



Kongunadu
College of Engineering & Technology
[Autonomous]



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

Namakkal - Trichy Main Road, Tholurpatti (P.O.), Thottiyam (TK), Trichy (Dt.) - 621 215.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CELESTA - NEWSLETTER

HoD Message :



Department of Computer Science & Engineering commits to work towards developing Engineers with a rich blend of competent, technical, managerial and social skills and contribute to nation building. Department places emphasis on all the important aspects of computers

such as Computer Networks, Mobile Communication, Algorithm Design, Operating System, Advanced Database Systems, Theory of Computation, Computer Graphics and many more.

Department takes the initiative to improve the soft skills, analytical capabilities and verbal communication of the students so that they can face the competition in the corporate world confidently. To meet the objectives, the department pays special emphasis on teaching and hands-on practical work. Students exhibit their innovative ideas, skills and potentials as final year projects and have won many awards at University level.

The excellent infrastructure, experienced team of faculty dedicated to strengthening effective teaching learning processes ensures quality education.

We believe that this approach to teaching-learning, coupled with practical experience gained during Industrial Training in reputed organizations, equips our students to handle the challenges posed by the IT industry. Students of Computer Science and Engineering are placed with top IT companies.

We as a team resolve to take the Department to heights of success and glory and prepare for the forth coming challenges.

Dean (R&D) Message:



The College has made tremendous progress for the betterment of students in all areas of academic, placements and research. This newsletter displays a clear picture of all of a Department's operations and helps students and teaching faculty to strengthen their innovative skills through various cells and club activities by actively participating in Hackathons, Conferences, association activities and Symposiums.

A large percentage of our activities are focused on developing soft skills, technical knowledge and research opportunities for students and finding new ways to connect them with faculty and one another, enriching and deepening their educational experience for better placements, to do higher studies and to become entrepreneurs.

I commend the Editorial Board of this Newsletter for their outstanding efforts in completing this newsletter. I express my deep sense of appreciation to the Head of the Department under whose guidance this Technical work has been undertaken and completed within a stipulated time. Also my heartfelt Congratulations to faculty members and students for their fruitful efforts.

Editorial Board :

Chief Editors :

- ◆ Dr. J.Yogapriya, Dean (R&D), Professor/CSE
- ◆ Dr. C.Saravanabhavan, Professor/HoD

Executive Editors :

- ◆ Dr. S.Dhanabal, ASP/ CSE
- ◆ Dr.P.Preethi, AP/CSE
- ◆ Mrs. L.Nivetha, AP/ CSE

Student Editors :

- ◆ Mr. Janesh M - Final Year CSE
- ◆ Ms. Keerthana S - Final Year CSE
- ◆ Mr. Barath S - Third Year CSE
- ◆ Ms. Vijayakirubhagiri K - Third Year CSE
- ◆ Ms. Jeevitha R - Second Year CSE
- ◆ Mr. Tamil M - Second Year CSE

CONTENTS

- College Vision/Mission
- Department Vision/Mission
- Department Activities
- Department Achievements
- Staff as a Resource Person
- IPR
- Internship Details
- Placement Details

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 competent software professionals, academicians, researchers and entrepreneurs with moral values through quality education in the field of Computer Science and Engineering.

MISSION

- Enrich the students' knowledge and computing skills through innovative teaching-learning process with state-of-art-infrastructure facilities.
- Endeavour the students to become an entrepreneur and employable through adequate industry institute interaction.
- Inculcating leadership skills, professional communication skills with moral and ethical values to serve the society and focus on students' overall development.

PROGRAM EDUCATIONAL

❖ **PEO I :** Graduates shall be professionals with expertise in the fields of Software Engineering, Networking, Data Mining and Cloud computing and shall undertake Software Development, Teaching and Research.

❖ **PEO II :** Graduates will analyze problems, design solutions and develop programs with sound Domain Knowledge.

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

PROGRAM SPECIFIC OUTCOMES

❖ **PSO 1 : Professional skills :** Students shall understand, analyze and develop computer applications in the field of Data Mining/Analytics, Cloud Computing, Networking etc., to meet the requirements of industry and society.

❖ **PSO 2 : Competency :** Students shall qualify at the State, National and International level competitive examination for employment, higher studies and research.

PROGRAM OUTCOMES (PO's)

1. **PO-1 : Engineering knowledge :** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. **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.

3. **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.

4. **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.

5. **PO-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. **PO-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. **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.

8. **PO-8 : Ethics :** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **PO-9 : Individual and team work :** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **PO-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. PO-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. PO-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

- Webinar on "Performance Testing" was organized for other college students on 7th May 2022. The chief guest was Mr.S. Arun, Tata Consultancy Services, Chennai.

- Webinar on 'System Applications, products in data processing' was organized on 09th April 2022. The resource person was Mr.C. Ganasridhar, Trainee, Tata Consultancy Services, Chennai.

- Workshop on 'Fundamentals of Deep Learning' was organized on 9th April 2022. The resource person was Mr.V.Chandran NVIDIA Certified Instructor for Deep learning, Chennai.

- Webinar on "Introduction to NO SQL Databases" was organized for Second year CSE students on 2nd April 2022. The chief guest was Mr.N.Vigneshwaran, WRKSPORT Technologies India Pvt Ltd, Chennai

- Webinar on 'Opportunities in Media Field' was organized on 26th March 2022. The resource person was Mrs.J.Padmapreethi, SDNB Vaishnav College for Women Chrompet Chennai.

- Webinar on "Spring Boot Bootcamp" was organized for 2nd year CSE students on 19th March 2022. The chief guest was Mr.R.Rajeswaran, HCL Technologies India Pvt Ltd, Bangalore.

Department of Computer Science and Engineering Conduct an Internal Hackathon on 4th and 5th March 2022.

- Webinar on "Critical Thinking and Effective Decision Making" was organized for 2nd year CSE & IT students on 25th February 2022. The chief guest was Dr.K.Arul, Head Logistics and Supply Chain, Chennai.

- Webinar on 'Applications of Data Structures and Algorithms in Real time Applications' was organized on 29th January 2022. The resource person was Mr.ARJ.Kumar, Vaken Technologies, Trichy.

- Webinar on "Importance of Data Analytics and Business Intelligence" was organized for Second year CSE students on 22nd January 2022. The chief guest was Dr.K.Vengatesan, Professor / CSE Sanjivani College of Engineering, Maharastra. (Institution Innovation Cell).

- Webinar on "Industrial Requirements from Fresher's and Current Trends in IT Industry" was organized for Third year CSE students on 31st December 2021. The chief guest was Mr.P.Vinothpandian, Tata Consultancy Services, Chennai. (Institution Innovation Cell)

- Faculty Development Programme on 'Bigdata System Trends in Data Engineering and Analytics' was organized on 3rd and 4th December 2021.

Programme Conducted by the Department (Conference/Workshop/Seminar/FDP/Guest Lecture/Training/Webinar/Others)

Seventh National Conference on Innovations in Computing and Communications Technology was organized on 8th April 2022.

Second International Conference Innovations in Electrical, Information and Communication Engineering [Virtual Conference] (ICIEICE'21) on Smart Data Intelligence was organized on 11th & 12th April 2022. The Resource person was Dr.R. Asokan, Principal, Kongunadu College of Engineering and Technology.

 Value Added Course
Python Programming
Advanced java

Staff Contributions Staff Achievements and Awards

Dr.J.Yogapriya, Dean (R&D), Professor, Computer science and Engineering was awarded as winner in the subtheme of "Women Entrepreneurship" by Presenting unique intervention carried out under the theme "Women Empowerment" for the year 2022 by All India Council for Technical Education, New Delhi.



Dr.P.Preethi Assistant Professor, Computer science and Engineering was awarded as Best Faculty by Novel Research academy, Puducherry, India for the academic year 2021-2022

Mr.K.Anguraju, Assistant Professor was conferred a special recognition under CISCO five year active participation and dedicated service in networking academy for the year 2022 by CISCO Networking Academy

Staff as a resource person

Dr.J.Yogapriya, Dean (R&D), Professor, Computer science and Engineering department gave a lecture on 'Process Design and Development' at Chevalier T.Thomas Elizabeth College for Women on 16th March 2022.

Dr.J.Yogapriya is acted as session chair in 12th International Conference on Advances in Computer Engineering - ACE 2022 on 29th May 2022, which is organized by the Association of Computer Electrical Electronics and Communication Engineers (ACEECom)-a division of The IDES, Grenze Scientific Society, Trivandrum, India

KIC Activities

1. KIC in association with Department of Computer Science and Engineering celebrated a "National Science Day" and organized a webinar on "Commercial Ventures in Plant Tissue Culture" on 22nd June 2022.

2. KIC in association with Department of Computer Science and Engineering conducted an IIC Calendar activity of online Workshop on "Intellectual Property Rights (IPRs) and IP Management for Start-up" on 12th April 2022.

3. KIC in association with Departments of Computer Science and Engineering conducted an IIC Calendar activity titled "Pitching Event for Ideas Scouted & linkage with Innovation Ambassadors for mentorship support" from 15th October 2021 to 28th February 2022.

4. KIC in association with Departments of Computer Science and Engineering conducted an IIC Calendar activity titled "Pitching Event for PoCs developed & linkage with Innovation Ambassadors for mentorship support" from 15th October 2021 to 28th February 2022.

Book Chapter

Dr.R.Asokan, Dr.E.Punarselvam, Dr.P.Preethi, Mr.C.Radhakrishnan & Mr.K.Karthick, paper Entitled "Automated Epileptic Seizure Classification model using Adaptive Genetic Autoencoder" in the Edited Book Title "Machine Learning Applications in Health Care", Immortal Publications, May 2022.

Publication in Journals by Staff

- J.Yogapriya, C.Saravanabhavan, B.Elakkiya, V.Chandran, "BRECNET: Breast Cancer Network for Histopathology Images Classification using Convolution Neural Network", Journal of Algebraic Statistics, Vol. 13 No. 2 (2022), Page no:329-342.

- J.Yogapriya, V.Chandran, M.G.Sumithra, B.Elakkiya, A.Shamila Ebenezer, Automated Detection of Infection in Diabetic Foot Ulcer Images Using Convolutional Neural Network, Journal of Healthcare Engineering, Vol.2022, April 2022, Article ID 2349849, Page No.1-12, <https://doi.org/10.1155/2022/2349849>

- J.Yogapriya, Preetha.J, B.Elakkiya, V.Chandran and Krishna Prakash.R, "Early Diagnosis of COVID19 Disease Using Deep Convolutional Neural Network Model", Stochastic and Modelling Applications, Volume 26, Issue No.3, Pages 253-263, 2022.

- J.Yogapriya, V.Chandran, Sumithra.M.G, Anitha.P, Gastrointestinal Tract Disease Classification from Wireless Endoscopy Images Using Pretrained Deep Learning Model, Computational and Mathematical Methods in Medicine, Vol.2021, September 2021, Article ID 5940433, Page No.1-12, <https://doi.org/10.1155/2021/5940433>

- P.Preethi, R.Asokan, R.Thillaiarasu, N.Saravanan, An Effective Digit Recognition Model Using Enhanced Convolutional Neural Network Based Chaotic Grey Wolf Optimization, Journal of Intelligent & Fuzzy Systems, Vol. 41, no. 2, Page No.3727-3737.2021 DOI: 10.3233/JIFS-211242

- C.Saravanabhavan, Ms.T.Gangalakshmi, P.Ashok, Dr.N.Krishnaveni and N.Gopinath 2021 'Preserving Privacy Using Enhanced Shadow Honeypot Algorithm For Data Retrieval InCloud Computing' Journal of Design Engineering, ISSN: 0011-9342, Issue 6, pp. 6166- 6173.

- Mrs.S.Dhivya 'A Rectangular Patch Linear 2X2 Array MSPA for IEEE p 802.11 Application' 2021, in 3rd International Conference on Signal Processing and Communication (ICPSC), <https://doi.org/10.1109/ICSPC51351.2021.9451723>

- Mr.R.Krishna Prakash, Balakumar.I, Naveen.M and Siva Sakthi.T 'Automatic Number Plate Recognition using YOLO Algorithm' International Journal of Innovative Science, Engineering and Technology, ISSN(Online): 2348 - 7968, Vol.9, special issue May 2022.

- Gowtham.S, Jeevanath.D, Naveen.S, Siva.M & Mr.K.Karthick 'Amyotrophic Lateral Sclerosis Chatter Using Super Imposition Based Augmented Reality' - International Journal of Innovative Science, Engineering & Technology, ISSN: 2348 - 7968, Vol.9, May 2022.

- Karthikeyan.S, Mohamed Yousuf, Ramanan.N, Nivetha.L 'Random Interval Query and Face Recognition Attendance System for Virtual Classroom using Deep Learning' - International Journal of Innovative Science, Engineering & Technology, ISSN: 2348 - 7968, Vol.9, May 2022.

Publication in Conference by Staff

- Dr.C.Saravanabhavan Mr.R.Premkumar, M.A.Swedhaa 'Disease detection and Classification from Tree Leaves using Deep Learning Algorithm' Virtual International Conference on 'Technological Advancement in Computers and Communication' at Adhiparasakthi Engineering College, Melmaruvathur 1st June 2022.

- S.Sangeetha, B.Umarani, K.Baskar & S.Dhanabal 'Handwritten Digits Recognition from Images using Serendipity and Orthogonal Schemes' 2nd International Conference on 'Advance Computing and Innovative Technologies in Engineering' held at Galgotias College of Engineering & Technology, Grater Noida on 28th & 29th April 2022.

- R.Abinaya, M.Priyanka, M.Prithika & K.Baskar 'Credit Card Transaction using Face Recognition Technology' 2nd International Conference on 'International Conference on 'Emerging Trends in Communication, VLSI and Signal Processing' held at JJ College of Engineering and Technology, Tichy on 25th March 2022.

- Mr.C.Radhakrishnan, 'Secure Practical Authentication Scheme Using Color Code Pin Verification on Online Banking' International Conference on 'Current Trends in Computing, Network Communications and Data Science' held at Periyar Maniammai Institute of Science & Technology, Thanjavur on 30th March 2022 & 31st March 2022.

- Mr.C.Radhakrishnan, Mr.K.Karthick & Dr.R.Asokan 'Fragmentation based Hybridized Encryption Scheme for Cloud Environment' International Conference on 'Advance Computing and Innovative Technologies in Engineering' held at Galgotias College of Engineering and Technology, Noida on 28th & 29th April 2022.

- Mr.C.Radhakrishnan, Dr.R.Asokan & Mrs.L.Nivetha 'Digital Smart Vehicle System using IoT' International Conference on 'Emerging Trends in Science Technology and Applications' held at Sree Sakthi Engineering College, Coimbatore on 27th & 28th May 2022.

- V.Sathya, Dr.S.Dhanabal, & K.Anguraju "Back Propagation Neural Network Algorithm for Type 1 and Type 2 Diabetics Predication" on Virtual International Conference on Technological Advancement Computer and Communication (ICTACC 22) held at Adhiparasakthi Engineering College, Kanchepuram 1st June 2022.

- Dr.S.Dhanabal, "Food Quality Checking and Scanning System using Machine Learning with Block chain Framework" paper Presented in national Conference on Innovations in Information and Communication Technology at Bannari Amman Institute of Technology, Tamilnadu 8th April 2022.

- Dr.S.Dhanabal, "Digital Currency in Electronic Payment using Blockchain Technology" paper Presented in national Conference on Innovations in Information and Communication Technology at Bannari Amman Institute of Technology, Tamilnadu 8th April 2022.

- Mr.R.Premkumar, J.Jeevitha, J.Samyuktha, and A.Birundha, 'Detection of Fake News in Social Media using Block Chain Technology' National Conference on 'Innovations in Information and Communication Technology' at Bannari Amman Institute of Technology, Sathyamangalam 8th April 2022.

- Mr.R.Premkumar, Akash.M, Hariharan.A, Sujitha.V and Gobikrishnan.T 'Duplicated Cloud Storage System For Secure Watchword Protected Coding Key' International Conference on 'Current Trends in Computing, Network Communication and Data Science' at Periyar Maniammai Institute Of Science & Technology, Thanjavur 30th and 31st March 2022.

PAPER PRESENTED & PROGRAMME ATTENDED BY THE STAFF (WEBINAR / WORKSHOP / FDP / TRAINING / OTHERS)

- Dr.K.Baskar, ASP, of Computer Science and Engineering department attended Webinar on 'Strategies to Enhance Communicative Competence' held at Arasu Engineering College, Cumbakonam on 3rd February 2022.

- Dr.K.Baskar, ASP, of Computer Science and Engineering department attended Webinar on 'Deep Learning Approach for Medical Image Analysis' held at Saveetha School of Engineering, Chennai on 23rd February 2022.

- Dr.K.Baskar, ASP, of Computer Science and Engineering department attended FDP on 'Image Processing and Computer Vision' held at Bharathiyar Institute of Engineering for Women, Aathur from 28th February 2022 to 04th March 2022.

- Dr.K.Baskar, ASP, of Computer Science and Engineering department attended Seminar on 'Optimization and Modeling Innovation for Solving Scientific Problems' held at Nandha College of Technology, Erode on 20th May 2022 to 21st May 2022.

- Dr.K.Baskar, ASP, of Computer Science and Engineering department attended Webinar on 'Graphics and Algorithms' held at SIMATS School of Engineering, Thandalam on 26th May 2022.

- Dr.K.Baskar, ASP, of Computer Science and Engineering department attended Webinar on 'Cloud Computing – Tools, Technologies and Research Growth' held at SIMATS School of Engineering, Thandalam on 27th May 2022.

- Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Faculty Development Program on 'Big Data System Trends in System Engineering and Analytics' held at Kongunadu College of Engineering and Technology, Thottiam on 3rd December 2021 & 04th December 2021.

- Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Webinar on 'Strategies to Enhance Communicative Competence' held at Arasu Engineering College, Kumbakonam on 3rd February 2022.

- Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Workshop on 'Research Paper Writing' held at MIT Campus, Anna University, Chennai from 07th February 2022 to 09th February 2022.

- Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Webinar on 'Deep Learning Approach for Medical Image Analysis' held at Saveetha School of Engineering, Chennai on 23rd February 2022.

- Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Seminar on 'Biotechnological Applications Using Fiber-Optic sensors' held at Kongunadu College of Engineering and Technology, Thottiam on 12th March 2022.

- Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Five days Faculty Development Program on 'Image Processing and Computer Vision' held at Bharathiyar Institute of Engineering for Women, Salem from 28th February 2022 to 04th March 2022.

- Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended NAAC Sponsored Seminar on 'Revised Assessment and Accreditation Framework of NAAC: Understanding and Opportunities in HEIs' held at Kongunadu College of Engineering and Technology, Thottiam on 06th May 2022 & 07th May 2022.

- Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Webinar on 'Graphics and Algorithms' held at SIMATS School of Engineering, Chennai on 26th May 2022.

- Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Webinar on 'Cloud Computing – Tools, Technologies and Research Growth' held at SIMATS School of Engineering, Chennai on 27th May 2022.

- Mr.K.Karthick, AP, of Computer Science and Engineering department attended Webinar on 'Cloud Computing – Tools, Technologies and Research Growth' held at SIMATS School of Engineering, Chennai on 27th May 2022.

- Mr.K.Karthick, AP, of Computer Science and Engineering department attended Webinar on 'Strategies to Enhance Communicative Competence' held at Arasu Engineering College, Kumbakonam on 3rd February 2022.

- Mr.K.Karthick, AP, of Computer Science and Engineering department attended Faculty Development Program on 'Big Data System Trends in System Engineering and Analytics' held at Kongunadu College of Engineering and Technology, Thottiam on 3rd December 2021 & 04th December 2021.

- Mr.K.Karthick, AP, of Computer Science and Engineering department attended Five days Faculty Development Program on 'Image Processing and Computer Vision' held at Bharathiyar Institute of Engineering for Women, Salem from 28th February 2022 to 04th March 2022.

- Karthikeyan.S, Mohamed Yousuf, Ramanan.N, Nivetha.L, 'Random Interval Query and Face Recognition Attendance System for Virtual Classroom using Deep Learning' National Conference on 'Inventive system and control Technologies NCISCT' held at Arasu Engineering College, Kumbakonam on 6th & 7th April 2022.

- Devendhran, Ragul.G, Shibi.N.K, Sriram.A, Nivetha.L, 'Stress Reduction Using Interactive Generative Art via vanilla Java Script 'International Conference on 'Current Trends in Computing , Network Communications and Datascience' held at Periyar Maniyammai Institute of Science and Technology on 30th & 31st March 2022.

- Dr.S.Dhanabal, ASP, of Computer Science and Engineering department attended Webinar on 'Cloud Computing – Tools, Technologies and Research Growth' held at SIMATS School of Engineering, Thandalam on 27th May 2022.

- Dr.S.Dhanabal, ASP, of Computer Science and Engineering department attended Webinar on 'Deep Learning Approach for Medical Image Analysis' held at Saveetha School of Engineering, Chennai on 23rd February 2022.

- Dr.S.Dhanabal, ASP, of Computer Science and Engineering department attended Webinar on 'Strategies to Enhance Communicative Competence' held at Arasu Engineering College, Cumbakonam on 3rd February 2022.

- Dr.S.Dhanabal, ASP, of Computer Science and Engineering

- Attended 5 days Faculty Development Programme on Real time Problems and solutions with AI & ML using R Programming at AICTE Training and learning Academy from 6th to 10th December 2021

- Attended 2 days Faculty Development Programme on BigData System Trends in Data Engineering and Analytics at Kongunadu College of Engineering and Technology on 3rd and 4th December 2021.

- Mrs.P.Mounica AP of Computer Science and Engineering department attended Workshop on 'Accelerated AI for computer vision, Speech and NLP' held at PSG college of technology, Coimbatore on 4th and 5th March 2022.

- Mrs.P.Mounica AP of Computer Science and Engineering department attended Webinar on 'the essentials of CCNA: Master the latest principles program' held at Net Com learning on 24th February 2022.

- Mr.R.Premkumar, AP, of Computer Science and Engineering department attended Webinar on 'Cloud Computing – Tools, Technologies and Research Growth' held at SIMATS School of Engineering, Thandalam on 27th May 2022.

- Mr.R.Premkumar, AP, of Computer Science and Engineering department attended Webinar on 'Graphics and Algorithms' held at SIMATS School of Engineering, Thandalam on 26th May 2022.

- Mr.R.Premkumar, AP, of Computer Science and Engineering department attended Webinar on 'Deep Learning Approach for Medical Image Analysis' held at Saveetha School of Engineering, Chennai on 23rd February 2022.

- Mr.R.Premkumar, AP, of Computer Science and Engineering department attended Webinar on 'Strategies to Enhance Communicative Competence' held at Arasu Engineering College, Kumbakonam on 3rd February 2022.

- Mr.R.Premkumar, AP, of Computer Science and Engineering department attended Webinar on 'Quality Metrics in Research' held at Vellore Institute of Technology, Chennai, on 24th February 2022.

- Mr.K.Anguraju 'Intrusion Detection in Automotive Ethernet Network Using Deep Convolutional Neural Networks ' International Conference on 'Galgotias College of Engineering and Technology, Greater Noida, 28th & 29th April 2022.

- Mr.K.Anguraju 'Preserve sharing of medical robustness testimony using two cloud architecture' National Conference on 'Bannari Amman Institute of Technology, Erode, 8th April 2022.

- Mr.K.Anguraju 'Augmented Reality Education Tacit to Teach Kids Using Unity and Vuforia' International Conference on 'JJ College of Engineering and Technology, Trichy, 25th March 2022.

- Mr.K.Anguraju 'Strengthening of Academics using E-Resources' National Conference on 'Azad Mahavidyalaya, Ausa, 16th November 2021.

- Mr.K.Anguraju 'Bigdata Systems Trends in Data Engineering and Analytics' Faculty Development Program on 'Kongunadu College of Engineering and Technology, Trichy, 3rd and 4th December 2021.

Students Contribution

NPTEL Completed

NPTEL Course on 'Introduction to Programming in C 'was completed by Third year Computer science and Engineering Students during Jan to April 2022

- S Barath - 83% (Elite + Silver)
- A Mowlidharan - 70% (Elite)

Students Won in Competitions (Curricular / Extra Curricular Activities)

P.Revathi of Second year Computer Science and Engineering department won Runner in Throwball organized by Kongunadu College of Engineering and Technology, Trichy on 2022 Academic Year.

P.Revathi, S.Balayukesh, R.Hari Prasath of II year Computer Science and Engineering department won Winner in Volley Ball organized by Kongunadu College of Engineering and Technology, Trichy on 2021-2022 Academic Year.

Extra-Curricular:

S.Venkatesh, P.Shankar & R.Gokul Krishnan of Second Year Computer Science and Engineering department won First in Paper Presentation Organized by Bannari Amman Institute of Technology, Sathyamangalam on 14th November 2021.

R.Hema, K.Bharathi, J.Arun kumar, N.Agatheshwaran of Second Year Computer Science and Engineering department won First in Hackathon in Bitwhackers Hackathon by Kongunadu College of Engineering and Technology, Trichy on 18th March 2022.

Bharath.S of Third year Computer Science and Engineering department won first in Paper presentation organized by Amrita Vishwa Vidyapeetham, Chennai on 9th April 2022.

Subashini.P of Third year Computer Science and Engineering department won Third in Photography organized by Kongunadu College of Engineering and Technology, Trichy on 7th May 2022.

Dharun.S of Third year Computer Science and Engineering department won Second in Spotify Me by M.Kumarasamy College of Engineering, Karur on 7th April 2022.

Sathyanath P of Third year Computer Science and Engineering department won Third in HackWIE 2.0 by Maharaja Surrajmal Institute of Technology, Delhi on 13th to 15th April 2022.

Dharshini.S of Third year Computer Science and Engineering department won Third in Hackathon by Kongunadu College of Engineering and Technology, Trichy on 4th & 5th March 2022.

Arunkumar.K.J of Third year Computer Science and Engineering department won Third in Bitwise Hackathon by Kongunadu College of Engineering and Technology, Trichy on 18th March 2022.

Srividya.R.J of Third year Computer Science and Engineering department won Third in Technical Quiz by Kongunadu College of Engineering and Technology, Trichy on 12th & 13th March 2022.

Publication in Journals by Students

Dhivagar.R, Janesh.M, Kathirvel.T, Sridhar.R, and Dr.C.Saravanabhavan 'Agriculture Doctor Crop Analysis using Deep Learning Algorithm Techniques' International Journal of Innovative Science, Engineering and Technology, ISSN (Online): 2348 – 7968, Vol.9, special issue May 2022.

Karthikeyan.S, Mohamadyousuf.I, Ramanan.N and Mrs.L.Nivetha 'Random Interval Query and Face Recognition Attendance System for Virtual Classroom using Deep Learning' International Journal of Innovative Science, Engineering and Technology, ISSN(Online): 2348 – 7968, Vol.9, special issue May 2022.

Gowtham.S, Jeevanath.D, Naveen.S, Siva.M, and Mr.K.Karthick 'Amyotrophic Lateral Sclerosis Chatter using Super Imposition based Augmented Reality' International Journal of Innovative Science, Engineering and Technology, ISSN(Online): 2348 – 7968, Vol.9, special issue May 2022.

Balakumar.I, Naveen.M, Siva Sakthi.T and Mr.R.Krishna Prakash 'Automatic Number Plate Recognition using YOLO Algorithm' International Journal of Innovative Science, Engineering and Technology, ISSN(Online): 2348 – 7968, Vol.9, special issue May 2022.

Publication in Conference by Students

Y.Vahidha Babu 'Image Processing technique for tropical cyclone intensity detection using Deep Learning Algorithm' International virtual Conference on 'Innovative Research in Power and Energy Engineering 2.0' at Arasu Engineering College, Kumbakonam 18th May 2022.

M.A.Swedhaa & V. Sathya 'Model for AI Security Cyber Threat Detection based on ANN' Virtual International Conference on 'Recent Advances in Electrical Electronics Computer and Communication Technologies' at JP College of Engineering, Chennai 20th May 2022.

E.Madhumitha, Dr.J.Yogapriya 'Gastrointestinal Tract Disease Prediction using Deep Learning Techniques' Virtual International Conference on 'Recent Advances in Electrical Electronics Computer and Communication Technologies' at JP College of Engineering, Chennai 20th May 2022.

V.Dhanalakshmi, Dr.J.Yogapriya, Mrs.P.Mounica 'Pulmonary Lope based Covid – Disease Predication using Deep Learning Techniques' Virtual International Conference on 'Technological Advancement in Computers and Communication' at Adhiparasakthi Engineering College, Melmaruvathur 1st June 2022.

G.Arun, Mr.C.Radhakrishnan, Mrs.L.Nivetha 'Digital Smart Vehicle System using IOT' International Conference on 'Emerging Trends in Science Technology and Applications' at Sree Sakthi Engineering College, Coimbatore 27th and 28th May 2022.

C.Vishnu Bagavath, D.Dheenadayalan, R.Anbuselvam, N.Praveen & Dr.J.Yogapriya 'Virtual Assistant Chatbot for Government Schemes' National Conference on 'Innovations in Information and Communication Technology' at Bannari Amman Institute of Technology, Sathyamangalam 8th April 2022.

A.Sarumathy, B.Abarna, 'Food Quality Checking and Scanning System using Machine Learning with Block Chain Framework' National Conference on 'Innovations in Information and Communication Technology' at Bannari Amman Institute of Technology, Sathyamangalam 8th April 2022.

T.Dheepa, S.Hemalakshmi, N.Meena, and V.Soundharya Lakshmi 'Futuristic Face Recognition based COVID Non - vaccination Population Finder and Alert System' International Conference on 'Communication, Computation, Control and Automation' at Sri Ramakrishna Institute of Technology, Coimbatore 7th and 8th April 2022.

R.Poomani, R.Hemalatha, and R.Rubavathi, 'Preserve Sharing of Medical Robustness Testimony using two Cloud Architecture' National Conference on 'Innovations in Information and Communication Technology' at Bannari Amman Institute of Technology, Sathyamangalam 8th April 2022.

J.Jeevitha J.Samyuktha, and A.Birundha, 'Detection of Fake News in Social Media using Block Chain Technology' National Conference on 'Innovations in Information and Communication Technology' at Bannari Amman Institute of Technology, Sathyamangalam 8th April 2022.

V.Kaviya & K.Madhumitha, 'Digital Currency in Electronic Payment using Block Chain Technology' National Conference on 'Innovations in Information and Communication Technology' at Bannari Amman Institute of Technology, Sathyamangalam 8th April 2022.

Gowtham.S, Jeevananth.D, Naveen.S and Siva.M 'Amyotrophic Lateral Sclerosis Chatter Using Super Imposition Based Augmented Reality' National Conference on 'Inventive System and Control Technologies' at Arasu Engineering College, Kumbakonam 6th and 7th April 2022.

Karthikeyan.S, Mohamadyousuf.I, and Ramanan.N 'Random Interval Query and Face Recognition Attendance System for Virtual Classroom Using Deep Learning' National Conference on 'Inventive System and Control Technologies' at Arasu Engineering College, Kumbakonam 6th and 7th April 2022.

Balakumar.I, Naveen.M and Siva Sakthi.T 'Automatic Number Plate Recognition (Anpr) Using Yolo Algorithm' National Conference on 'Inventive System and Control Technologies' at Arasu Engineering College, Kumbakonam 6th and 7th April 2022.

Dhivagar.R, Janesh.M, Kathirvel.T and Sridhar.R 'Agriculture Doctor Crop Analysis Using Deep Learning Algorithm' National Conference on 'Inventive System and Control Technologies' at Arasu Engineering College, Kumbakonam 6th and 7th April 2022.

Akash.M, Hariharan.A, Sujitha.V and Gobikrishnan.T 'Duplicated Cloud Storage System for Secure Watchword Protected Coding Key' International Conference on 'Current Trends in Computing, Network Communication and Data Science' at Periyar Maniammai Institute of Science & Technology, Thanjavur 30th and 31st March 2022.

Gowtham.M, Boopesh.S and Saravanan.J 'SOS Implementation with Camera Facilities' International Conference on 'Current Trends in Computing, Network Communication and Data Science' at Periyar Maniammai Institute of Science & Technology, Thanjavur 30th and 31st March 2022.

Parvatha Sri.M, & Poonam Rana 'Secure Practical Authentication Scheme Using Color Code Pin Verification on Online Banking' International Conference on 'Current Trends in Computing, Network Communication and Data Science' at Periyar Maniammai Institute of Science & Technology, Thanjavur 30th and 31st March 2022.

Snekha.P, Manjumathi.S and Shobana.S 'Forecasting Electricity Commodity Consumption and Pricing for Smart Building Using Deep Learning Technique' International Conference on 'Current Trends in Computing, Network Communication and Data Science' at Periyar Maniammai Institute of Science & Technology, Thanjavur 30th and 31st March 2022.

Devendhran.N, Ragul.G, Shibi.N.K and Sriram.A 'Stress Reduction Using Interactive Generative Art Via Vanilla Javascript' International Conference on 'Current Trends in Computing, Network Communication and Data Science' at Periyar Maniammai Institute of Science & Technology, Thanjavur 30th and 31st March 2022.

Adikkala Amalan.S, Akilan.A, Gokula Krishnan.P and Poorna Chandran.T 'Blind Optical Character Character Recognition for Vision Aid Using Raspberry PI' International Conference on 'Emerging Trends in Communication, VLSI and Signal Processing' at JJ College of Engineering and Technology, Trichy 25th March 2022.

Abinaya.R, Prithika.M and Priyanka.M 'Credit Card Transaction Using Face Recognition Technology' International Conference on 'Emerging Trends in Communication, VLSI and Signal Processing' at JJ College of Engineering and Technology, Trichy 25th March 2022.

Abitha R, Girija B and Kaviya S 'Safe Medicine Transfer Using Blockchain Technology' International Conference on 'Emerging Trends in Communication, VLSI and Signal Processing' at JJ College of Engineering and Technology, Trichy 25th March 2022.

Janani.P, Samruthavarshini.V and Vanitha.M 'Augmented Reality Education Tacit To Tech Kids Using Unity And VUFORIA' International Conference on 'Emerging Trends in Communication, VLSI and Signal Processing' at JJ College of Engineering and Technology, Trichy 25th March 2022.

Paper Presentation by the Students

R.Gokul krishnan, A.Joandsouza, V.Sakthivel & A.Jebastin of Second year Computer science and Engineering department presented a paper on 'Tronex - 2022' in National Level Paper Presentation at SNS College of Technology, Saravanampatti from 26th & 27th May 2022.

R.Hema Bharathi & R.Jeevitha of II year Computer science and Engineering department presented a paper on 'Machine Learning' in National Level Paper Presentation at care college of Engineering, Trichy on 06th May 2022.

R.Gokul krishnan of IV year Computer science and Engineering department presented a paper on '5G' in National Level Paper Presentation at Kongu College of Engineering on 01st April 2022.

Jegan S, Vijaykirubagari K, Kamali R, Ritik Magotra, recognized as True Engineer by L & T Technology Services Limited through Techgium Contest for the Proof of Concept "AI based Personal Data Protections (PDP)-GDPR" on 05th May 2022.



Barath S, Indhu S, Kamali R, Kamalesh K, Mouldidhran A, recognized as True Engineer by L & T Technology Services Limited through Techgium Contest for the Proof of Concept "Cyber Threat Detection Based on Artificial Neural Networks Using Event Profiles" on 05th May 2022.

Puviyasree M, Srividya R, Anjana S, Keerthiya R, recognized as True Engineer by L & T Technology Services Limited through Techgium Contest for the Proof of Concept "AI Based Drug Discovery & Development Process" on 05th May 2022.

4. Naveena S, Kamali R, Vijaykirubagari K, Jegan S and Dhashini S actively participated in the contest "Manthan, 2021." By the team "HASH IT OUT" from 6th December 2021 to 8th December 2021.



9.	Infosys	3
10.	E-Noah isolutions	3
11.	Aspire Systems	1
12.	Centelon	6
13.	Avasoft	5
14.	Sutherland Global Services	15
15.	Waffor	2
16.	Mallow Technologies	1
17.	Msys Technologies	2
18.	Vdart	5
19.	Arthur Grand Technologies	3
20.	Maveric	1
21.	IIFL	13
22.	Zealous Services	6

PATENT : IPR / Copyright

Dr.S.Raju, Dr.S.Kalaiarasi, Mrs.L.Nivetha, Mr.P.Logamurthy & Mr.K.Anguraju filed a patent titled on 'Techniques to categorize the stages of Lung Cancer in Depth using Machine Learning Approach' on 10th December 2021.

Dr.R.Asokan, Dr.J.Yogapriya, Dr.M.Dharmalingam, Dr.R.Shankar, Dr.B.Umarani, Dr.T.Sengolrajan, Dr.T.Yuvaraja, Mrs.T.Meenal, Mr.R.Gopalakrishnan & Mr.S.Ragul filed a patent titled on 'Cellular IoT irrigation system using Machine Learning Algorithms and NORDIC' on 11th February 2022.

Dr.J.Yogapriya, Dr.M.Dharmalingam, Dr.C.Saravanabhavan, Mr.T.Ashok, Dr.K.Amutha, Dr.B.Umarani, Dr.P.Elayaraja, Dr.T.Yuvaraja, Mr.A.Sampath, Mr.R.Krishna Prakash, Mr.M.Manthiralakshmanan & Ms.B.Subhashini filed a patent titled on 'Analyzing Human Protein Atlas For Single Cell Classification Using RCNN' on 11th February 2022.

Internship

- Wipro Limited, Chennai
- Mind Tree, Chennai.
- E-noah isolutions, Coimbatore.
- InternBug West Bengal,
- Smartknower, Bengaluru.

Industrial Visit

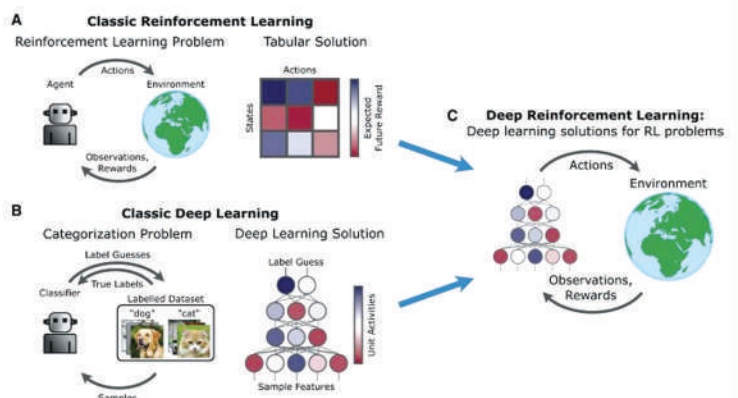
VDart Group, Trichy.

Placement Details

Sl.No	Name of the Company	No. of Students
1.	Tata Consultancy Services	2
2.	Virtusa	1
3.	Tata Consultancy Services	13
4.	Wipro Limited	35
5.	Kumaran Systems	8
6.	Capgemini	7
7.	Mind Tree	2
8.	Atos Syntel	2

1.Reinforcement Learning

Reinforcement Learning is a part of machine learning. Here, agents are self-trained on reward and punishment mechanisms. It's about taking the best possible action or path to gain maximum rewards and minimum punishment through observations in a specific situation. It acts as a signal to positive and negative behaviors.

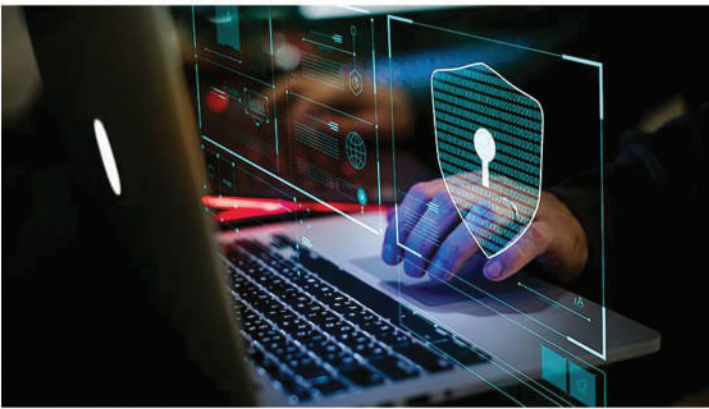


2.Digital Cloud Forensics

Digital Cloud forensics is a topic that is still in its infancy and there is still a lot of research to be conducted in this area. Due to the nature of the cloud traditional digital forensic techniques may not be possible to capture evidence or other data

In an increasingly cloud-oriented society, the ability to identify, obtain, preserve, and analyze potential digital evidence is a critical business capability. Whether responding to a security incident, data breach, or in support of litigation, the ill-prepared organization will find itself at a severe (and potentially costly) disadvantage.

Many of the traditional tools, processes, and procedures that have been developed over the years are not relevant in a cloud environment. Traditional computer forensics focuses on the ability to physically attach to a device, be that a computer, a disk, or a phone, and to then take an image of that device, which can then be investigated and examined



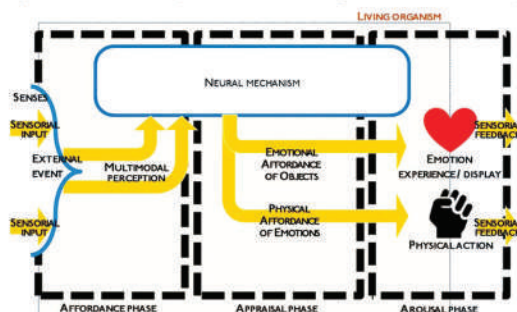
3. VR in Video Games

Virtual reality gaming is the application of a three-dimensional (3D) artificial environment to computer games. Virtual reality environments are created with VR software and presented to the user in such a way that they supersede the real-world environment, creating suspension of disbelief and helping the user experience the VR environment as real. At its simplest, a VR game might involve a 3D image that can be explored interactively on a computing device by manipulating keys, mouse or touchscreen. More sophisticated and immersive examples include VR headsets, wrap-around display screens and VR rooms augmented with wearable computers and sensory components, such as scents and haptics devices for tactile feedback.



4. Affordance in HCI

Affordance is a relationship between a person and a physical or digital object. User interface (UI) affordances are perceivable, actionable possibilities. This means that users observe a UI and decide which actions are possible based on their expectations and previous experiences. A system with good visibility allows the user to easily translate goals into actions. Affordance: It Should Be Obvious How a Control Is Used. The system should provide "strong clues to the operation of things"



5. Remote Patient Monitoring Software

Many healthcare providers are turning to remote patient monitoring software to cope with the coronavirus pandemic. Catholic Health System Providence is using remote monitoring to keep more than 700 patients safe while alleviating stress on emergency room personnel. Often abbreviated as RPM (and sometimes known as remote patient management), remote patient monitoring is a method of healthcare delivery that uses the latest advances in information technology to gather patient data outside of traditional healthcare settings.



6. Proagrica

Proagrica, part of RELX Group, is a global provider of independent connectivity and data-driven support solutions for the agriculture and animal health industries. We deliver actionable intelligence to drive business growth across the value chain. Our superior products and services connect and empower industry participants to address their key needs around trading, productivity and compliance. The Solutions are built around the key competences of data connectivity and data analytics delivering seamless supply chain management, customer insight and engagement, essential for businesses looking to improve their value offering and expand in the modern marketplace



7. Air Traffic Management

The Air Traffic Management (ATM) program is a degree designed for students whose goal is to become an air traffic controller or seek employment in a related industry. In addition to ATM courses, the curriculum provides skills in mathematics, physics, communications, safety, meteorology, and aeronautics.



8. SEO

SEO means Search Engine Optimization and is the process used to optimize a website's technical configuration, content relevance and link popularity so its pages can become easily findable, more relevant and popular towards user search queries, and as a consequence, search engines rank them better.

Search engines recommend SEO efforts that benefit both the user search experience and page's ranking, by featuring content that fulfills user search needs. This includes the use of relevant keywords in titles, meta descriptions, and headlines (H1), featuring descriptive URLs with keywords rather than strings of numbers, and schema markup to specify the page's content meaning, among other SEO best practices. To many people, the term "search engine" is synonymous with Google, which has about 92% of the global search engine market. Because Google is the dominant search engine, SEO typically revolves around what works best for Google. It's useful to have a clear understanding of how Google works and why.



9. Spatial computing

Spatial computing refers to the process of using digital technology to make computers interact seamlessly in a three-dimensional world using augmented reality (AR), virtual reality (VR), and mixed reality (MR). Spatial computing uses physical space to send input and receive output from a computer.

Through spatial computing, most people no longer interact with computers as an outsider would. Instead, they get to experience what it's like to be within the digital realm by interacting with objects that only exist in it. The concept allows the marriage of the real world and the digital landscape

10. Augmented reality (AR)

Augmented reality (AR) is an enhanced version of the real physical world that is achieved through the use of digital visual elements, sound, or other sensory stimuli delivered via technology. It is a growing trend among companies involved in mobile computing and business applications in particular. Augmented reality continues to develop and become more pervasive among a wide range of applications. Since its conception, marketers and technology firms have had to battle the perception that augmented reality is little more than a marketing tool. However, there is evidence that consumers are beginning to derive tangible benefits from this functionality and expect it as part of their purchasing process.



Heartfelt thanks to all the faculty members of Kongunadu College of Engineering and Technology and our well wishers



Kongunadu

College of Engineering & Technology
[Autonomous]

Namakkal - Trichy Main Road, Thottiam, Trichy (Dt) 621 215, Tamilnadu
Mob: 80125 05000, 80125 05011, 80125 05012 email: admissions@kongunadu.org

www.kongunadu.ac.in