

**KAMARAJ**

**COLLEGE OF ENGINEERING & TECHNOLOGY**

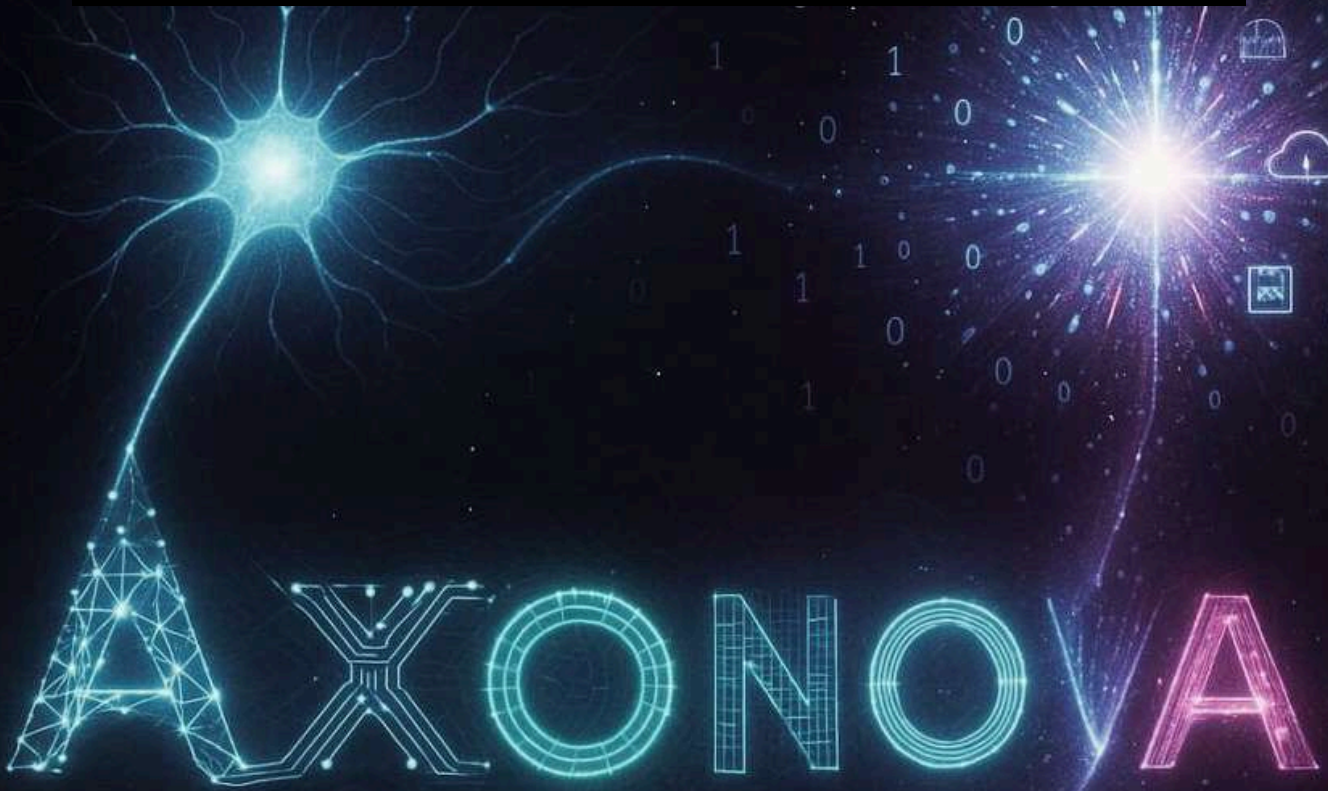


(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

# DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE



## NEWS LETTER

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## 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 underserved rural students through "Total Quality Education".

## QUALITY POLICY

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



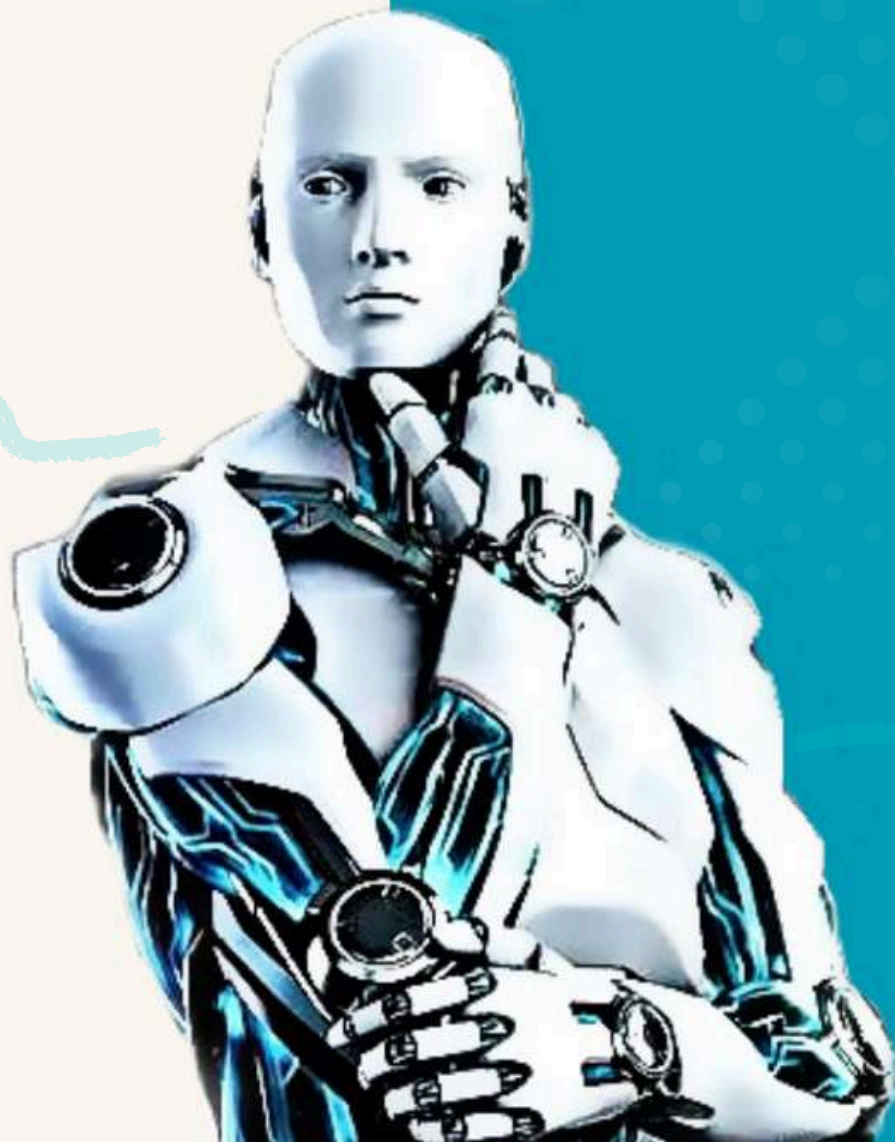
# VISION & MISSION OF THE DEPARTMENT

## 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 underserved 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

# PROGRAM OUTCOMES(POS)

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 first principles of mathematics, natural sciences, and engineering sciences.

**PO -3** **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 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 design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO -5** **Engineering Tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling recognizing their limitations to solve complex engineering Problems.

**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.

**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.

**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 -10**

**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 -11**

**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.

**PO -12**

## 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 Computer Science and Engineering 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.A.Meenakshi



# EVENTS ORGANISED

S.NO	DATE	EVENT TITLE	NAME OF THE PROFESSIONAL SOCIETIES/ BODIES/ CHAPTERS/ CLUBS	RESOURCE PERSON NAME
1	13.07.2023	AI Tools Awareness Program	CSI(Computer Society of India)	Mrs.S.Nithya AP/CSE, Mrs.S.Priyaa AP/CSE, Mrs.R.Haripriya AP/CSE, Mrs.E.Vijayalakshmi AP/CSE, Mr.D.Raj AP/CSE, Mr.G.Praveen Kumar AP/CSE, Dr.U.Kumaran ASP/CSE & Mrs.Mahalakshmi AP/IT
2.	09.08.2023	IBM Skills Build – Cyber Security Awareness	CSI(Computer Society of India)	Mr. Nirmal Kumar Cloud Site Reliability Engineer, IBM, Dublin, Ireland
3.	11.08.2023 -14.08.2023	Three days Hands on workshop on “spring into action-Mastering Hibernate and Struts	CSI(Computer Society of India)	Mr.A.S.Sasikumar, Phoenix Softech, Madurai
4.	13.09.2023 -15.09.2023	Three Days Hands on Workshop on “Redhat Linux Administration”	CSI(Computer Society of India)	Mr.S.Suresh Kannan, Director, School of Linux, Madurai.

5.	20.09.2023 -22.09.2023	Three – Day – Hands-on workshop on REDHAT Linux Administration	ISTE(Indian Society for Technical Education)	Mr.S.Suresh Kannan, Director, School of Linux, Madurai.
6.	29.09.2023 -30.09.2023	Two Days Workshop on “Agile Project Development with Scrum”	CSI(Computer Society of India)	Mr.R.K. Durgesh, CTS, Chennai.

# FACULTY ACHIEVEMENTS

S.NO	NAME OF THE FACULTY	NAME OF THE PROGRAMME	DATE	ORGANIZING INSTITUTION	PARTICIPATED/ PRESENTED/ RESOURCE PERSON
1	Mrs. S. Nithya AP/ADS	Code Craft – Mastering in Python and C	07-08-2023 & 08-08-2023	Theni Nadar Saraswathi College of Arts and Science	Resource Person
2	Mrs. S. Nithya AP/ADS	Journey from Machine Learning to Deep Learning	20-10-2023	Velammal College of Engineering and Technology	Resource Person
3.	Mrs. K. Indhumathi,A P/ADS	Augmented Reality and Virtual Reality	20-11-2023 To 25-11-2023	P.S.R Engineering College, Sivakasi.	Participated

4.	Mrs. K. Indhumathi,AP /ADS	MERN Stack web development	20-08-2024 To 24-08-2024	Microsoft India &SAP India Led	Participated
5.	Mrs. S.Nithya,AP/ADS	Applications of Generative AI	01-12-2023 To 02-12-2023	GUVI, Naan Mudhalvan & Anna University	Participated
6.	Mrs.J.Lavanya, AP/ ADS	Cloud Solutions Architect – Associate (AWS)	09-10-2023 To 14-10-2023	ICT Academy	Participated

# STUDENTS ACHIVEMENTS

S.NO	STUDENT NAME	NAME OF THE EVENT	DATE	ORGANIZING INSTITUTION	AWARD
1	Rasha Afrin	Inter College Innovative Ideathon Contest	19-08-2023	National Engineering College, Kovilpatti	III prize
2	Sri Vaishnavi	Inter College Innovative Ieadthon Contest	19-08-2023	National Engineering College, Kovilpatti	III prize

# Editorial Team



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Mrs.R.Indhuja, AP/CSE

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Mr.G.Aravind Narayanan, IV year  
Ms.V.Nuttrenai, III year  
Mr.A.M.Kathirohn, III year