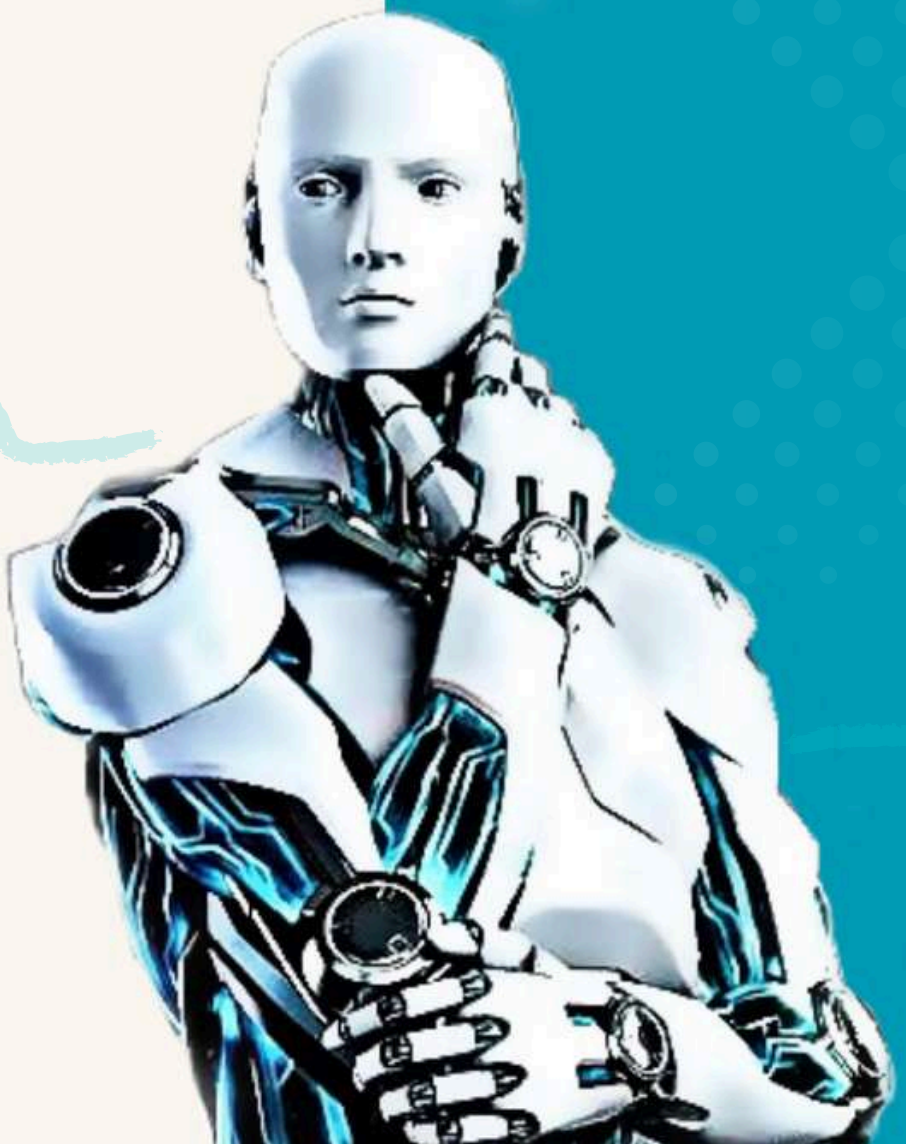
VISION & MISSION OF THE DEPARTMENT

VISION

To make the Department of Artificial Intelligence and Data Science the unique in its field of research and development activities in this part of the world.

Mission

To impart highly innovative and technical knowledge to the urban and undeserved rural students in Artificial Intelligence and Data Science through "Total Quality Education".



PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO -1 Apply the basic engineering skills and domain knowledge for developing effective computing solutions to address various social issues.

PEO -2 To have a successful career in technical / managerial roles in multi-disciplinary environment.

PEO -3 To address evolving technical challenges and problems in the areas of computing.

PROGRAM SPECIFIC OUTCOME (PSOs)

PSO -1 **Professional Skills:** To apply learned skills to build optimized solutions pertaining to Data Processing, Artificial Intelligence and Machine Learning

PSO -2 **Problem-Solving Skills:** To analyze data using domain knowledge to get insights and develop appropriate solutions

KNOWLEDGE AND ATTITUDE PROFILE (WK)

WK -1 A systematic, theory-based understanding of the natural sciences applicable to the discipline and awareness of relevant social sciences.

WK -2 Conceptually-based mathematics, numerical analysis, data analysis, statistics and formal aspects of computer and information science to support detailed analysis and modelling applicable to the discipline.

WK -3 A systematic, theory-based formulation of engineering fundamentals required in the engineering discipline.

WK -4 Engineering specialist knowledge that provides theoretical frameworks and bodies of knowledge for the accepted practice areas in the engineering discipline; much is at the forefront of the discipline.

WK -5 Knowledge, including efficient resource use, environmental impacts, whole-life cost, re-use of resources, net zero carbon, and similar concepts, that supports engineering design and operations in a practice area.

WK -6 Knowledge of engineering practice (technology) in the practice areas in the engineering discipline.

WK -7 Knowledge of the role of engineering in society and identified issues in engineering practice in the discipline, such as the professional responsibility of an engineer to public safety and sustainable development.

WK -8 Engagement with selected knowledge in the current research literature of the discipline, awareness of the power of critical thinking and creative approaches to evaluate emerging issues.

WK -9 Ethics, inclusive behaviour and conduct. Knowledge of professional ethics, responsibilities, and norms of engineering practice. Awareness of the need for diversity by reason of ethnicity, gender, age, physical ability etc. with mutual understanding and respect, and of inclusive attitudes.

PROGRAM OUTCOMES(POS)

Engineering Graduates will be able to

PO -1 **Engineering Knowledge:** Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

PO -2 **Problem Analysis:** Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development (WK1 to WK4).

PO -3 **Design/Development of Solutions:** Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required (WK5).

PO -4 **Conduct Investigations of Complex Problems:** Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8).

PO -5 **Engineering Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems (WK2 and WK6).

PO -6 **The Engineer and The World:** Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7).

PO -7 **Ethics:** Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws (WK9).

PO -8 **Individual and Collaborative Teamwork:** Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

PO -9 **Communication:** Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences.

PO -10 **Project Management and Finance:** Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

PO -11 **Life-Long Learning:** Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change (WK8).

ABOUT THE DEPARTMENT

The **Department of Artificial Intelligence and Data Science (ADS)** was established in the year 2020 with an intake of 60 students at Kamaraj College of Engineering and Technology with the goal of providing advanced education and research opportunities in the rapidly evolving fields of artificial intelligence (AI) and data science. The department provides a four-year B.Tech. programme in Artificial Intelligence and Data Science. Now with a revised intake of 120 students per year, our department remains a forerunner in imparting innovative and technical knowledge. This department is committed to delivering a comprehensive curriculum that includes both theoretical foundations and practical applications of AI and data science. It aims to foster an environment of innovation and excellence, supported by state-of-the-art infrastructure and experienced faculty

MESSAGE FROM HOD

I am happy to note that the Department of Artificial Intelligence And Data Science is releasing its Newsletter enumerating the various activities and achievements of our faculty and students.

The department endeavors to produce confident professionals tuned to real time working environment. The department offers excellent academic environment with a team of highly qualified faculty members to inspire the students to develop their technical skills and inculcate the spirit of team work in them.

- Dr.R.Aghila

EVENTS ORGANISED

S.NO	DATE	EVENT TITLE	NAME OF THE PROFESSIONAL SOCIETIES/ BODIES/ CHAPTERS/ CLUBS	RESOURCE PERSON NAME
1.	30.07.2025	A seminar titled “FromCampus to Career: Making Smart Choices AfterGraduation”	AI-GNITE Club	Mr. K. Ashok Kumar, B.Tech., alumnus of the 2020–2024 batch
2.	02.08.2025	A placement session	Mrs.N.Gajalakshmi, AP/ADS	Mr. M.K. Nhiranjan from Clustrex.
3.	01.08.2025	External Academic Audit	Department of AI&DS	Dr. S. Manoj Kumar, Professor and Head (C&D),Department of CSE, KPR Institute of Engineering andTechnology
4.	28.08.2025	Organized the event “Empowering Organizations with Business Intelligence Solutions”	Mrs.A.Nagalakshmi, AP/ADS	Mr. R. Saravanakumar, Managing Director of Sentersoft Technologies, as the resource person.

STUDENTS ACHIEVEMENTS

S.NO	STUDENT NAME	NAME OF THE EVENT	DATE	ORGANIZING INSTITUTION	AWARD
1	S. Santhosh Kumar	Sattur Marathon	19.07.2025	Partners like TMB bank, JCI, etc..	Successfully completed 10km run
2	S.H. Rujutha Vemanthani	Sattur Marathon	19.07.2025	Partners like TMB bank, JCI, etc..	Successfully completed 5km run
3.	S. Santhosh Kumar	Running	27.07.2025	VSVN College	Completed 5000m run
4.	S.H. Rujutha Vemanthani	Silambam	27.07.2025	VSVN College	Overall Trophy
5.	R. Vinesh	Painting event at “TechCaucus 2025,” asymposium	14.08.2025	SIMATS Engineering,SI MATS, Chennai,	III Prize

Editorial Team

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