



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 | Issue01 | Dec 2024



HOD'S MESSAGE



I am happy to note that the Department of Artificial Intelligence and Data Science is releasing its Fifth Newsletter for Academic Year 2024-2025 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.

On this occasion, I congratulate all the team members of the editorial board for bringing up this issue in a better shape.

EDITORIAL BOARD

Chief Editor



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

Student Editors



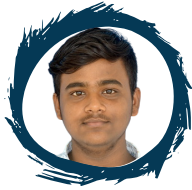
Bhagavathi T (4th Year)



Praveen S (4th Year)



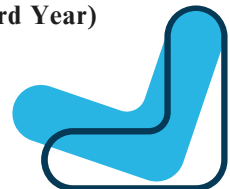
Naveenkumar T (2nd Year)



Madhan Metha S (3rd Year)



Gokul krishnan N (3rd Year)





CONTENTS

- Department Vision/Mission
- Department Activities
- Staff Contributions
- Students Contributions
- Students Achievements

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 among students.
- Provide for students with leadership qualities, ethical and human values to serve the nation and focus on students' overall development.

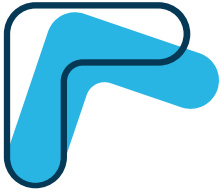
PROGRAM EDUCATIONAL OBJECTIVES(PEO's)

- **PEO I:** Graduates will be able to Artificial Intelligence professionals with expertise in the fields of Artificial Intelligence, Big Data Analytics and Data Science.
- **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 soft skills.
- **PSO2:** Competency: Students shall qualify at the State, National and International level competitive examination for employment, higher studies and research.

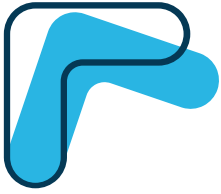




PROGRAM OUTCOMES(PO's)

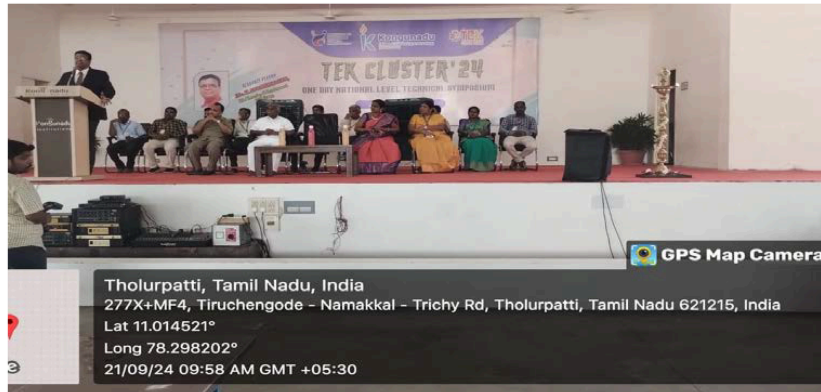
1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching 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.





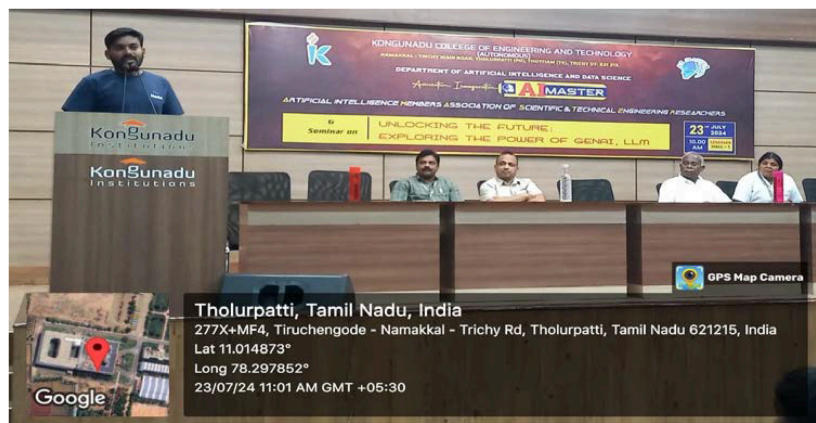
COMMON PROGRAMME ORGANIZED

- “Twelfth National Level Technical Symposium” (TEKCLUSTER`24) was organized on 21st September 2024. The Chief Guest was Mr. K. Subramanian, HR / Learning & Development, TVS Group, Chennai.



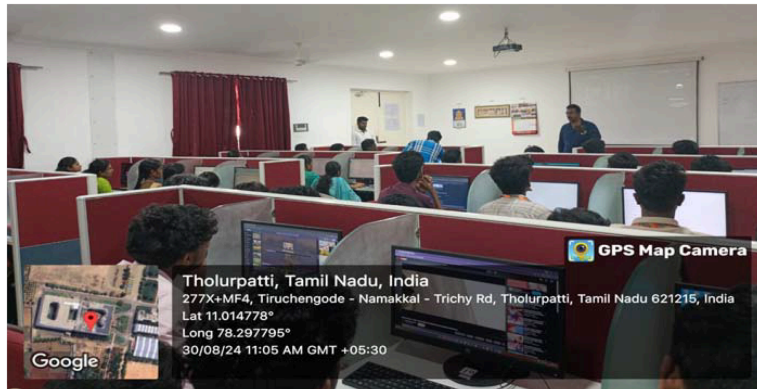
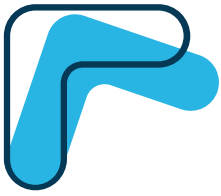
PROGRAMME CONDUCTED BY THE DEPARTMENT

- Seminar on “Unlocking the Future: Exploring the Power of GenAI, LLM” was organized on 23rd July 2024. The resource person was Mr. Mohanraj Krishnamoorthy, Solutions Architect, Nexla, Inc San Mateo, California, United States.

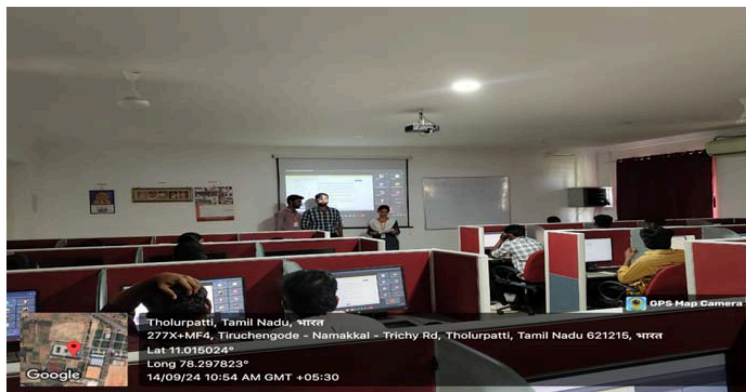


- NCSS Inauguration with Seminar entitled “Lockdown Your Digital Life: The Importance of Online Security” was organized on 08th August 2024. The Chief Guest was Mr. Sathish Aswin, Head-Information Security, Gain Credit.
- Workshop on “Data Analytics using Power BI” was organized on 30 August 2024. The Chief Guest was Mr. Mohan Natesan, Corporate Trainer, Cognizant Academy, Bangalore.

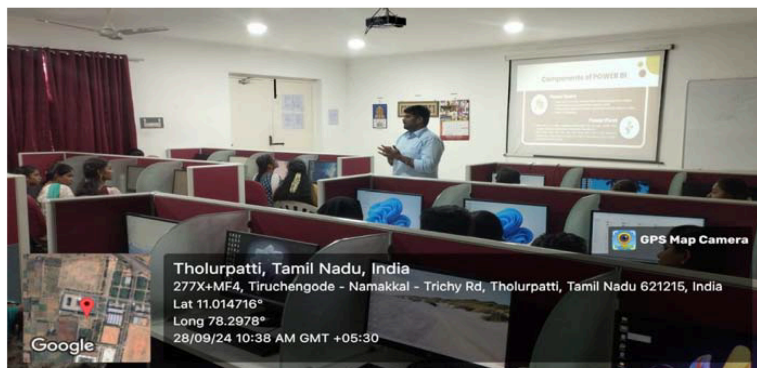


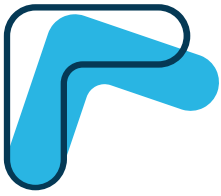


- Certification Course on “AWS Cloud Practioner” was organized on 5th August to 31st August 2024. The Chief Guest was Mrs. V. Manochithra, Head & CEO, iSysway Technologies, Thanjavur.
- Workshop on “Generative AI & its Applications” was organized on 14th September 2024. The resource person was Dr. A. Venkata Subramanian, Associate Professor, Computer Science and Engineering, Gitam University, Bangalore.



- One day National Level Workshop on “Decision Making with Power BI Analytics” was organized on 28th September 2024. The Chief Guest was Mr. Aravinth Kuppusamy Director – Training & Development, Xplore IT Corp, Coimbatore.





- One day Seminar on “Future directions and guidance for securing high-paying roles in IT industry” was organized on 28th September 2024. The resource person was Mr. Bala Shanmugham, Senior Software Engineer, Caterpillar, Coimbatore.
- Guest Lecture on “Building Dynamic Web Applications with Angular and MySQL” was organized on 03rd October 2024. Mr. Prabhakaran Mani, Assistant Manager, Renault Nissan BCI PVT Ltd. Chennai.



- One day Workshop for on “The Role of Angular in Industries” was organized on 19th October 2024. The Resource person was Puviyarasan Stephan, Senior Software Engineer a CGI, Bangalore.

VALUE ADDED COURSE

- 2nd year Students attended value added Course on “Core Java”. The chief guest was Mr. D. Gokul Prasanth, Founder and Head – Talent Acquisition, YELLOW MATICS, Coimbatore from 23rd Sep 2024 to 28 Sep 2024.
- 3rd year Students attended value added Course on “Machine Learning with AI Applications”. The chief guest was Mr. Durairaj, Python Developer, Mr. Loganathan R, Senior Trainer – Mobile Applications, Xplore IT Corp, Coimbatore on 15th July 2024.

MOU'S

- Our Department signed the MOU in Saived Perficient Pvt Ltd., Coimbatore on 28th September 2024.





STAFF CONTRIBUTIONS

Staff as a Resource Person

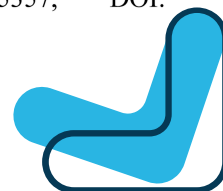
- Mr. M. Mohanraj, AP gave a lecture on “Digital Literacy – Basic Computer Knowledge at Government Higher Secondary School, Kavakkarampatti on 15th July 2024.
- Dr. K. Baskar, ASP gave a lecture on “Research paper writing and Publication” at Pencil Bitz, Coimbatore 11th August 2024 to 15th August 2024.
- Dr. G. Sumathi, ASP gave a lecture on “Applications of Virtual Reality in Education and Training” at Muthayammal Engineering College, Rasipuram on 13th November 2024.

Publication of Book/Manual

- Dr. J. Preetha, Dr. K. Baskar, P.G. Gayathri, “Data And Information Security”, The Charulatha Publications, Chennai, ISBN No : 978-81-973219-9-3, June 2024.
- Dr. J. Preetha, N. Sarmiladevi, V. Sathya, “Deep Learning Techniques”, The Charulatha Publications, Chennai, 978-81-973219-1-7, June 2024.
- Dr. K. Baskar, M. Vanitha, M.A. Swedhaa, “AI in Robotics”, The Charulatha Publications, Chennai, 978-81-973219-5-5, June 2024.
- Dr. K. Baskar, N. Sarmiladevi, P.G. Gayathri, “Digital Marketing”, The Charulatha Publications, Chennai, 978-81-973219-2-4, June 2024

Publication in Journals by Staff

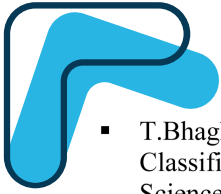
- Sreenivas Reddy Sagili, Senthilnathan Chidambaranathan, Nagarjuna Nallametti, Harana M.Bodele, Dr. Laxmi Raja, **Mrs. PG. Gayathri**, “NeuroPCA: Enhancing Alzheimer’s disorder Disease Detection through Optimized Feature Reduction and Machine Learning” organized by K.Ramakrishna College of Engineering, Tiruchirapalli, DOI:10.1109/ICEEICT61591.2024.10718628 on 24 to 26 July 2024, IEEE Indexed.
- Nandhini R; **Dr. G. Sumathi**; S. Ramya; Saravanan Thulasi; Ishwarya M. V; S. Murugan “Advancing Patient Care for Autonomous Saline Level Alter System with Cloud-based isolation Forest algorithm”, ISSN: 2996-5357, DOI: 10.1109/ICESC60852.2024.10690111 organized by Hindusthan Institute of Technology, Coimbatore, on 7th to 9th August 2024, Scopus Indexed.
- **Dr. G. Sumathi**; P. Sudha Juliet; M. Shafiya Banu; S. Daisylin Anbu Sujitha; Yuvaraj S; S. Sujatha, “Molecular Design for Drug Discovery with the Use of Generative Adversarial Networks organized by Hindusthan Institute of Technology, Coimbatore, ISSN: 2996-5357, DOI: 10.1109/ICESC60852.2024.10689846 on 7th to 9th August 2024, Scopus Indexed.





- Chitra Sabapathy Ranganathan; N. Mohankumar; **Dr. G. Sumathi**; A. Nithya; P. Sudha Juliet; M. Muthulekshmi “IoT-Enabled Table Turnover for Dining Experiences with AdaBoost Algorithm”, published in IEEE Xplorer, ISBN:979-8-3503-6153-7, DOI: 10.1109/APCIT62007.2024.10673632 on 26th to 27th July 2024, Scopus Indexed.
- Chitra Sabapathy Ranganathan, Nandhini R, K Nisha, **Dr. G. Sumathi**, G. Sudhakar, C. Srinivasan “Random Forests for Predicting Diabetes Progression and Complications” organized by KSR College of Engineering, ISBN: 979-8-3503-5417-1/24 on 16 Dec 2024.
- **K. Baskar**, K. Muthumanickam, P. Vijayalakshmi & S. Kumarganesh, “A Strong Password Manager Using Multiple Encryption Techniques” Scopus paper indexed in Springer, DOI: 10.1007/s40031-024-01144-6 on 13th September 2024.
- S. Balakrishnan, P Michael Preetam Raj, J. Somasekar, Kambala Vijaya Kumar, S. Amutha & **A. Sangeetha** “Remote Sensing Data Based Satellite Image Analysis in Water Quality Detection for Public Health Data Modelling” Scopus paper indexed in Springer, Volume 7, pages 532–541, DOI: <https://doi.org/10.1007/s41976-024-00145-9> on 27th September 2024.
- M. Abbijanane, Naveenkumar Anbalagan, J. Akilandeswari, P. Iyyanar, **N. Sarmiladevi** & M. Sreekrishna, “Design and Implementation of an Automated Attendance Management System Using Face Recognition Technology”, Scopus paper indexed in Springer, volume 392, ISBN: 978-981-97-3690-4, DOI:10.1007/978-981-97-3690-4_28 on 30th September 2024.
- Dr.Nithya.T, Dr. Sangeetha, R.Shanthi , Dr. Dharani Devi, **Dr. M. Senthilkumar**, Dr. Chandrasekaran, Mohammed Yasin, Nandhini, Santhosh Kumar, “A Next-Generation Iot-Integrated Arduino System for Intelligent Home Environment Monitoring” Volume 48 Issue 3 pp. 126-136 (September 2024) <https://powertechjournal.com> ISSN: 1000 – 3673, Scopus Indexed.
- Dr.T.Saravanan, Dr.N.Radha, **N. Sarmiladevi**, Dr.P.Preethi ,”Deployment Of Iot-Enabled Sensing Devices For Real Time Forest Fire Prediction System Using Boundary Constrained Cnn Model” in SCIE, Annals of Forest Research ,Issue Vol. 67 No. 1 (2024), ISSN: 18448135 | 20652445.
- A Suganthi, **N Sarmiladevi**, A Indhuja, G Venkatesan,” Performance Analysis of Machine Learning Classification for Parkinson’s Disease from Biomedical Audio Data”, 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), IEEE Xplore, DOI: 10.1109/ICCEBS58601.2023.10448605, ISBN:979-8-3503-9458-0.
- Krishna Prakash R, **Sarmiladevi N**, Balajee R M, Indhuia A,” Blockchain Technology for Protecting Ingenuity of Image”, on Advance Computing and Innovative Technologies in Engineering (ICACITE), IEEE Xplore, DOI: 10.1109/ICACITE57410.2023.10182685.
- R. Praveshmuzaraf, R. Pradeep, **Mrs. N. Sarmiladevi**, “Improved Accurate Face Mask Analysis Using YOLOv5 and Auto Labelling”, International Journal of Multidisciplinary Research in Science, Engineering and Technology, ICIT-24, Volume 7, Issue 13, ISSN:2582-7219.
- S Kumaralingam, V Manibharathi, R Rishinath, **Mrs. N. Sarmiladevi**, Mr R Sathyaraj,” Student Admissions Prediction System Using AI/ML Techniques”, International Journal of Multidisciplinary Research in Science, Engineering and Technology, ICIT-24, ICIT-24, Volume 7, Issue 13, ISSN:2582-7219.





- T.Bhaghavathi, D.Kavinraj, S. Praveen , **Mrs.N.Sarmiladevi**, Mr.M.Sivakumar “Plant Species Classification Using Deep Learning”, International Journal of Multidisciplinary Research in Science,Engineering and Technology,ICIT-24, ICIT-24,Volume 7,Issue 13,ISSN:2582-7219.



Paper Presented (only in Seminar and conference) & Programme attended by the Staff

- **Dr. M. Senthilkumar**, Professor, Artificial Intelligence and Data Science department presented a research paper on “Optimizing Crime Prevention Strategies Using Machine Learning Models” in the 2024 First IEEE International Conference for Women in Engineering (INCOWOCO 2024) held at Symbiosis Institute of Computer Studies and Research (SICSR), Symbiosis International (Deemed University), Pune, Maharashtra, India during 14th to 15th November 2024.
- **Mrs. Vidhya V**, AP of Artificial Intelligence and Data Science department presented a research work titled AI- Driven Assessment and Evaluation: Enhancing Sustainability in Educational Practices at the 3rd International conference on Automation, Computing and Renewable Systems (ICACRS 2024), organized by Mount Zion College of Engineering and Technology, Pudukkottai on 4th to 6th December 2024.



WORKSHOP

- Mrs. A. Sangeetha, AP, Mrs. S. AmbigaiPriya, AP, Mrs. P.G. Gayathri, AP, Mr. M. Mohanraj, AP and Mrs. V. Vidhya, AP of Artificial Intelligence and Data Science department attended Workshop on “Data management and Data Mastering” at Providence College for Women, Coonoor, from 26th July to 29th July 2024.
- Mrs. N. Sarmiladevi, AP of Artificial Intelligence and Data Science department has completed data analytics workshop from jabaaj learnings on 15th September 2024.



WEBINAR

- Mrs. P.G. Gayathri, AP, Mrs. N. Sarmiladevi, AP, Mrs. M. Vanitha, AP and Mrs. V. Vidhya, AP of Artificial Intelligence and Data Science department, Participated Webinar on “Research Paper Writing and Publications” Organized by Srinivasa College of Art and Science at 5th October 2024.
- Dr. M. Senthilkumar, Professor of Artificial Intelligence and Data Science department Participated in 5 days webinar on “Basic of Full Stack Development and Placement Support” organized by KK Academy, Coimbatore on 14th Oct to 18th October 2024.
- Dr. G. Sumathi, of Artificial Intelligence and Data Science department attended seminar on "Applications of Virtual Reality in Education and Training" at Muthayammal Engineering College on 13th November 2024.





FDP

- ❖ Dr. K. BASKAR, HOD of Artificial Intelligence and Data Science department attended
 - FDP on “Artificial Intelligence and Robotics” organized by Mahaguru Institute of Technology, Kerala, from 15.07.2024 to 19.07.2024.
 - FDP on “Outcome based Education and Accreditation process” organized by Curriculum Development Center Department, NITTTR, Chandigarh from 25th to 29th November 2024.
 - ATAL FDP on “Enhancing cyber threat detection through incorporating digital technologies” at VelTech Ranagarajan Dr. Sagunthala R&D Institute of Science and Technology from 09th December 2024 to 14th December 2024

- ❖ Dr. G. Sumathi, ASP, Artificial Intelligence and Data Science Department attended
 - NPTEL FDP on “Practical Cyber Security for Cyber Security Practitioners” Organized by NPTEL from July – October 2024.
 - FDP on “Outcome based Education and Accreditation process” organized by Curriculum Development Center Department, NITTTR, Chandigarh from 25th to 29th November 2024.
 - ATAL FDP on “Cyber Security in AI” at CMR University from 02nd to 07th December 2024.

- ❖ Dr. M. Senthilkumar, Professor, Artificial Intelligence and Data Science Department attended
 - FDP on “Machine Learning & Data Science with Python” under PHN Technology Pvt. Ltd from 26th Aug to 30th Sep 2024.
 - FDP on “Outcome based Education and Accreditation process” organized by Curriculum Development Center Department, NITTTR, Chandigarh from 25th to 29th November 2024.
 - FDP on “Artificial Intelligence and Data Science” in NoviTech R&D Private Limited.
 - ATAL FDP on “Cyber Security in AI” at CMR University from 02nd to 07th December 2024.

- ❖ Mrs. A. Sangeetha, AP, Artificial Intelligence and Data Science Department attended
 - FDP on “Research Paper writing and Publication” Organized by Pencilbitz from 11th Aug to 15th Aug 2024.
 - NPTEL FDP on “Introduction to Internet of Things” organized by NPTEL from July – October 2024.
 - AICTE FDP on “Enhancing Research Capabilities for Career Progression” Conducted by NITTTR from 23rd to 27th September 2024.
 - ATAL FDP on “Cyber Security in AI” at CMR University from 02nd to 07th December 2024.
 - ATAL FDP on “Quantum Computing” at Dhanalakshmi Srinivasan Engineering College from 16/12/2024 to 21/12/2024.

- ❖ Mrs. P.G. Gayathri, AP, Artificial Intelligence and Data Science Department attended
 - FDP on “Research Paper writing and Publication” Organized by Pencilbitz from 11th Aug to 15th Aug 2024.
 - AICTE FDP on “Applied AI: Practical Implementations” under TechSaksham Program from 9th Sep to 13th Sep 2024.
 - FDP on “Outcome based Education and Accreditation process” organized by Curriculum Development Center Department, NITTTR, Chandigarh from 25th to 29th November 2024.
 - ATAL FDP on “Cyber Security in AI” at CMR University from 02nd to 07th December 2024.
 - ATAL FDP on “Quantum Computing” at Dhanalakshmi Srinivasan Engineering College from 16/12/2024 to 21/12/2024.



- ❖ Mrs. S. Ambigai Priya, AP, Artificial Intelligence and Data Science Department attended
 - FDP on “Research Paper writing and Publication” Organized by Pencilbitz from 11th Aug to 15th Aug 2024.
 - ATAL FDP on “Cyber Security in AI” at CMR University from 02nd to 07th December 2024.
- ❖ Mrs. V. Vidhya, AP, Artificial Intelligence and Data Science Department attended
 - FDP on “Research Paper writing and Publication” Organized by Pencilbitz from 11th Aug to 15th Aug 2024.
 - AICTE FDP on “Enhancing Research Capabilities for Career Progression” Conducted by NITTTR from 23.09.2024 to 27.09.2024.
 - ATAL FDP on “Cyber Security in AI” at CMR University from 02nd to 07th December 2024.
- ❖ Mr. M. Mohanraj, AP, Artificial Intelligence and Data Science Department attended
 - FDP on “Research Paper writing and Publication” Organized by Pencilbitz from 11th Aug to 15th Aug 2024.
 - AICTE FDP on “MERN Stack Web development” under TechSaksham Program from 23rd Sep to 27th Sep 2024.
 - AICTE FDP on “Applied AI: Practical Implementations” under TechSaksham Program from 14th Oct to 18th Oct 2024.
 - NPTEL FDP on “Advanced R programming for Data Analytics in Business” organized by NPTEL from July – October 2024.
 - AICTE FDP on “Enhancing Research Capabilities for Career Progression” Conducted by NITTTR from 23rd to 27th September 2024.
 - ATAL FDP on “Cyber Security in AI” at CMR University from 02nd to 07th December 2024.
- ❖ Mrs. M. Vanitha, AP, Artificial Intelligence and Data Science Department attended IEEE sponsored FDP on “Design and Applications of Semiconductor devices” held at Sairam Institute of Technology from 05th to 8th August 2024.
- ❖ Mrs. N. Sarmildevi, AP, Artificial Intelligence and Data Science Department attended
 - AICTE FDP on “Enhancing Research Capabilities for Career Progression” Conducted by NITTTR from 23rd to 27th September 2024.
 - ATAL FDP on “Quantum Computing” at Dhanalakshmi Srinivasan Engineering College from 16/12/2024 to 21/12/2024.

NPTEL

- ❖ Dr. G. Sumathi, ASP, department of Artificial Intelligence and Data Science, completed and Secured Golden Elite in the 12 Week NPTEL Course on “Practical Cyber Security for Cyber Security Practitioners” on Jul to Oct 2024.
- ❖ Dr. G. Sumathi, ASP, department of Artificial Intelligence and Data Science, completed the 12 Week NPTEL Course on “Operating System Fundamentals” on Jul to Oct 2024.
- ❖ Mrs. A. Sangeetha, AP, department of Artificial Intelligence and Data Science, completed and Secured Silver Elite in the 12 Week NPTEL Course on “Introduction to Internet of Things” on Jul to Oct 2024.
- ❖ Mr. M. Mohanraj, AP, department of Artificial Intelligence and Data Science, completed the 12 Week NPTEL Course on “Introduction to Internet of Things” on Jul to Oct 2024.





PATENT

- ❖ Dr. K. BASKAR, HOD of Artificial Intelligence and Data Science apply the design on “Smart Telematics systems for enhanced vehicle communication” on 04th December 2024.

STUDENTS CONTRIBUTION

NPTEL

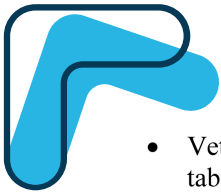
- ❖ 58 students from 2nd year were completed “Introduction to Internet of Things” in NPTEL, July - Oct 2024.
 - 10 students secured Silver Elite
 - 36 students secured Elite
 - 12 students successfully completed
- ❖ Darshwana R S - secured Elite in the NPTEL course “Ethical Hacking”, July-Oct 2024.
- ❖ Darshwana R S - secured Elite in the NPTEL course “Operating System Fundamentals”, July-Oct 2024.

STUDENTS WON IN COMPETITIONS

SPORTS

- ❖ Prasanth N of Final year Student Honored as the best player of the decade 2013 - 2023 and the most promising player in the history of Nilgiris table tennis honored by the general manager ministry of defense. Also won
 - 1st prize In Sastra University Colosseum 13 - National Level Sports Fest - Table tennis held from 10/03/23 to 12/03/2023.
 - 1st prize in district level Table tennis tournament under 21 Boys single.
 - 1st prize in District level CM Trophy Boys Single and Double.
 - 1st prize in District Level Chief Ministers trophy on 19/09/2024 and also won 3rd prize held on 10/10/2024 to 14/10/2024.
 - Prasanth N won 1st prize in table tennis in Anna university zonal, Trichy SRM.
 - Prasanth N won 3rd prize in table tennis, Anna university inter zonal and selected for anna university B team, Chennai Sairam on 09/10/2024
 - Prasanth N won 2nd prize in table tennis, Sastra university colloseum national level sports meet and won 2nd prize in Thanjavur sastra university.





- Vetriselvi S won 1st prize in Table Tennis in women's anna university zone and 2nd prize in women's table tennis, sastra university colloseum, Thanjavur.

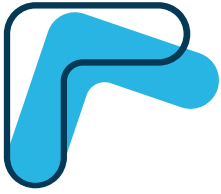


- Karthikeyan M, Sanjay R, Tamilarasan of Final year Students R won 3rd prize in zone level SRM TRP Engineering College on 09/10/2024.
- Parveshmuzaraf R and Sabarish P won 1st prize in Anna University (Trichy Zone) Ball Badminton Men's.



- Sanjay P, Karthikeyan R won 3rd prize in squash interzone level on 8th November 2024





TECHNICAL EVENTS

- N. Gokul krishnan, V. Lakchaya and S. Dhivyashree won First Prize in Paper presentation organized by K.S.R. College of Engineering on 27th Sep 2024.
- N. Aishwarya, R. Sudharsana, K. Sakthivelan and R. Mahesh won third prize in Hackathon organized by Erode Sengundhar Engineering College.
- Dharshini S won First Prize in Paper presentation organized by K.S.R. College of Engineering on 27th Sep 2024.
- S. Kirthika and K. Manisha won 2nd prize in Paper presentation organized by K.S.R. College of Engineering on 27th Sep 2024.
- Gokul M & Bala Ganesh S won the 3rd Prize in code quest organized by KCG college of engineering and technology 4th OCT 2024.
- S. Shanmugapriya and A. Sowmiya won the First Prize in Paper presentation organized by Annapoorna Engineering College (Autonomous) on 8th OCT 2024.
- S. Hareini won the First Prize in Technical Event organized by Vellalar College for Women (Autonomous) on 9th OCT 2024.
- Gokul. S and Sudharsana. R won First Prize in Paper presentation organized by Mount Zion College of Engineering and Technology, Pudukottai on 16th OCT 2024.
- Vignesh. R won 2nd Prize in figma Designing organized by Mount Zion College of Engineering and Technology, Pudukottai on 16th OCT 2024.
- Pranesh K R won 2nd prize in Project presentation organized by Mahendra College of Engineering on 18th OCT 2024.
- Gokul M and Vignesh R won Second prize in UI/UX design organized by J.J college of Engineering and Technology 19th OCT 2024.
- Bala Ganesh S won First prize in Debugging organized by J.J college of Engineering and Technology 19th OCT 2024.





- SUDARSHANA R - தி மு க இளைஞர் அணி நடத்திய "என் உயிரினும் மேலான " மாநில அளவு பேச்சு போட்டியின் இறுதி சுற்றில் தமிழக முதல்வர் திரு.மு.க ஸ்டாலின் அவர்களிடம் பாராட்டு மாற்றும் துணை முதலமைச்சர் திரு.உதயநிதி ஸ்டாலின் அவர்களிடம் பாராட்டு சான்றிதழ் பெற்ற தருணம். (27.10.2024)



- Sabari Kameswaran S, Shaunak J, Prashanth N, Won Theme Wise Best Team Awards for Sports and Health Theme in ISSF 2024 held at IIT Guwahati, Assam.

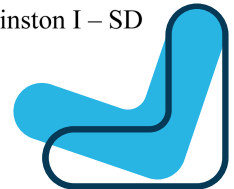


☀ PAPER PRESENTATION BY THE STUDENTS

12 Students from 3rd year and 24 Students from 2nd year presented a paper presentation in other colleges.

☀ INTERNSHIP

- Selva S - NXTLOGIC Software Solutions, Coimbatore.
- Bala Ganesh S- UZUNZIP Technologies, Tiruchirappalli.
- Ajay Suriya - GK CREATIONS, Sivakasi.
- Sudharshana R, Dharshini R, Dharshini S - SDLC
- Harish Ragavendhar N, Mohammed Sathik Z, Dharun M, Thamil Selvan D, Abishek Winston I – SD PROSOLUTIONS, Tiruchirappalli.





- Gokulnath M, Arjun C, Manjunath R, Deepak S, Harish K – NOVITECH, Coimbatore.
- Dhayanandhan RB, Thamizharasan P, Naresh N, Sanjay P, Santhosh Kumar T- AIVERZ Technologies, Tichy.
- Logeshwaran S, Sharvesh R, Sandhiya R, Manisha K, Sasireka S, Pranesh K R, Gokul Krishnan N, Vinothini N, Arun Kumar B, Lakchaya V, Sakthivelan K – INFOEM, Namakkal.
- Sajitha N, Hariharasudhan N, Delkwoshiyasri N M, Swathi S, Harish V, Praveen T, Dhivyashree S, Aishwariya N, Kiruthika - SGR SOFT TECH, Tiruchirappalli.
- Manibharathi C, Moses Saveriyar A, Basheer Ahmed M, Manoj S - TECHCMANTIX Technologies, Tiruchirappalli.
- Madhan Meths S - ZTECH 10R SYS, Chennai.
- Kavin S, Sabarishdeva R S, Somnath P, Karthikeyan R, Prakash T, Dharnishan M - SAMCORE Solution, Tiruchirappalli.
- Gokul S, Suriya Prakash S. Sivakumar P, Govidharan C, Gokul M, Mahesh R- VPRS Solution, Pudukkottai.
- Jai Atchuthan G, Roshan Kumar S – Databels, Tiruchirappalli.
- Mythili S, Vetriselvi S, Harshapradha N S – SYSWAY, Thanjavur.
- Anupriya A - LITZ Tech, Coimbatore.
- Rakesh V – NIIT, Vellore.
- Muralitharan P - SPOT LIGHT.
- Vignesh R – WTILTH, Madurai.



INDUSTRIAL VISIT

- 68 Students from 2nd Year went to KGISL Micro College in Coimbatore at 16th August 2024.
- 67 Students from 3rd Year went to Dot Com Infoway in Madurai at 16th September 2024.



SEMINAR / WORKSHOP

- 63 Students from 2nd year, 8 Students from 3rd year and 11 Students from 4th year of Artificial Intelligence and Data Science attended Seminar.
- 33 Students from 2nd year and 4 Students from 3rd of Artificial Intelligence and Data Science attended workshops.



HACKATHON / PROJECT CONTEST

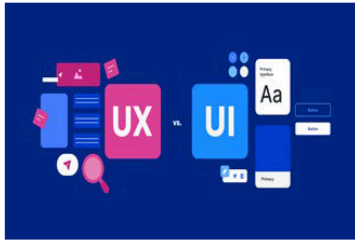
- 10 Students from Final year, 10 Students from Third year and 01 Student from Second year attended Hackathons conducted by other colleges.
- 12 Students from Final year and 04 Students from Third year attended Project Contest conducted by other colleges.





☀ UI / UX

UI refers to the screens, buttons, toggles, icons, and other visual elements that you interact with when using a website, app, or other electronic device. UX refers to the entire interaction you have with a product, including how you feel about the interaction.



There is AI that can help UX designers, who are often more concerned with usability and functionality rather than aesthetics, to incorporate user interface (UI) elements to add color, logos, and typography to their designs. AI can help designers choose the right colors or typefaces to elevate their creations.

☀ HUMAN COMPUTER INTERACTION

Human-computer interaction (HCI) is a multidisciplinary field that focuses on how people interact with computers and how to design computer interfaces to improve that interaction. Human-computer



interaction (HCI) and artificial intelligence (AI) are often combined to create interactive systems that improve user experience.

HCI is the study of how to design computer interfaces that optimize how users interact with computers. AI is a computer program that can perform tasks that typically require human intelligence.

☀ MULTIMODEL AI



Multimodal AI is a type of artificial intelligence (AI) that can process and integrate multiple types of data, such as images, videos, text, sounds, and more. This allows multimodal AI to perform more complex tasks and make more accurate predictions than unimodal AI systems, which only rely on one type of data.

Multimodal AI can improve user experiences by making interactions feel more natural and intuitive. For example, a user can upload a photo or audio clip to troubleshoot a problem, instead of having to explain it.





☀️ **Agentic AI**

Agentic AI marks a significant shift from reactive to proactive AI. AI agents are advanced systems that exhibit autonomy, proactivity and the ability to act independently. Unlike traditional AI systems,



which mainly respond to user inputs and follow predetermined programming, AI agents are designed to understand their environment, set goals and act to achieve those objectives without direct human intervention.

For example, in environmental monitoring, an AI agent could be trained to collect data, analyze patterns and initiate preventive actions in response to hazards such as early signs of a forest fire.

Likewise, a financial AI agent could actively manage an investment portfolio using adaptive strategies that react to changing market conditions in real time.

☀️ **Shadow AI**



As employees across job functions become interested in generative AI, organizations are facing the issue of shadow AI: use of AI within an organization without explicit approval or oversight from the IT department. This trend is becoming increasingly prevalent as AI becomes more accessible, enabling even nontechnical workers to use it independently.

Shadow AI typically arises when employees need quick solutions to a problem or want to explore new technology faster than official channels allow. This is especially common for easy-to-use AI chatbots, which employees can try out in their web browsers with little difficulty -- without going through IT review and approval processes.





Kongunadu
College of Engineering & Technology
[Autonomous]

Namakkal - Trichy Main Road, Thottiam, Trichy (DT) - 621 215, Tamilnadu
Mob: 80125 05000, 80125 05011, 80980 00852 | email: admissions@kongunadu.org
www.kongunadu.ac.in

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.

Volume03 | Issue01 | Dec 2024

Department of Artificial Intelligence and Data Science