



Kongunadu

College of Engineering & Technology
[Autonomous]

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NBA(CSE,ECE,EEE & MECH), NAAC, Recognized by UGC with 2(f) & 12(B) and certified by ISO 9001:2015 certified institution)



Newsletter

Volume03 | Issue02 | Jun 2025

HOD's Message



I am delighted to share that the Department of Artificial Intelligence and Data Science highlighting the diverse activities and remarkable accomplishments of our faculty and students.

The department is committed to nurturing confident professionals who are well-prepared for real-world work environments.

With a dedicated team of highly qualified faculty, we provide an excellent academic atmosphere that encourages students to enhance their technical skills and fosters a strong spirit of teamwork.

On this special occasion, I extend my heartfelt congratulations to the entire editorial board for presenting this edition in an impressive and refined manner.

We extend our heartfelt congratulations to all the placed students and wish them continued success and growth in their professional endeavors.

Editorial Board

Chief Editors:



Dr. K. Baskar (HOD/AD)



Mrs. P.G. Gayathri (AP/AD)



SOMNATH T (3rd year)



RAKESH V (3rd year)



SWATHI S (3rd year)



NAVEENKUMAR T (2nd year)



MONIHA K (2nd year)

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COLLEGE VISION & MISSION

VISION

To become an Internationally renowned Institution in technical education, research and development, by transforming the students into competent professionals with leadership skills and ethical values.

MISSION

- Providing the Best Resources and Infrastructure.
- Creating Learner centric Environment and continuous–Learning.
- Promoting Effective Links with Intellectuals and Industries.
- Enriching Employability and Entrepreneurial Skills.
- Adapting to Changes for Sustainable Development.

DEPARTMENT VISION & MISSION

VISION

To produce globally competent engineers in the field of Artificial Intelligence and Data Science with a focus on emerging computing needs of the industry and society.

MISSION

- Enrich the students' skills, knowledge with interdisciplinary skill sets by cognitive learning environment and industrial collaboration.
- Promote quality and value-based education towards emerging computing needs of the industry and entrepreneurship skills amongst students.
- Provide for students with leadership qualities, ethical and human values to serve the nation and focus on students' overall development.

PROGRAM EDUCATIONAL OBJECTIVES(PEO's)

PEO I: Graduates will be able to Artificial Intelligence professionals with expertise in the fields of Artificial Intelligence, Big Data Analytics and DataScience.

PEO II: Graduates will be able to develop problem solving skills and ability to provide solution for real time problems.

PEO III: Graduates shall have professional ethics, team spirit, life-long learning, communication skills and adopt corporate culture, core values and leadership skills.

PROGRAM SPECIFIC OUTCOMES(PSO's)

- **PSO1:** Professional skills: Students shall excel in software development including Artificial Intelligence technologies to solve complex computation task with softskills.
- **PSO2:** Competency: Students shall qualify at the State, National and International level competitive examination for employment, higher studies and research.

PROGRAM OUTCOMES(PO's)

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
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.
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.
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.
5. **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.
6. **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.
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.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **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.
11. **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.
12. **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

DEPARTMENT ACTIVITIES

Programme Conducted by the Department

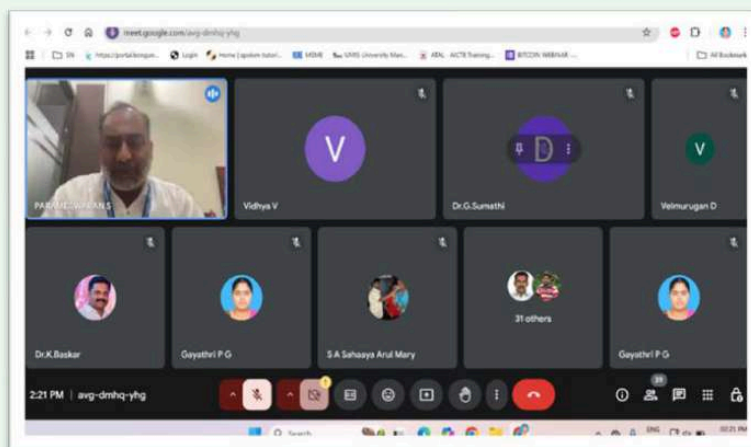
Common Programme organized:

- Computer Training Programme was organized for +2 completed students from 21st April 2025 to 25th April 2025.



Conference/Workshop/Seminar/FDP/Guest Lecture/Training/Webinar/Others:

- Webinar titled
 - “Bitcoin and Its Working” was organized on 08th April 2025, the resource person was Dr. Parameswaran Subramanian, School of Business Management, Christ University, Pune, Maharashtra.



- A Seminar titled
 - “Advanced Persistent Threats: A Comprehensive Guide to Threat Analysis, Detection and Response” held on 29th March 2025, the resource person was Mr. Prabhakaran Mani, Assistant Manager, Renault Nissan BCI Pvt Ltd, Chennai.
- 5 days Online FDP titled
 - “Data Science and AI: Transforming Teaching and Research” from 24th March 2025 to 28th March 2025, the resource person was Dr. R. Vasanthi M.E., Ph.D, Professor and Head, R P Sarathy Institute of Technology, Salem, Ms. Keerthana N V Assistant professor/IT Velalar College of engineering and Technology, Dr. Soonu Aravindan J, Assistant Professor at Kumaraguru College of Liberal Arts & Science, J.Sherrin Banu M.E, Assistant Professor, M.I.E.T. Engineering College, Dr.Tanmay Kasbe, ASP, Shri Vaishnav Vidyapeeth Vishwavidhyalaya Indore, Madhya Pradesh.

- Workshop titled
 - “Full Stack Development using REACT JS and NODE JS” was organized on 15th March 2025, the resource person was Dr. T. Thamaraiselvan, CEO – isysway Technologies, Thanjavur.
- Workshop for 3rd year AD Students titled
 - “Low-Level System Design and Implementation using Python” organized on 20th Feb 2025, the resource person was Mr. Razak Mohamed S, Chief Technology Officer, Zealous Tech Corp, Salem.



- One day Workshop for 3rd year AD Students titled
 - “Cyber Security for the Future: AI and Machine Learning Applications” on 01.02.2025 the resource person was Mr.Santhosh Raaj F, Senior Associate Consultant, Infosys Lts.
- Guest Lecture for 3rd year AD Students titled
 - “The Future of Big Data and AI: Trend, Challenges, and Opportunities” on 31st Jan 2025, the resource person was Mr. Prasanth Ravi, Senior Engineer, Vaken Technologies Pvt.Ltd, Chennai.



- Workshop for 2nd year AD students titled
 - “Optimization Algorithms in ML: Gradient Descent and Beyond” on 10th Jan 2025, the resource person was Mr. A S Mohammed Azarudeen, Technical Lead & Corporate Trainer, SDLC, Namakkal.
- Seminar for 2nd year AD students titled
 - “Deepening Deep Learning: A Comprehensive Program For Skills, Careers, and Trends” on 04th Jan 2025, the resource person was Mr.Siva Srinivasan S,CoFounder / CEO, MyndSiva Logix Private Limited, Open Minds 1x, Karur.



✿ DEPARTMENT ACHIEVEMENTS

PUBLICATION OF BOOK/MANUAL

- ✿ P. Kalaichelvi, R. Palani Kumar, R. Madanachitran & M. Mohanraj “Object Oriented Programming Using Java” The Charulatha Publications, Chennai, ISBN No:978-93-671-3792-5, May 2025.
- ✿ Dr.K.Baskar, Mrs. N. Sarmiladevi, Mrs. A.Sangeetha, Mrs. P G. Gayathri “Foundations of Data Science”, The Charulatha Publications, Chennai, ISBN No: 978-93-49002-47-0, April 2025.
- ✿ Dr. K. Baskar, Dr. G. Sumathi, Dr. S. Dhanabal, Dr. M. Suganthi, Principles of Operating Systems, The Pearson Publications, ISBN No: 978-93-671-3743-7, April 2025.
- ✿ C. Saravanabhavan, M Senthilkumar, P. Preethi, R. Aruna, “Data Structure” The Pearson Publications, 2025, ISBN No: 978-93-671-3327-9, April 2025.

PUBLICATION IN JOURNALS BY STAFF

- ✿ **Dr.K.Baskar**, R.Sathyaraj, P.Annumalika, K.Archana and M.Jayasree 2025 ‘AI-Driven Multimodal Framework for Transparent and Secure Faceless Registrations’ International Journal of Science, Engineering and Technology, DOI: 10.1007/s40031-024-01144-6, ISSN(O): 2348-4098 – ISSN(P): 2395-4752.
- ✿ **Dr.K.Baskar, Mr.S.Azarudeen**, S.Mythili, K.Reshma and A.Shalini 2025 ‘Voice to Sign-Language Translator Using NLP’ International Journal of Science, Engineering and Technology, DOI: 10.1007/s40031-024-01144-6, ISSN: 2348-4098.
- ✿ **Dr.K.Baskar, Mr.R.Sathyaraj**, N.Prashanth, M.Vishwanathan and S.Yogeshkumar 2025 ‘AR-Tifact-Genai and AR in Cultural Heritage’ International Journal of Scientific Research & Engineering Trends, Volume 11, Issue 1, Jan-Feb-2025, ISSN (Online): 2395-566X on 4th March 2025.
- ✿ **Dr.M.Senthilkumar, Dr. G. Sumathi**, V. Mani Bharathi, R. Parveshmuzaraf, P. Sabarish -“Real-Time Heritage Site Discovery Platform” Published in IJARETY, Volume 12, Issue 2, March-April 2025 ISSN:2394-2975- DOI:10.15680/IJARETY.2025.1202010 – Pg.no. 464-467.

- ✿ **Dr.M.Senthilkumar, Dr.K.Baskar**, S.Sedhuram, M.Vasikaran, V.Vikram – “AI-Powered Doctor Attendance Tracking for Healthcare Efficiency” Published in IJMRSET, Volume 08, issue 03, March 2025 ISSN: 2582-7219 –DOI: 10.15680/IJMRSET.2025.0803101 - Pg.no 1986-1993.
- ✿ R. Venkateswaran; B.N.V. Madhu Babu; M. Parameswari; Purushothapatnapu Naga Venkata VamsiLala; S. **Ambigaipriya**; N.V. Keerthana “Fall Detection in Elderly People using Compact Wearable Sensors with AI” 2024 13th International Conference on System Modeling & Advancement in Research Trends (SMART), DOI: 10.1109/SMART63812.2024, ISSN: 2767-7362 on 20th Feb 2025.
- ✿ **Mr.M.Mohanraj, Mrs.N.Sarmiladevi**, S.Kathir, D.Kavinraj, B.roshan,“SafeSphere: Empowering Minds and Ensuring Safety”, International Journal of Advanced Research in Education and TechnologyY (IJARETY) Volume 12, Issue 2, March-April 2025.
- ✿ **Mr. M. Mohanraj, Mrs. V. Vidhya**, H. Habiba Banu, T. Janasruthi, J. Madhuvarshini “Visitor-Centric Museum Experience through AI Powered Robotics”, International Journal of Innovative Research in Computer and Communication Engineering on IJRCCE, Volume 13, Issue 3, March 2025.
- ✿ **Mrs.A.Sangeetha, Mrs.N.Sarmiladevi**, G.David William, K.Pon Sridharan, T.Sutharsan “ARV-GPT: AI Virtual Assistant for Heritage Exploration” International Conference on IJMRSET DOI: 10.15680/IJMRSET.2025.0803100, Volume 8, Issue 3, March 2025.
- ✿ Mr. S. Sabari Kameswaran, Mr. S. Kirshoth, Mr. J. P. Tharun, **Mrs. A. Sangeetha, Mrs. M. Vanitha** “Learnova: An Intelligent LMS for Personalized Education and Comprehensive Management” ISSN: 2584-2854 Volume: 03 Issue:03 March 2025 Page No: 861-869, International Research Journal on Advanced Engineering and Management.
- ✿ **Mrs.N.Sarmiladevi, Mrs.A.Sangeetha**, K.Dinagar, S.Haribabu, K.Muthuvel “INTEGRATING BLOCKCHAIN AND IOT FOR A SUSTAINABLE E-WASTE MANAGEMENT SYSTEM” DOI: 10.15680/IJIRSET.2025.1403141, International Journal Innovative Research in Science, Engineering and Technology (IJIRSET), Volume 14, Issue 3, March 2025.
- ✿ **V.Vidhya, A.Sangeetha**, “AI-Powered and OCR-Based Identification System for Loan Waiver Verification” Published in International Journal of Science, Engineering and Technology (IJMRSET), Volume 13, Issue 1, March 2025. DOI: 10.15680/IJIRSET.2025.14031.
- ✿ Dr Benuprasad Sitaula Bhardhwaj, Dr. Anitha Vijayakumar, Popoola, Benjamin Olumuyiwa, Dr Naila Iqbal Qureshi, **N.Sarmiladevi**, Dr.P.Preethi ,”AI-Driven Transformer Based Framework for Identification and Tracking of Chelonian Species Using Satellite Imagery and Drone Footage” in SCIE, Chelonian Conservation and Biology, Vol. 20 No. 01 (2025): CCB, ISSN: 1071-8443.
- ✿ **Mrs.N.Sarmiladevi, Mr.M.Mohanraj**, M.Manosharma, S,Swathiga, “Smart Communication System for Speech and Mobility Impaired”, International Conference on IJARETY, Volume 12, Issue 2, March-April 2025, DOI:10.15680/IJARETY.2025.1202013.
- ✿ **Dr.G.Sumathi, Dr.M.Senthilkumar**, S.Praveen, S.Sanjay, S.Yogarajan “A Personalized Career Guidance System”, International Journal of Multidisciplinary Research in Science, Engineering and Technology”, Volume 8, Issue 3, 2025, DOI:10.15680/IJMRSET.2025.0803102.
- ✿ **Mrs.M.Vanitha, Dr.G.Sumathi**, P.Logesh, S.Midhun Chakravarthi, V.Surya “AI-Powered OCR for Digitizing Historical Documents in Regional Languages “International Journal of Multidisciplinary Research in Science, Engineering and Technology”, Volume 14, Issue 3,2025, DOI: 10.15680/IJMRSET.2025.1403142.

- ✿ **Dr.G.Sumathi, Mrs.M.Vanitha**, V.Suba, S.Swetha “Harvestsync Real-Time Connections for better Farming Profits “International Journal of Multidisciplinary Research in Science, Engineering and Technology”, Volume 14, Issue 3,2025, DOI: 10.15680/IJMRSET.2025.1403143.
- ✿ **Mrs.M.Vanitha, Dr.G.Sumathi** , J.Judha Franklin, S.Praveen, R.sanjay “Smart Petition Management System using Gen-AI “International Journal of Innovative Research in Computer and Communication Engineering”, Volume 13, Issue 3,2025, DOI: 10.15680/IJRCCR.2025.1303040.
- ✿ **Dr.G.Sumathi, Dr.M.Senthilkumar**, T.Bhagavathy, S.Gokul, S.Kumaralingam, “Inventory Management System using AI “International Journal of Innovative Research in Computer and Communication Engineering”, Volume 13, Issue 3, 2025, DOI: 10.15680/IJRCCE.2025.1303038.

✿ PAPER PRESENTED & PROGRAMME ATTENDED BY THE STAFF

CONFERENCE:

- ✿ **K.Baskar** ‘Generative AI for Medical Image Analysis for Precision Healthcare’ National Conference on Rising Phenomenon of Artificial Intelligence and Data Science Technologies, ISBN No: 978-81-972697-4-5, 2025.
- ✿ **K.Baskar** ‘Enhancing Communication with Speech Technology’ National Conference on Rising Phenomenon of Artificial Intelligence and Data Science Technologies, ISBN No: 978-81-972697-4-5, 2025.
- ✿ **Mr. M. Mohanraj**, AP, Artificial Intelligence and Data Science Presented a paper on “Modular Dashboard Generator Plug and play elements using R” in the National conference on rising phenomenon of artificial intelligence and data science technologies ncrpaidst-2k25 Er. Perumal Manimekalai College of Engineering, Hosur, Krishnagiri on 25th March 2025.
- ✿ **Dr.G.Sumathi**, ASP, Artificial Intelligence and Data Science department presented a Paper on “AI Driven Sign Language Translator” in a National Conference on Rising Phenomenon of AI & DS Technology “NCRPAIDST-2K25”, ISBN No. 978-81-972697-4-5 on 25th March 2k25 at Er.Perumal Manimekalai College of Engineering, Hosur.
- ✿ **Mr. M. Mohanraj**, AP, Artificial Intelligence and Data Science Presented a paper on”Overrian Cancer Prediction and Segmentation using U-NET” in the National conference on rising phenomenon of artificial intelligence and data science technologies ncrpaidst-2k25 Er. Perumal Manimekalai College of Engineering, Hosur, Krishnagiri on 25th March 2025.
- ✿ **Mr. M. Mohanraj**, AP Department of Artificial Intelligence and Data Science Presented a paper on”Synapse fusion: multimodal model ai based medical image analysis” in the National conference on rising phenomenon of artificial intelligence and data science technologies ncrpaidst-2k25 Er. Perumal Manimekalai College of Engineering, Hosur, Krishnagiri on 25th March 2025.
- ✿ **A.Sangeetha**, AP, Department of Artificial Intelligence and Data Science presented a paper on “LEARNOVA: An Intelligent LMS for Personalized Education and Comprehensive Management” International Conference on Engineering, Science and Management (ICESM) 2025 organized by Guru Gobind Singh College of Engineering & Research Centre, Nashik, Maharashtra on 11th and 12th March 2025.
- ✿ **N.Sarmiladevi**, AP Department of Artificial Intelligence and Data Science Presented a paper on “Enhancing Rail Madad with AI-Powered Complaint Management System”, held at Er.Perumal Manimegalai College of Engineering, Hosur, conducted National conference on Rising Phenomenon of AI&DS Technology “NCRPAIDST-2K25” on 25th March2k25.ISBN No:978-81-972697-4-5.

- ✿ **N.Sarmiladevi**, AP Department of Artificial Intelligence and Data Science Presented a paper on “Smart Cook: AI-Powered Personalized Recipe Generator”, held at Er.Perumal Manimegalai College of Engineering, Hosur, conducted National conference on Rising Phenomenon of AI&DS Technology “NCRPAIDST-2K25” on 25th March 2025. ISBN No:978-81-972697-4-5.
- ✿ **N.Sarmiladevi**, AP Department of Artificial Intelligence and Data Science Presented a paper on “Efficient Net-Based Automated Brain Tumor Classification using MRI Scans”, held at Er.Perumal Manimegalai College of Engineering, Hosur, conducted National conference on Rising Phenomenon of AI&DS Technology “NCRPAIDST-2K25” on 25th March 2025. ISBN No:978-81-972697-4-5.
- ✿ **N.Sarmiladevi**, AP Department of Artificial Intelligence and Data Science Presented a paper on “Smart Farming Assistant Leveraging AI for Sustainable Agriculture”, held at Hindustan Institute of Technology, Chennai, conducted National conference on Computing for Sustainability AI, Data Science and Smart Systems (NCCSASS 25) on 28th March 2025 to 29th March 2025.
- ✿ **Mrs. P G.Gayathri**, AP Department of Artificial Intelligence and Data Science Presented a paper on "AI-Powered Reception Chatbot for College Services" in 6th International Conference on Computational Intelligence and Industry 5.0- ICCII 2025, ISBN:978-81-967851-2-3, at Velammal Institute of Technology, Chennai held on 21st and 22nd March 2025.
- ✿ **Mrs. P G.Gayathri**, AP Department of Artificial Intelligence and Data Science Presented a paper on “Automated Inventory Management System for Small Warehouse using Django” published in International Journal of Advanced Research in Education and Technology(IJARETY), Volume 12, Issue 2, March-April 2025, DOI:10.15680/IJARETY.2025.1202011
- ✿ **Mrs. P G.Gayathri**, AP Department of Artificial Intelligence and Data Science Presented a paper on “AI-Powered OCR Solution for Handwritten Document Digitization” in International Journal of Innovative Research in Computer and Communication Engineering in Volume 13, Issue 3, March 2025, DOI: 10.15680/IJIRCCE.2025.1303039 IJIRCCE
- ✿ **Mrs. P G.Gayathri**, AP Department of Artificial Intelligence and Data Science Presented a paper on “NextGen LMS: Empowering Personalized Education Solutions” in International Journal of Scientific Research & Engineering Trends Volume 11, Issue 1, Jan-Feb-2025, DOI: 10.61137/ijsret.vol.11.issue1.184
- ✿ **Dr. M.Senthilkumar**, Professor Department of Artificial Intelligence and Data Science Presented a paper on “Real-Time human detection and Counting System” – NCCSASS’25 at Hindustan Institute of Technology on 28th & 29th March 2025.
- ✿ **Dr. M.Senthilkumar**, Professor, Department of Artificial Intelligence and Data Science Presented a paper on “Électronic Trash Recognition and Categorization Via Covolutional Neural Networks” – DASHAA T25 at K.S.Rangasamy College of Technology on March 28th, 2025 – ISBN: 978-81-984119-0-7.
- ✿ **Dr. M.Senthilkumar**, Professor Department of Artificial Intelligence and Data Science Presented a paper on “Enhancing Rail Madad with AI-Powered Complaint management System” – NCRPAIDST-2K25 at Er. Perumal Manimekalai College of Engineering on 25th March 2025- ISBN No: 978-81-972697-4-5.
- ✿ **Dr. M.Senthilkumar**, Professor Department of Artificial Intelligence and Data Science Presented a paper on “Generative AI for Youtube Video Summarizer and Notes Maker” - NCRPAIDST-2K25 at Er. Perumal Manimekalai College of Engineering on 25th March 2025 - ISBN No: 978-81-972697-4-5.

- ✿ **Dr. M.Senthilkumar**, Professor Department of Artificial Intelligence and Data Science Presented a paper on “Generative AI for Medical Image Analsis and Precision Healthcare” - NCRPAIDST-2K25 at Er. Perumal Manimekalai College of Engineering on 25th March 2025 - ISBN No: 978-81-972697-4-5.

FDP

- ✿ **Dr. G. Sumathi** ASP, Artificial Intelligence and Data Science department attended
 - FDP in NPTEL course on “Systems and Usable Security” Jan-Feb 2025.
 - FDP on “Cryptography and Network Security” organized by NPTEL-AICTE from JAN-APR 2025
- ✿ **Mrs. A. Sangeetha**, AP, Artificial Intelligence and Data Science department attended
 - FDP on “The Power of AI in Industry: Automating AI Development Ensuring its Practices” organized by Madanapalle Institute of Technology & Science, Madannapalle, from 03rd March 2025 to 08th March 2025.
 - FDP “Science, Technology and Innovation for Sustainable Development” organized by NITTTR, Chandigarh from 27th Jan 2025 to 31st Jan 2025.
 - ATAL FDP on “Innovative Medical Healthcare using Augmented Reality and Virtual Reality” organized by Gnanamani College of Technology (Autonomous) from 20th Jan 2025 to 25th Jan 2025.
- ✿ **Mr.M.Mohanraj**, AP, Artificial Intelligence and Data Science department attended FDP on ‘AI and Cloud based Tools for Research’ organized by Computer Science and Engineering Department, National Institutes of Technical Teachers' Training and Research, Chandigarh from 24/03/2025 to 28/03/2025.
- ✿ **Mrs. N.Sarmiladevi**, AP, Artificial Intelligence and Data Science department attended ATAL FDP on “Enhancing Network Performance with AI and Machine Learning Through Use Case approach” from 06th Jan 2024 to 11th Jan 2025.
- ✿ **Mrs. P G. Gayathri**, AP, Artificial Intelligence and Data Science department attended
 - FDP on ‘AI and Cloud based Tools for Research’ organized by Computer Science and Engineering Department, National Institutes of Technical Teachers' Training and Research, Chandigarh from 24/03/2025 to 28/03/2025.
 - FDP on “Introduction to Machine Learning” organized by NPTEL from Jan – April 2025
- ✿ **Mrs. M. Vanitha**, AP, Artificial Intelligence and Data Science department attended
 - FDP on “Data Analytics Using AI” organized by E & ICT Academy, IIT Kanpur, from 03rd Feb 2025 to 08th Feb 2025.
 - FDP on “Methods of research and publication ethics” organized by NITTTR, Chandigarh from 17th Feb 2025 to 21st Feb 2025
- ✿ **Mrs. V. Vidhya**, AP, Artificial Intelligence and Data Science department attended
 - FDP on “Methods of research and publication ethics” organized by NITTTR, Chandigarh from 17th Feb 2025 to 21st Feb 2025.
 - ATAL FDP on “Empowering Society: Leveraging Advanced Communication Technologies for a Connected and Resilient Future” organized by Velalar College of Engineering and Technology from 27th Jan 2025 to 01st Jan 2025
- ✿ **Mrs. S. Ambigaipriya**, AP, Artificial Intelligence and Data Science department attended FDP on “Methods of research and publication ethics” organized by NITTTR, Chandigarh from 17th Feb 2025 to 21st Feb 2025.
- ✿ **Dr. M.Senthilkumar**, Professor Artificial Intelligence and Data Science department attended FDP on course “Introduction to Internet of Things” during Jan-Apr 2025.

WORKSHOPS/ SEMINAR/WEBINAR

- ✿ **Mrs. PG.Gayathiri** AP Artificial Intelligence and Data Science department attended a workshop on “Artificial Intelligence” held organized by Indian Info Tech, Research & Training Center on 15th March 2025.
- ✿ **Mrs. PG.Gayathiri**, AP and **Mrs. M.Vanitha**, AP of Artificial Intelligence and Data Science department, attended a webinar on “Machine Learning” organized by Indian Info Tech, Research & Training Center on 19th March 2025.

INDUSTRIAL VISIT

- ✿ Artificial Intelligence and Data Science Department
 - 2nd year Students visit an Abservetech, Madurai on 13.02.2025
 - 3rd year students visit XploreIT, Coimbatore on 20.03.2025
 - 4th year students visit Abservetech, Madurai on 27.02.2025
- ✿ **Mrs. PG. Gayathri**, AP, of Artificial Intelligence and Data Science department attended Industrial Training Program on “Data Security” held at Accent Techno Soft, Coimbatore from 2nd June 2025 to 4th June 2025.
- ✿ **Mrs. Sarmiladevi**, AP, of Artificial Intelligence and Data Science department attended Industrial Training Program on “Computer Vision” in Xplore Intellects Pvt Ltd, Coimbatore, from 12th June 2025 to 14th June 2025.
- ✿ **Dr. M. Senthilkumar**, Professor, of Artificial Intelligence and Data Science department attended Industrial Training Program on “Advanced Data Structure using python” in Dot Com Infoway Limited, Madurai from 02nd June 2025 to 04th June 2025.
- ✿ **Mr. M.Mohanraj**, AP, of Artificial Intelligence and Data Science department attended Industrial Training Program on Weather Data Analysis using R programming” in JCluster Software Solutions, Namakkal from 30th May 2025 to 01st June 2025.
- ✿ **Mrs. A.Sangeetha**, AP, of Artificial Intelligence and Data Science department attended Industrial Training Program on “Data Analyst – Building Intelligent System” in iSquare Data System Pvt Ltd, Trichy from 30th May 2025 to 01st June 2025.
- ✿ **Dr. G. Sumathi**, ASP, Artificial Intelligence and Data Science department attended Industrial Training Program on “Principals of Operating System” in Redmind Technologies, Vennandhur from 26th May 2025 to 28th May 2025.

★ STUDENTS CONTRIBUTION

Prize won by Students in competitions:

- ★ **Gokul Krishnan N, Gokulnath M, Karthikeyan, Manoj S**, 3rd year AD students shortlisted among top 32 finalists out of 4,669 ideas in the L&T Techgium on the topic “Creating durable Water - Resistant Electronics” and attended the finale at lts office, Bangalore on 15 and 16/05/2025.



- ★ **Gokul Krishnan N**, 3rd year AD student team shortlisted among the Top 10 from 64 teams in the NEURO-HACK event at DAKSHAA T25, hosted by GUVI & HCL on 28 & 29/03/2025
- ★ **Darshwana R S, Dhayalini S S, Hareini S**, 2nd year AD Students won 2nd prize in paper presentation in KSR college of technology on 28/03/2025.



- ★ **Sowmiya A and Shanmugapriya S** 2nd year AD Students won second prize in Paper Presentation held in PGP college of Engineering and Technology on 28/03/2025.
- ★ **Balaganesh S** 3rd year AD student won 1st Prize in the event Debugging in state level Symposium KRYPTO'25 conducted by K. Ramakrishnan College of Engineering, 28/03/2025.

- ✿ **Shanmugapriya. S**, 2nd year AD student won 2nd Prize in the event paper presentation organized by PGP College of Engineering and Technology on 28/03/2025.
- ✿ **Mahesh. R and Manoj. S** 3rd year AD students won 2nd Prize in the ELANTRA 2k25 organized by Kangeyam Group of Institutions, Kangeyam on 25,26/03/2025.
- ✿ **Delkowshtyasri N M and Kiruthika S** 3rd year AD students won 2nd prize in the paper presentation held at MAM College of Engineering and Technology on 22/03/2025.
- ✿ **Bala Ganesh S, Vignesh R and Gokul M** 3rd year AD students won 1st prize in Debugging held at MAM College of Engineering and Technology on 22/03/2025.
- ✿ **Vignesh R** 3rd year AD student won 1st prize in Designing Delight held at MAM College of Engineering and Technology on 22/03/2025.



- ✿ **3rd year students** won the overall trophy in the events held at MAM College of Engineering and Technology on 22/03/2025.
- ✿ **Mahesh R and Sudarshana S** 3rd year AD students won 2nd prize in Paper Presentation Organized by SNS College of Technology at 20/03/2025.
- ✿ **Mahesh R and Sudarshana S** 3rd year AD students won 1st prize in connection event Organized by AVS Engineering College “VYUGAM2K25” at 21/03/2025.



- ✿ **Yogesh Kanna** 2nd year AD student got second prize in the Meta AI event at SELVAM Engineering College, Namakkal at 21/03/2025.
- ✿ **Jayadharshini and Praveen** 2nd year AD student secured 1st Prize in the Project Expo under the Department of Artificial Intelligence and Data Science at N.S.N College of Engineering and Technology. Additionally, they achieved the 1st Prize overall across all departments in the Project Expo at N.S.N College of Engineering and Technology. They received a prize amount of ₹1000 in each category at 20/03/2025.



- ✿ **Sudarshana R**, 3rd year AD student won 1st prize in presentation in “Texperia 2025” held on 19th & 20th March 2025 organised by SNS College of Technology.
- ✿ **S.Vishnukumar and A K.Yasvand** 2nd year students secured 2nd prize in the Project Expo, organized by the Department of Artificial Intelligence and Data Science at N.S.N. College of Engineering and Technology at 20/03/2025.



- ✿ **A.K.Yashvand** 2nd year AD won 1st Prize in Quizzastrophic at N.S.N. College of Engineering and Technology held on March 20th 2025.
- ✿ **V. Lakchaya** team 3rd year AD student won the Special Mention Prize of ₹10,000 and an internship at TANCAM’s TNWISE 2025 Hackathon for their project, "Revolutionizing Environmental Monitoring: Real-Time BOD and COD Analytics for Water Quality" organized by TANCAM, Chennai, in association with Periyar Maniammai Institute of Science & Technology, Thanjavur at 20/03/2025.



- * **Sujith B** 2nd year AD student Won 1st prize on Wealth Wizards DHRUVA 2025 during 13,14,15/03/2025 with prize amount of 1000 at Karpagam college of engineering, Coimbatore.
- * **Moniha K** 2nd year AD student Won 1st prize on Master minds with prize amount of 1000 at Karpagam college of engineering, Coimbatore at 15/03/2025.
- * **Rakesh V, Kavin S, and Logeshwaran S** 3rd year AD students won 1st prize with the cash prize of ₹20,000 in Kongu engineering college Hacakathon (AI CONCLAVE) which is conducted by AI Department.



- * **Gokul Krishnan N** 3rd year AD student team Won 1st prize on "Project Expo" in FIESTAA'25 at KPR institute of engineering and technology with the Cash prize of rs.5000 at 14/03/2025.



- ❁ **Prasanth N** fourth year Student won Sastra university colloseum edition 15th national level sports fest men's table tennis runner up.



- ❁ **R.Sudarshana** of 3rd year AD student won 1'st price in women's day speech compation on the topic Accelerate action organised by women development cell in kongunadu College of Engineering and Technology on 10/03/2025.



- ❁ **Sanjeev S T**, 2nd year AD student won 1st Prize in Idea Presentation of "I'VE NOR' 25" organized by Sona College of Technology, held on 28th Feb, 2025.
- ❁ **Lakchaya V, Anupriya A** team won a 1st prize in ElectroBlitz25 Hackathon conducted by EEE department, Kongunadu college of Engineering on 22/02/2025.
- ❁ **Harish K, Harish V & Hariharasudan N** 3rd year AD students won 3rd prize in Project Expo in Sri Eshwar College of Engineering, Coimbatore on 21/02/2025.



- ✿ **Harish K** 3rd year AD student Won 1st Prize in IMPROBOTICS AI DRIVEN organized by Sri Eshwar College of Engineering, CBE on 20,21 & 22/02/2025.
- ✿ **R. Pradeep and P Sabarish**, 4th year AD students won 1st Prize in Design Blitz organized by Sri Eshwar College of Engineering, CBE on 20,21 & 22 February 2025.



- ✿ **P.Sabarish, V.Manibharathi, R.Parveshmuzaraf, S.Gokul,R.Pradeep** 4th year AD students has Won the 4th prize of Rs.500 in the Project Expo in Thiran'25, Sri Eshwar College of Engineering, Coimbatore on 21/02/2025.
- ✿ **P.Sabarish and V.Manibharathi** 4th year AD students has Won the 2nd Prize of Rs.750 in the Meme Mania at *Thiran'25, Sri Eshwar College of Engineering, Coimbatore on 21/02/2025.
- ✿ **Logeshwaran S,Pranesh KR. Madhanmetha R and Rakesh V** 3rd year AD students won Fifth place among 60 teams in the HACKFEST 2K25 With the Cash Price of ₹7500 at M.Kumarasamy College of Engineering and Technology on 21/02/2025.
- ✿ **Mahesh. R and Sakthivel K** 3rd year AD students won 1st prize in PC Building at the Technical Symposium CRYPTERA 2025, organized by the Department of CSE, Coimbatore Institute of Technology, on 21/02/2025.
- ✿ **Madhan Metha S, Karthikeyan R, Rakesh V** team won a 3rd prize in GENESIS'25 Hackathon conducted by CSE department on 15/02/2025.



- ✿ **Pranesh K R, Logeshwaran S Kowsiga Shri S** 2nd year AD students won 2nd prize in GENESIS'25 Inter College conducted by Department of CSE, Kongunadu college of Engineering on 15/02/2025.
- ✿ **Darshan Krishna Kumar S, Anbarasu S, Dharsan B** 2nd year AD students won First prize in Project Expo organized by Department of Artificial Intelligence and Data Science, VELTECH, Chennai. 14/02/25.
- ✿ **Mahesh R** & his team won the First Prize in SCHWAN TECH 2.0 -24 hours Intra college Hackathon organized by Department of BME on 12.02.2025 & 13.02.2025.



- ✿ **Gokul Krishnan N (Team Lead), Manoj S, Gokulnath M** won the Consolation Prize (₹5000) at CMR HACKFEST 2025, conducted by the Center for Engineering Education Research, CMR College of Engineering and Technology, Hyderabad, from January 31st to February 1st, 2025.



- ✿ **Surya M** 2nd year AD student completed “Front End Development Libraries” Course on March 9, 2025 organized by FreeCodeCamp.
- ✿ **Gowtham and Surya M** 2nd year AD student completed “Introduction to Data Science for Complete Beginners” course on 19th March 2025 conducted by Tutorialspoint.
- ✿ **N.Aiswarya, R.Mahesh, K.Sakthivelan and R.Sudarshana** 3rd Year students were doing their one-month internship as a Junior AI/ML Researcher under Praya Labs from 17th January 2025.
- ✿ **M.Surya and T.Sanjay** 2nd year AD Completed “Artificial Intelligence” Master Class Course for 30 Days conducted by NoviTech R&D Private Limited from 05/12/2024 to 11/01/2025.

INTERNSHIP

- ✿ Madhan Metha S, Karthikeyan R, Manoj S 3rd year AD students were doing their internship in Datzsoft from 7th Feb 2025 to 31st May 2025
- ✿ Rakesh V 3rd year AD students were doing their internship in Nexitence Technology LLP from 5th Dec 2024 to 5th Feb 2025.
- ✿ N. Aiswarya, R. Mahesh, K. Sakthivelan and R. Sudarshana 3rd year AD students were doing their one-month internship as a Junior AI/ML Researcher under Praya Labs from 15th Jan 2025 15th Feb 2025.
- ✿ 2nd Year AD Students attend their internships in
 - Ideal Formatic Group of companies, Selam
 - Galwin Technology, Trichy
 - Infoem software solutions, Namakkal
 - GR Soft Tech, Trichy
 - Sun Software Solutions, Coimbatore
 - Prompt infotech, Coimbatore
 - Eagle-Hi Tech Softclou Private Limited, Chennai
 - Nexora Academy Pvt. Ltd., Trichy
 - Nexitence, Thottiam
 - National Institute of Technology (NIT), Trichy
 - Virtual technology, Dindigul
 - Hindustan Aeronautics Limited, Bangalore
- ✿ 4th year AD Students attend their internship for their placements
 - Logesh P and Sedhuran S - Technologies, Chennai.
 - Archana K, Haribabu S, Shalini A, Kishore S - ASM Technologies, Bangalore.
 - Dinagar K and Yogarajan S - Zoho Crop, Chennai.
 - Girirajan R, Harikrishna S, Prashanth N and Rithika S - CTS Coimbatore, Chennai, Kolkata.
 - Jayasree M- Vthink, Coimbatore.
 - Vikram V - Vei Technologies, Chennai.

- Sugash K - Codecart Infotech, Chennai.
- Madhumitha T - Hitachi solutions, Chennai.

Paper Presentation by the Students:

- 68 Students from Artificial Intelligence and Data Science presented a paper presentation in other colleges

Technical Events

- 153 Students from Artificial Intelligence and Data Science participated in Hackathons in other colleges.
- 22 Students from Artificial Intelligence and Data Science participated in Project Expo in other colleges.
- 36 Students from Artificial Intelligence and Data Science participated in Technical events in other colleges.

Students Seminar/ Webinar/ Workshop

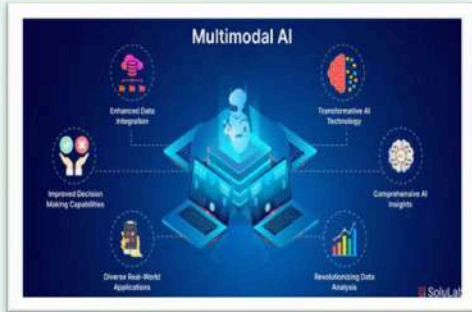
- 26 Students from Artificial Intelligence and Data Science attended Seminars.
- 43 Students from Artificial Intelligence and Data Science attended workshops.

IIT Spoken Tutorial:

- 61 Students from IV-year AD Department completed “HTML” test organized at Kongunadu College of Engineering and Technology provided by the Spoken Tutorial Project, IIT Bombay on November 29/11/2023.
- 60 Students from III-year AD Departmen completed “R” test organized at Kongunadu College of Engineering and Technology provided by the Spoken Tutorial Project, IIT Bombay on November 29/11/2023.
- 68 Students from II-year AD Department completed “JAVA” test organized at Kongunadu College of Engineering and Technology provided by the Spoken Tutorial Project, IIT Bombay on November 29/11/2023.



MULTIMODAL AI:



vocal responses (audio modality) to requests.

Artificial intelligence that can analyse and comprehend several data kinds, such as text, images, audio, and video, at the same time is known as multimodal AI. By combining input from multiple sources, multimodal AI provides a more thorough and nuanced understanding than typical AI models that use only one sort of data.

Virtual assistants like Google Assistant and Amazon's Alexa are the best examples of multimodal AI. This assistive technology can deliver text-based responses (text modality), visual responses (visual modality), and



QUANTUM COMPUTING:



Quantum computing is an emergent field of computer science and engineering that harnesses the unique qualities of quantum mechanics to solve problems beyond the ability of even the most powerful classical computers.

The field of quantum computing includes a range of disciplines, including quantum hardware and quantum algorithms. While still in development, quantum technology will soon be able to solve complex problems that classical supercomputers can't solve (or can't solve fast enough).



WEARABLE TECHNOLOGY:



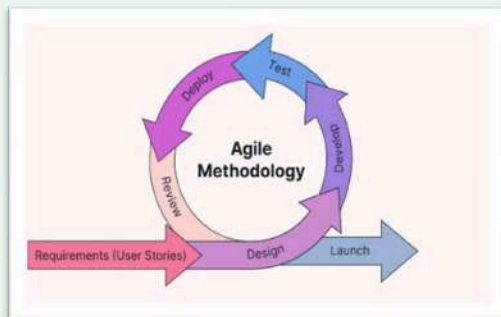
Wearable technology, also known as "wearables," is a category of electronic devices that can be worn as accessories, embedded in clothing, implanted in the user's body, or even tattooed on the skin. The primary goal of wearable technology is to provide users with convenient access to information, improve daily activities, & enhance overall experiences. Sensors: Wearables are equipped with a variety of sensors that capture the data from the user's body or surrounding environment.

★ EDGE AI:



Edge AI refers to the integration of artificial intelligence (AI) directly into edge devices, bringing processing power closer to the data source. This approach allows for faster, more efficient, and secure data analysis, reducing reliance on cloud-based processing and minimizing latency. Essentially, edge AI enables devices like smartphones, IoT sensors, and industrial equipment to perform AI tasks locally, rather than sending all data to a centralized cloud for processing.

★ AGILE METHODOLOGY



Agile methodology provides a valuable framework for developing AI and ML solutions, enabling teams to adapt to the complexities and rapid changes in the field. By embracing iterative development, cross-functional collaboration, and continuous feedback, organizations can accelerate AI development, improve model performance, and ultimately deliver greater value to users.



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DEPARTMENT VISION & MISSION STATEMENT

VISION

To produce globally competent engineers in the field of Artificial Intelligence and Data Science with a focus on emerging computing needs of the industry and society.

MISSION

- Enrich the students' skills, knowledge with interdisciplinary skill sets by cognitive learning environment and industrial collaboration.
- Promote quality and value based education towards emerging computing needs of the industry and entrepreneurship skills among students.
- Provide for students with leadership qualities, ethical and human values to serve the nation and focus on students' overall development.

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