



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



Chairman's Message:



As the Chairman of Kongunadu Educational Institutions, I look back with enormous sense of pride, the amazing progress that our institution has made within a short span of time. would not have been possible without the in valuable

support and contribution of the faculties, students, parents and my well-wishers. I strongly believe that serious, sincere and systematic services, surely secure supreme success. I feel very happy about the "CELESTA Newsletter" which is fashioned by the CSE students of our college, which includes the Department activities and achievements. I congratulate our students and wish them all the best.

Principal's Message:



A life of joy and happiness is possible only on the basis of knowledge and science says Dr.Sarvepalli Radhakrishnan. Education is important for every individual in a nation. Technical Education plays a vital role in the development of any country. I feel happy about the "CELESTA Newsletter"

which is released by the students in CSE Department. This is having more content about the achievements of students and faculty. I wish them all the best.

Editorial Board :

Chief Editors :

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

Executive Editors :

- ♦ Dr. S.Dhanabal, ASP/CSE
- ♦ Mrs. L.Nivetha, AP/CSE

Student Editors :

- ♦ Mr. A.Sriram - Final Year CSE
- ♦ Ms. A.Birundha - Final Year CSE
- ♦ Mr. S.Dharun - Third Year CSE
- ♦ Ms. M.Puviyasree - Third Year CSE
- ♦ Mr. M.Amuthan - Second Year CSE
- ♦ Mr. K.J.Arunkumar - Second Year CSE

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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 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 OBJECTIVES (PEOs)

✦ **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 (PSOs)

✦ **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 (POs)

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

✦ **PO 2 : Problem analysis** : Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

✦ **PO 3 : Design/development of solutions** : Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

✦ **PO 4 : Conduct investigations of complex problems** : Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

✦ **PO 5 : 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.

✦ **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.

✦ **PO 7 : Environment and sustainability** : Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

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

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

✦ **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.

✦ **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.

✦ **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.

Programme Conducted by the Department

(Conference/Workshop/Seminar/FDP/Guest Lecture/Training/Webinar/Others)

Ninth National Level Technical Symposium 'Tek Cluster'21' was organized on 25th September 2021.

Online webinar on 'Importance of Wireshark and NS2' was organized on 17th July 2021. The resource person was Dr.S.Shanmugam, Assistant Professor, Artificial Intelligence Department, Chennai.

Online webinar on 'Evolve to Revolve' was organized on 24th July 2021. The resource person was Ms.Sumetha Jeeva, Program Analyst Trainee, CTS, Chennai.

Online webinar on 'Marketing in the Digital World' was organized on 31st July 2021. The resource person was Mr.K.Dhanasekaran, Digital Marketing Manager, Your Practice Online, Bangalore.

Online webinar on 'Opportunities After Engineering through GATE|ESE|PSU' was organized on 7th August 2021. The resource person was Mr.Pabba Ramesh, Sr. Faculty ACE Engineering Academy, Chennai.

Online webinar on 'Hands on Experience in Cloud Infrastructure' was organized on 21st August 2021. The resource person was Mr.Kumar A R J, Trainee Engineer, Vaken Technologies, Chennai.

Online webinar on 'Hindrances Faced by Entrepreneurs' was organized on 23rd August 2021. Organized by Kongunadu Innovation Council in association with the Department of CSE, KNCET, Trichy.

Online webinar on 'Android Program Recipes' was organized on 24th August 2021. The resource person was Mr.M.P.Balamurugan, Senior Android Developer, WEFOR Technologies, Chennai.

Online webinar on 'Role of IOT in Realtime Application Using Firebase' was organized on 27th August 2021. The resource person was Mr.M.Madhan Kumar, Senior Manager and HR, Power Integrated Solutions, Trichy.

Online webinar on 'Exploring Web: Modern Tools' was organized on 4th September 2021. The resource person was Mr. R. Kesavan, Junior Software Developer, Quanter Technologies, Namakkal.

Online webinar on 'Marketing and Money in this Digital World' was organized on 11th September 2021. The resource person was Mr.B.Vigneshvar, Navabrind IT Solution, Bangalore.

Online webinar on 'Transformation of Technologies' was Organized on 18th September 2021.

The resource person was Mr.R.Vignesh, Manager, Yellow matics IT and skill development solutions.

Online webinar on 'SAP for Absolute Beginners' was organized on 25th September 2021. The resource person was Mr.Jay Kandaswamy, SCM-Business Analyst, Australia.

Department of Computer Science and Engineering Organized CSI National Level Fest on 30th September 2021.

Online webinar on 'Robotic Perception' was organized on 9th October 2021. The resource person was Mr.P.Arulselvam, Research Assistant, University of Bonn, Germany.

Online Faculty Development Program on 'Bigdata System Trends in Data Engineering and Analytics' was organized on 3rd and 4th December 2021. The resource person was Mr.Ragavendra Reddy, Senior Bigdata Consultant, OATI, Hyderabad.

KIC (Kongunadu Innovation Council)

Dr.J.Yogapriya, Dean (R&D) & Professor/CSE Innovation Ambassador of KIC contributed as Resource Person in Kongunadu innovation Council-CSE Department organized program titled 'Innovation and Entrepreneurship Eco system in Higher Education Institution' at Kongunadu College of Engineering and Technology, Trichy on 20th August 2021.

Kongunadu Innovation Council (KIC) Associated with Department of Computer Science and Engineering Organized Online webinar on 'Application of Design Thinking Tools and Approach for Right Problem Identification and Solution Development' on 21st August 2021. The resource person was Dr.P.Preethi, AP/CSE, Kongunadu College of Engineering and Technology, Trichy.

Kongunadu Innovation Council (KIC) Associated with Department of Computer Science and Engineering Organized Online webinar on 'Generation and Management of IP at the Early Stage of Innovation and Startup Development' on 30th August 2021. The resource person was Mr. R. Krishna Prakash, Innovation Ambassador of KIC, AP/CSE, Kongunadu College of Engineering and Technology, Trichy.

DBT sponsored Seminar on 'COVID'19 Data Analytics Using Deep Learning Algorithms was organized on 22nd October 2021. The resource persons were

- Dr.M.Sridevi, AP, CSE, NIT, Trichy,
- Mr.V.Chandran, Certified NVIDIA Instructor for Deep Learning, Research Scholar/ECE, Dr.NGP Institute of Technology, Coimbatore
- Dr.J.Yogapriya, Dean (R&D), Professor./CSE, KNCET, Trichy.

VALUE ADDED COURSE

- ❖ Machine Learning using Python

DEPARTMENT ACHIEVEMENTS

DBT (Department of Bio-Technology, Govt. of India) sponsored Rupees 8000 for Computer Science and Engineering Department. Using that We organized one day online seminar on "COVID'19 Data analytics Using Deep Learning Algorithms" on 22nd October 2021.

STAFF ACHIEVEMENTS AND AWARDS

Mr.C.Radhakrishnan, AP received NPTEL Online Certification titled on 'Compiler Design' held on 22nd August 2021.

Dr.K.Baskar, ASP received Elite NPTEL Online Certification titled on 'Operating System Fundamentals' held on 23rd October 2021

Mr.C.Radhakrishnan, AP received NPTEL Online Certification titled on 'Operating System Fundamentals' held on 23rd October 2021.

PUBLICATION OF BOOKS

Dr.C.Saravanabhavan, Mr.N.Premkumar, Mrs.M.Mythili 'Database Management System', The Charulatha Publications, Chennai, ISBN:978-93-92663-20-8, November 2021.

Dr.K.Baskar, Dr.S.Dhanabal, Mr.S.Simonthomas, 'Operating System', The Charulatha Publications, Chennai, ISBN:978-93-92663-07-9, November 2021

Mr.G.Karthik, Mr.K.Kathick, Mr.R.Krishnaprakash, 'Computer Networks', The Charulatha Publications, Chennai, ISBN:978-93-90967-85-8, November 2021

Dr.C.Saravanabhavan, Dr.M.Muthumanickam, Dr.P.Preethi, 'Design and analysis of Algorithm', The Charulatha Publications, Chennai, ISBN:978939266312-3 November 2021

Dr.S.Sathya, Mrs.S.Sangeetha, Mr.C. Radhakrishnan, 'Software Engineering' The Charulatha Publications, Chennai, ISBN:978-93-90967-93-3 November 2021.

PUBLICATION IN JOURNALS BY STAFF

Dr.Yogapriya J, Chandran V, Sumithra M G, Anitha P, Jenopaul P & Suresh Gnana Dhas C 'Gastrointestinal Tract Disease Classification from Wireless Endoscopy Images Using Pretrained Deep Learning Model, Computational and Mathematical Methods in Medicine, [https:// doi.org/ 10.1155/2021/5940433](https://doi.org/10.1155/2021/5940433), ISSN:2577-7408, pp 1-12, September 2021.

Dr.Preethi P, Dr.Asokan R, Dr.Thillaiarasu N & Saravanan T 2021 'An Effective Digit Recognition Model using Enhanced Convolutional Neural Network based Chaotic Grey Wolf Optimization', Journal of Intelligent & Fuzzy Systems, ISSN: 1064-1246 (Print), ISSN:1875-8967, Vol.41, Issue.2, pp.3727-3737, September 2021, DOI: 10.3233/JIFS-211242, Scopus Indexed

Dr.Preethi P, Dr.Asokan R, Dr.Thillaiarasu N & Saravanan T 2021 'An Effective Digit Recognition Model using Enhanced Convolutional Neural Network based Chaotic Grey Wolf Optimization', Journal of Intelligent & Fuzzy Systems, ISSN:1064-1246 (Print), ISSN: 1875-8967, Vol.41, Issue.2, pp.3727-3737, September 2021, DOI: 10.3233/JIFS-211242, Scopus Indexed

Dr.C.Saravanabhavan, Ms.T.Gangalakshmi, P. Ashok, Dr.N.Krishnaveni, 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.

PUBLICATION IN CONFERENCE

Mrs.L.Nivetha, Dr.J.Yogapriya, Dr.P.Preethi, 'Modelling an Efficient Cloud Based System Approach for Agricultural System' AICTE Sponsored International Conference on 'Emerging Trends on Communication and Networking (ETCAN'21)' held at Kongunadu College of Engineering and Technology, Trichy on 22nd & 23rd October 2021.

Dr.C.Saravanabhavan, Dr.P.Preethi & Mr.C.Radhakrishnan 'An Comparative Analysis-Crime Analysis and Prediction Model Using Data mining and Machine Learning Techniques' International Conference on 'Artificial Intelligence and Computing Technologies in Agriculture and Rural Development' held at Malla Reddy College of Engineering, Hyderabad on 24th & 25th Sep 2021.

Dr.K.Baskar, Dr.Preethi, Mr.R.Krishnaprakash, Dr.S.Dhanabal, Mrs.T.R.Saranya of Computer Science and Engineering department attended Conference on 'Chemistry in day-to-day Life' held at Azad Mahavidyalaya, Ausa on 5th Oct 2021

Dr.K.Baskar, Mr.C.Radhakrishnan, Dr.S.Dhanabal, Mr.K.Karthick, Mr.R.Krishna Prakash, Mrs.P.Mounica, Mr.K.Anguraju, Mrs.L.Nivetha of Computer Science and Engineering department attended Conference on 'Strengthening of Academics using E- Resources' held at Azad Mahavidyalaya, Ausa on 16th Nov 2021.

Dr.K.Baskar, P.William, S.Yuvaraj, K.Vengatesan & Rahul Bibave 'Design and Implementation of Augmented Reality for Smart Driver Assistance System' International Conference on 'Innovation, Research and Challenges in Emerging Technologies' held at Panipat Institute of Engineering and Technology, Haryana on 19th & 20th Nov 2021.

Dr.S.Dhanabal, K.Vengatesan, P.William, Udayabhanu N P G Raju, S.Sangeetha 'Implementation and Comparative Analysis of Various Energy Efficient Clustering Schemes in AODV' International Conference on 'Innovation, Research and Challenges in Emerging Technologies' held at Panipat Institute of Engineering and Technology, Haryana on 19th & 20th Nov 2021.

PAPER PRESENTED & PROGRAMME ATTENDED BY THE STAFF

(Webinar/Workshop/FDP/STTP/Training/Other

Dr.J.Yogapriya, Dean (R&D) & Professor of Computer Science and Engineering department completed AICTE Sponsored Online Short Term Training Program (STTP) on Professional Communication organized by Birla Institute of Technology Mesra 7th to 12th June 2021.

Dr.J.Yogapriya, Dean (R&D) & Professor of Computer Science and Engineering department attended Webinar on 'Banking and Other Financial Facilities Available to Entrepreneurs & Societies Organized by EDII-Anna Business Incubation Research Foundation, University College of Engineering, BIT campus, Anna university, Trichy on 19th June 2021.

Dr.J.Yogapriya, Dean (R&D) & Professor of Computer Science and Engineering department attended Webinar on 'Technology transfer and IP monetization, commercialization in the Covid Era, was Organized by EDII-Anna Business Incubation Research Foundation, University college of Engineering, BIT campus, Anna University, Trichy on 17th June 2021.

Dr.J.Yogapriya, Dean (R&D) & Professor of Computer Science and Engineering department attended Innovation Ambassador Training on 'Innovation Ambassador training (Foundation Level)' held at MoE's Innovation Cell & AICTE on 30th June 2021 to 30th July 2021.

Dr.J.Yogapriya, Dean (R&D) & Professor of Computer Science and Engineering department attended Webinar on "Role of Blockchain in Scaling Innovation and Empowering Start-ups", Organized by EDII-Anna Business Incubation Research Foundation, University College of Engineering, BIT campus, Anna university, Trichy on 31st July 2021.

Dr.J.Yogapriya, Dean (R&D) & Professor of Computer Science and Engineering department attended ATAL online Elementary FDP on Machine learning with R Programming held at National Institute of Technical Teachers Training and Research, Kolkattaon 25th to 29th Oct 2021.

Dr.C.Saravanabhavan, HOD/CSE and Dr.K.Baskar, ASP, of Computer Science and Engineering department attended Webinar on 'MOOCs & e-Learning Development' held at Nehru Institute of Engineering and Technology, Coimbatore on 25th Oct 2021.

Dr.K.Baskar, ASP, of Computer Science and Engineering department attended International Webinar on 'Autonomous Vehicles : Past and Present' held at PSG Institute of Technology and Applied Research, Coimbatore on 5th June 2021.

Dr.K.Baskar, ASP, of Computer Science and Engineering department attended FDP on 'Creative Thinking' held at ICT Academy, Tamilnadu from 7th June 2021 to 11th June 2021.

Dr.K.Baskar, ASP, of Computer Science and Engineering department attended National Level Webinar on 'IoT Architecture' held at Nehru Institute of Engineering and Technology, Coimbatore on 21st June 2021.

Dr.K.Baskar, ASP, of Computer Science and Engineering department attended International Seminar on 'Network Security and Cryptography' held at SRM Institute of Science and Technology, Coimbatore on 26th June 2021.

Dr.K.Baskar, ASP, of Computer Science and Engineering department attended FDP on 'Multi Technology' held at CMR Engineering College, Hyderabad from 28th June 2021 to 3rd July 2021.

Dr.K.Baskar, ASP and Ms.S.Dhivya, AP of Computer Science and Engineering department attended FDP on 'Machine Learning and Computer Vision' held at ATAL, India from 5th to 9th July 2021.

Dr.K.Baskar, ASP, Mrs.P.Mounica, AP and Dr.P.Preethi, AP of Computer Science and Engineering department attended International FDP on 'Research Methodologies - Application of Statistical Tools for Decision Making' held at Marudhar Kesari Jain College for Women, Vaniyambadi on 12th July 2021.

Dr.K.Baskar, ASP, of Computer Science and Engineering department attended Webinar on 'Emotional Intelligence' held at PSNA College of Engineering & Technology, Dindigul on 17th Aug 2021.

Dr.K.Baskar, ASP and Dr.P.Preethi of Computer Science and Engineering department attended National Level Webinar on 'Advancement of Signal Processing in Medical Field' held at Nehru Institute of Engineering and Technology, Coimbatore on 18th Aug 2021.

Dr.K.Baskar, ASP, of Computer Science and Engineering department attended Webinar on 'Machine Learning Techniques using Python' held at Kongunadu College of Engineering and Technology, Trichy on 26th Aug 2021.

Dr.K.Baskar, ASP, of Computer Science and Engineering department attended National Level Webinar on 'IoT Communication Protocols' held at Nehru Institute of Engineering and Technology, Coimbatore on 15th Sep 2021.

Dr.K.Baskar, ASP, of Computer Science and Engineering department attended Webinar on 'Deep Learning in NLP' held at Mahendra Institute of Technology, Mallasamudram on 17th Sep 2021.

Dr.P.Preethi, AP of Computer Science and Engineering department attended Innovation Ambassador Training on 'Innovation Ambassador training (Foundation Level)' held at MoE's Innovation Cell & AICTE on 30th June 2021 to 30th July 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended International Webinar on 'Autonomous Vehicles: Past and Present' held at PSG Institute of Technology and Applied Research, Coimbatore on 5th June 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended National Level Webinar on 'Information Security: Data Privacy and Protection' held at AMET Deemed to be University, Chennai on 18th June 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended National Level Webinar on 'IoT Architecture' held at Nehru Institute of Engineering and Technology, Coimbatore on 21st June 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended International Seminar on 'Network Security and Cryptography' held at SRM Institute of Science and Technology, Ramapuram Campus on 26th June 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended E-Conference on 'One Day National e-Conference on Soft Skills' held at Azad Mahavidyalaya, AUSA on 27th June 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended ATAL FDP on 'Cyber Security' held at Vivekanand Education Society's Institute of Technology from 5th to 9th July 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended International FDP on 'Research Methodologies - Application of Statistical Tools for Decision Making' held at Marudhar Kesari Jain College for Women, Vaniyambadi on 12th July 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended E-Conference on 'One Day National e-Conference on Intellectual Property Rights' held at Azad Mahavidyalaya, AUSA on 3rd August 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Webinar on 'New Education Policy 2020: Quality Education, Accreditation and Teacher Development' held at PSNA College of Engineering and Technology, Dindigul on 6th August 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Webinar on 'Emotional Intelligence' held at PSNA College of Engineering & Technology, Dindigul on 17th Aug 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended National Level Webinar on 'Advancement of Signal Processing in Medical Field' held at Nehru Institute of Engineering and Technology, Coimbatore on 18th Aug 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Webinar on 'Machine Learning Techniques using Python' held at Kongunadu College of Engineering and Technology, Trichy on 26th Aug 2021.

Mr.C.Radhakrishnan, AP, Dr.P.Preethi, Mrs.P.Mounica, Dr.S.Dhanabal of Computer Science and Engineering department attended National Level Webinar on 'IoT Communication Protocols' held at Nehru Institute of Engineering and Technology, Coimbatore on 15th Sep 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended NAAC Sponsored Seminar on 'Qualitative & Quantitative Metrics in RAAF of NAAC' held at Rajalakshmi Engineering College, Chennai on 17th Sep 2021.

Mr.C.Radhakrishnan, AP of Computer science and engineering department attended Faculty Development Programme on 'Internet of Things In Smart Cities', held at Kongunadu College of Engineering and Technology, Trichy on 20th to 24th September 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended ATAL FDP on 'Internet of Things (IoT) in Smart Cities' held at Kongunadu College of Engineering and Technology, Thottiam from 20th to 24th September 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Conference on 'Chemistry in day to day Life' held at Azad Mahavidyalaya, AUSA on 5th Oct 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Training Program on 'Wipro Certified Faculty Program' held at Wipro, Bangalore from 4th to 22nd October 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Webinar on 'MOOCs & e-Learning Development' held at Nehru Institute of Engineering and Technology, Coimbatore on 25th October 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Conference on 'Strengthening of Academics using E- Resources' held at Azad Mahavidyalaya, AUSA on 16th November 2021.

Mr.C.Radhakrishnan, AP, of Computer Science and Engineering department attended Webinar on 'Deep Learning in NLP' held at Mahendra Institute of Technology, Mallasamudram on 17th November 2021.

Mr.K.Karthick, AP, of Computer Science and Engineering department attended International Webinar on 'Autonomous Vehicles: Past and Present' held at PSG Institute of Technology and Applied Research, Coimbatore on 5th June 2021.

Mr.K.Karthick, AP, of Computer Science and Engineering department attended National Level Webinar on 'IoT Architecture' held at Nehru Institute of Engineering and Technology, Coimbatore on 21th June 2021.

Mr.K.Karthick, AP, of Computer Science and Engineering department attended International Seminar on 'Network Security and Cryptography' held at SRM Institute of Science and Technology, Ramapuram Campus on 26th June 2021.

Mr.K.Karthick, AP, of Computer Science and Engineering department attended International FDP on 'Research Methodologies - Application of Statistical Tools for Decision Making' held at Marudhar Kesari Jain College for Women, Vaniyambadi on 12th July 2021.

Mr.K.Karthick, AP, of Computer Science and Engineering department attended Webinar on 'New Education Policy 2020: Quality Education, Accreditation and Teacher Development' held at PSNA College of Engineering and Technology, Dindigul on 6th August 2021.

Mr.K.Karthick, AP, of Computer Science and Engineering department attended Webinar on 'Emotional Intelligence' held at PSNA College of Engineering & Technology, Dindigul on 17th August 2021.

Mr.K.Karthick, AP, of Computer Science and Engineering department attended National Level Webinar on 'Advancement of Signal Processing in Medical Field' held at Nehru Institute of Engineering and Technology, Coimbatore on 18th August 2021.

Mr.K.Karthick, AP, of Computer Science and Engineering department attended National Level Webinar on 'IoT Communication Protocols' held at Nehru Institute of Engineering and Technology, Coimbatore on 15th September 2021.

Mr.K.Karthick, AP, of Computer Science and Engineering department attended ATAL FDP on 'Internet of Things (IoT) in Smart Cities' held at Kongunadu College of Engineering and Technology, Thottiam from 20th to 24th September 2021.

Mr.K.Karthick, AP, of Computer Science and Engineering department attended Faculty Development Program on 'Research Methodologies-Application of Statistical tools for decision making' held at Maruthur kesarijain college for women, Vaniyambadi, on 12th October 2021.

Mr.K.Karthick, AP, Dr.P.Preethi of Computer Science and Engineering department attended Webinar on 'MOOCs & e-Learning Development' held at Nehru Institute of Engineering and Technology, Coimbatore on 25th October 2021.

Mr.K.Karthick, AP Mrs.T.R.Saranya AP, of Computer Science and Engineering department attended FDP on 'Enlightening Strategic Management' held at Anwarul Uloom College of Business Management, Hyderabad on 27th October 2021.

Mr.K.Karthick, AP, of Computer Science and Engineering department attended Conference on 'Strengthening of Academics using E-Resources' held at Azad Mahavidyalaya, AUSA on 16th November 2021.

Mr.K.Karthick, AP, of Computer Science and Engineering department attended Webinar on 'Deep Learning in NLP' held at Mahendra Institute of Technology, Mallasamudram on 17th November 2021.

Mr.K.Anguraju, AP, of Computer Science and Engineering department attended International Level Webinar on 'Autonomous Vehicles: Past and Present' held at PSG Institute of Technology and Applied Research, Coimbatore on 05th June 2021.

Mr.K.Anguraju, AP, of Computer Science and Engineering department attended National Level Webinar on 'IoT Architecture' held at Nehru Institute of Engineering and Technology, Coimbatore on 21st June 2021.

Mr.K.Anguraju, AP, of Computer Science and Engineering department attended International Seminar on 'Networking Security and Cryptography' held at SRM Institute of Science and Technology, Chennai on 26th June 2021.

Mr.K.Anguraju, AP, of Computer Science and Engineering department attended International FDP on 'Research Methodologies - Application of Statistical Tools for Decision Making' held at MarudharKesari Jain College for Women, Vaniyambadi on 12th July 2021.

Mr.K.Anguraju, AP, of Computer Science and Engineering department attended National Seminar on 'Qualitative & Quantitative Metrics in RAAF of NAAC' held at Rajalakshmi Engineering College, Chennai on 17th September 2021.

Mr.R.Krishna Prakash, AP of Computer Science and Engineering department attended Webinar on 'Autonomous Vehicles: Past and Present' held at PSG Institute of Technology and Applied Research on 5th June 2021.

Mr.R.Krishna Prakash, AP of Computer Science and Engineering department attended Webinar on 'IoT Architecture' held at Nehru Institute of Engineering and Technology on 21st June 2021.

Mr.R.Krishna Prakash, AP of Computer Science and Engineering department attended Seminar on 'International Seminar on Network Security and Cryptography' held at SRM Institute of Science and Technology on 26th June 2021.

Mr.R.Krishna Prakash, AP of Computer Science and Engineering department attended Conference on 'National e-Conference on Soft Skills' held at Azad Mahavidyalaya, AUSA on 27th June 2021.

Mr.R.Krishna Prakash, AP of Computer Science and Engineering department attended FDP on 'Research Methodologies - Application of Statistical Tools for Decision Making' held at Marudhar Kesari Jain College for Women Vaniyambadi on 12th July 2021.

Mr.R.Krishna Prakash, AP of Computer Science and Engineering department attended FDP on 'Practical insight into key concepts of Blockchain' held at Ramaiah Institute of Technology on 12th July 2021 to 16th July 2021.

Mr.R.Krishna Prakash, AP, Dr.P.Preethi, AP of Computer Science and Engineering department attended Innovation Ambassador Training on 'Innovation Ambassador training (Foundation Level)' held at MoE's Innovation Cell & AICTE on 30th June 2021 to 30th July 2021.

Mr.R.Krishna Prakash, AP of Computer Science and Engineering department attended Webinar on 'New Education Policy (NEP) 2020: Quality Education, Accreditation and Teacher Development' held at PSNA College of Engineering & Technology on 06th August 2021.

Mr.R.Krishna Prakash, AP of Computer Science and Engineering department attended Webinar on 'Emotional Intelligence' held at PSNA College of Engineering & Technology on 17th August 2021.

Mr.R.Krishna Prakash, AP of Computer Science and Engineering department attended Webinar on 'Advancement of Signal Processing in Medical Field' held at Nehru Institute of Engineering and Technology on 18th August 2021.

Mr.R.Krishna Prakash, AP of Computer Science and Engineering department attended Webinar on 'IoT Communication Protocols' held at Nehru Institute of Engineering and Technology on 15th September 2021.

Mr.R.Krishna Prakash, AP of Computer Science and Engineering department attended FDP on 'Internet of Things (IoT) in Smart Cities' held at Kongunadu College of Engineering and Technology on 20th to 24th September 2021.

Mr.R.Krishna Prakash, AP of Computer Science and Engineering department attended Conference on 'Chemistry in day to day life' held at Azad Mahavidyalaya, AUSA on 05th October 2021.

Mr.R.Krishna Prakash, AP of Computer Science and Engineering department attended Webinar on 'National Webinar on MOOCs & e-Content Development' held at Nehru Institute of Engineering & Technology on 25th October 2021.

Mr.R.Krishna Prakash, AP of Computer Science and Engineering department attended Webinar on 'Deep Learning in NLP' held at Mahendra Institute of Technology on 17th November 2021.

Mr.R.Krishna Prakash, AP of Computer Science and Engineering department attended FDP on 'Enlightening Strategic Management' held at Anwarul Uloom College of Business Management,Hydrabad on 27th November 2021.

Dr.S.Dhanabal, ASP, of Computer Science and Engineering department attended Webinar on 'Emotional Intelligence' held at PSNA College of Engineering & Technology, Dindigul on 17th August 2021.

Dr.S.Dhanabal, ASP, of Computer Science and Engineering department attended Webinar on 'Advancement of Signal Processing in Medical Field' held at Nehru Institute of Engineering and Technology, Coimbatore on 18th August 2021.

Dr.S.Dhanabal, ASP, of Computer Science and Engineering department attended Faculty Development Program on 'Cybersecurity Essentials' (Online Live FDP) held at ICT Academy, Coimbatore on 18th August 2021.

Dr.S.Dhanabal, ASP, of Computer Science and Engineering department attended Webinar on 'Machine Learning Techniques using Python' held at Kongunadu College of Engineering and Technology, Trichy on 26th August 2021.

Dr.S.Dhanabal, ASP, of Computer Science and Engineering department attended ATAL Faculty Development Program on 'Cyber Security Essentials' conducted by ICT academy on 23rd August to 27th August 2021.

Dr.S.Dhanabal, ASP, Mr.R.Premkumar, AP of Computer Science and Engineering department attended Webinar on 'MOOCs & e-Learning Development' held at Nehru Institute of Engineering and Technology, Coimbatore on 25th October 2021.

Mrs.T.R.Saranya, AP, of Computer Science and Engineering department attended online Faculty Development Program on 'Cyber physical systems for smart environment and IoT' held at Sri Krishna College of Engineering and Technology, on 8th to 12th October 2021.

Mrs.T.R.Saranya, AP, of Computer Science and Engineering department attended Online Seminar on 'COVID-19 Data Analytics Using Deep Learning Algorithms' held at Kongunadu College of Engineering and Technology, Trichy, on 22nd October 2021.

Mrs.T.R.Saranya, AP, of Computer Science and Engineering department attended National level Webinar on 'Machine Learning for Medical Applications' held at Nehru Institute of Engineering and Technology, Coimbatore on 1st September 2021.

Mr.R.Premkumar AP, of Computer Science and Engineering department attended Faculty Development Program on 'Introduction to python Programming' held at Conducted by ICT academy on 27th September to 1st October 2021.

Ms.S.Dhivya, AP of Computer Science and Engineering department attended online FDP on 'Technological Leadership for Inclusive Digital Society' Organized by Sikkim Manipal Institute of Technology on 1st to 5th June 2021.

Mrs.L.Nivetha, AP, Mr.R.Premkumar, AP, Mrs.T.R.Saranya, AP of Computer Science and Engineering department attended Virtual webinar on Deep Learning in NLP Organized by Department of Information Technology, Mahendra institute of Technology on 17th November 2021.

STUDENTS CONTRIBUTION

STUDENTS WON IN COMPETITIONS (Curricular/Extra Curricular Activities)

S.Venkatesh, P.Shankar & R.Gokul Krishnan of Second year CSE Students got first prize in the event Paper Presentation in National Level Symposium organized by Bannari Amman Institute of Technology on 14th November 2021.

N.Agatheeswaran of Second year CSE Student got first prize in the event Webinar organized by Unacademy on 20th November 2021.

S.Dharun of Third year CSE Student got first prize in the event Webinar organized by Unacademy on 20th November 2021.

A.Akilan of Final year CSE Student got first prize in the event Boxing in Indians Ranking Professional Boxing-King of the ring South India 2.0 organized by IBC & WBC on 21st November 2021.

Three batch of students' projects are selected at L&T Techgium Contest for POC development.

1. AI Based Drug Discovery
2. Model For AI-Security
3. AI Based Personal Data Protections

One batch of student's projects are selected to participate in grand finale of Manthan Contest.

STAFF AS A RESOURCE PERSON

Dr. J. Yogapriya, Dean (R&D) & Professor, Computer Science and Engineering Department Innovation Ambassador of KIC, contributed as Resource Person in Kongunadu innovation council-CSE Department organized program titled "Innovation and Entrepreneurship Eco system in Higher education Institution" at Kongunadu College of Engineering and Technology, Thottiam on 20th August 2021.

Dr.J.Yogapriya, Dean (R&D) & Professor, Computer Science and Engineering Department contributed as Resource Person in DBT(Department of Bio-Technology) Sponsored One day online seminar on "COVID'19 Data Analytics Using Deep Learning Algorithms" at Kongunadu College of Engineering and Technology, Thottiam on 22nd Oct 2021.

Dr.P.Preethi, AP/CSE Innovation ambassador of KIC, contributed as Resource Person in Kongunadu innovation council-CSE Department organized program titled "Application of Design Thinking tools and Approach for Right Problem Identification and Solution Development" at Kongunadu College of Engineering and Technology, Thottiam on 21st August 2021.

Mr.R.Krishna Prakash, AP/CSE Innovation ambassador of KIC, contributed as Resource Person in Kongunadu Innovation Council-CSE Department organized program titled "Generation and Management of IP at the early Stage of Innovation and Startup Development" at Kongunadu College of Engineering and Technology, Thottiam on 28th august 2021.

2. INTERNSHIP

Kumaran systems, Chennai
Centelon, Chennai
BSG Technologies, Newdelhi
Mallow Technologies, Karur
Elite Techno Groups, Jaipur
Network Kings, Chandigarh
Azure Skynet Solutions Pvt., Ltd., Haryana
ExposysDatalabs, Bangaluru
Cad Desk Tachnical service, Trichy
TechroIt Software pvt.Ltd, Coimbatore
Entrepreneurship network, Newdelhi
Spinspider Technology, Salem
Virtusa, Chennai
Internshala

3. PATENT: IPR/Copyright

Dr.J.Yogapriya, Dr.M.Dharmalingam, Dr.R.Shankar, Dr.C.Saravanabhavan, Mr.M.Dineshkumar, Mrs.S.Revathi, Mr.A.Sampath, Mr.S.Ragul, Dr.K.Amudha & Dr.B.Umaran filed a patent titled on 'Smart Vision Based Iron Box Using Deep Learning Algorithms' on 16th July 2021.

Dr.R.Asokan, Dr.P.Preethi, Dr.C.Saravanabhavan, Dr.K.Baskar, Mr.C.Radhakrishnan, Mr.K.Karthick, Dr.N.Krishnaven filed a patent titled on 'Internet of Things (IoT) based Ensemble model for Automated Micro climate prediction system' on 10th September 2021.

Dr.J.Yogapriya, Dr.C.Saravanabhavan, Dr.K.Amudha, Dr.P.Elaiyaraja, Dr.R.Sathya, Mrs.S.Sangeetha, Dr.S.Dhanabal, Mrs.M.Mythili, Mr.R.Premkumar & Mrs.T.R.Saranya filed a patent titled on 'A Deep Learning System for Brain Tumor Radio Genomic Classification and Method Thereof' on 30th September 2021.

4. Placement Details

S.No	Name of the Company	No. of Students Placed
1.	TCS	15
2.	Wipro Technologies	28
3.	Virtusa	1
4.	Mind Tree	2
5.	Syntel	1
6.	Msys Technologies	2
7.	Aspire Systems	1
8.	Kumaran Systems	8
9.	Avasoft	5
10.	Vdart	5
11.	Arthur Grand Technologies	3
12.	Maveric Systems	1
13.	Waffor	2
14.	Centelon	6
15.	Mallow Technologies	1
16.	Centizen	1
17.	Sutherland Global Services	1

10 New Innovations That Cloud Change The World

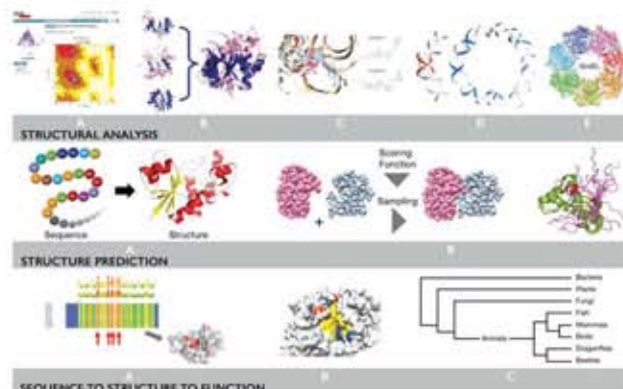
1. Parallel And Distributed Computing

Distributed systems are groups of networked computers which share a common goal for their work. The terms "concurrent computing", "parallel computing", and "distributed computing" have much overlap, and no clear distinction exists between them. The same system may be characterized both as "parallel" and "distributed"; the processors in a typical distributed system run concurrently in parallel. Parallel computing may be seen as a particular tightly coupled form of distributed computing, and distributed computing may be seen as a loosely coupled form of parallel computing. In parallel computing, all processors may have access to a shared memory to exchange information between processors. In distributed computing, each processor has its own private memory (distributed memory). Information is exchanged by passing messages between the processors.



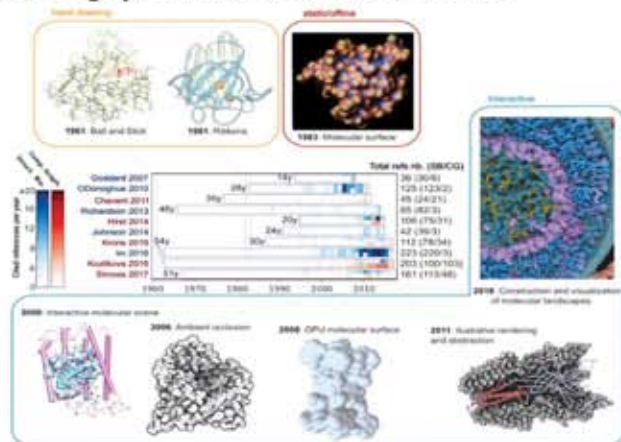
2. Structural Bioinformatics

Structural bioinformatics is the branch of bioinformatics that is related to the analysis and prediction of the three-dimensional structure of biological macromolecules such as proteins, RNA, and DNA. It deals with generalizations about macromolecular 3D structures such as comparisons of overall folds and local motifs, principles of molecular folding, evolution, binding interactions, and structure/function relationships, working both from experimentally solved structures and from computational models. The term structural has the same meaning as in structural biology, and structural bioinformatics can be seen as a part of computational structural biology. The main objective of structural bioinformatics is the creation of new methods of analyzing and manipulating biological macromolecular data in order to solve problems in biology and generate new knowledge.



3. Non-Photorealistic Rendering

Pen-and-ink line drawing techniques are frequently used to depict form, tone, and texture in artistic, technical, and scientific illustration. In non-photorealistic rendering (NPR), considerable progress has been made towards reproducing traditional pen-and-ink techniques for rendering 3D objects. However, formal evaluation and validation of these NPR images remain an important open research problem. In this paper we present an observational study with three groups of users to examine their understanding and assessment of hand-drawn pen-and-ink illustrations of objects in comparison with NPR renditions of the same 3D objects. The results show that people perceive differences between those two types of illustration but that those that look computer-generated are still highly valued as scientific illustrations.



4. Information Technology in Public Policy

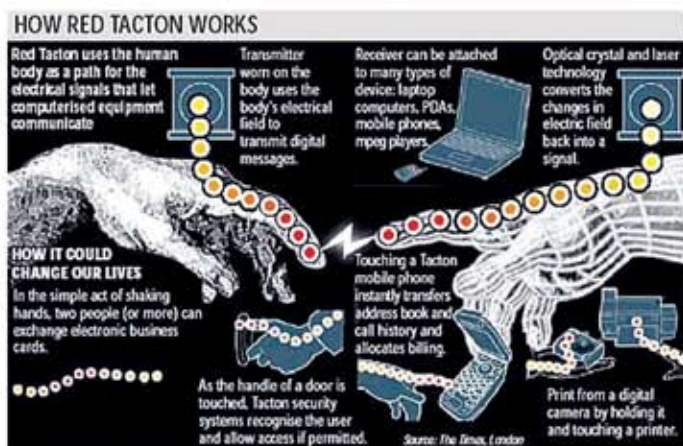
The phrase 'public policy' is used in everyday parlance during the discussions in public domain with respect to the policies such as agriculture policy, health policy, foreign investment policy, economic policy, labour policy, education policy and so on. A policy is defined as a course of action and policy framed by the government and impacting the people, at large, is called a public policy. It comprises a set of intentions or purpose, a description of the direction in which the government intends to move or introduce reforms, the actors involved and the measures to be taken. Public policy plays one of the most crucial role in governance and drives the social and economic development. Public policymaking can be described as a dynamic, intricate, and interactive system in which public problems are discovered and solved by developing new policies or reforming the older ones. There are various models of Public Policy formulations and Implementation (PPFI) and also various methodologies/stages to facilitate adaption of those models. This article attempts to explore the role of IT in some of the popular models in depth.



5. Red Tacton

As electronic devices become smaller, lower in power requirements, and less expensive, we have begun to adorn our bodies with personal information and communication appliances. Such devices include cellular phones, personal digital assistants (PDAs), pocket video games, and pagers. Currently, there is no method for these devices to share data. Networking these devices can reduce functional i/o redundancies and allow new conveniences and services.

Human society is entering an era of ubiquitous computing when networks are seamlessly interconnected and the information is always accessible at our fingertips. The practical implementation of ubiquitous services requires three levels of connectivity. Wide Area Networks (WAN), typically via the Internet, to remotely connect all types of servers and terminals. Local Area Networks (LAN), typically via Ethernet or WiFi connectivity among all the information and communication appliances in offices and homes and Human Area Networks (HAN) for connectivity to personal information, media and communication appliances within the much smaller sphere of ordinary daily activities.



6. Intelligent Process Automation

IPA "takes the robot out of the human." At its core, IPA is an emerging set of new technologies that combines fundamental process redesign with robotic process automation and machine learning. It is a suite of business-process improvements and next-generation tools that assists the knowledge worker by removing repetitive, replicable, and routine tasks. And it can radically improve customer journeys by simplifying interactions and speeding up processes. IPA mimics activities carried out by humans and, over time, learns to do them even better. Traditional levers of rule-based automation are augmented with decision-making capabilities thanks to advances in deep learning and cognitive technology. The promise of IPA is radically enhanced efficiency, increased worker performance, reduction of operational risks, and improved response times and customer journey experiences.



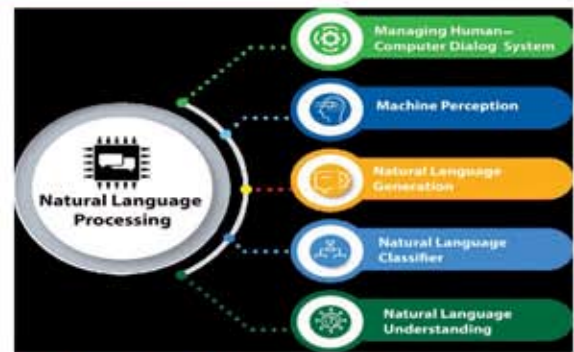
7. Humanoid Robot

A humanoid robot is a robot resembling the human body in shape. The design may be for functional purposes, such as interacting with human tools and environments, for experimental purposes, such as the study of bipedal locomotion, or for other purposes. In general, humanoid robots have a torso, a head, two arms, and two legs, though some humanoid robots may replicate only part of the body, for example, from the waist up. Some humanoid robots also have heads designed to replicate human facial features such as eyes and mouths. Androids are humanoid robots built to aesthetically resemble humans.



8. Natural Language Processing

Natural language processing (NLP) refers to the branch of computer science—and more specifically, the branch of artificial intelligence or AI—concerned with giving computers the ability to understand text and spoken words in much the same way human beings can. Human language is filled with ambiguities that make it incredibly difficult to write software that accurately determines the intended meaning of text or voice data. Homonyms, homophones, sarcasm, idioms, metaphors, grammar and usage exceptions, variations in sentence structure—these just a few of the irregularities of human language that take humans years to learn, but that programmers must teach natural language-driven applications to recognize and understand accurately from the start, if those applications are going to be useful.



9. Affective Computing

Affective computing relates to, arises from, or intentionally influences emotion. It is a continuously growing multidisciplinary field that explores how technology can inform an understanding of human affect, how interactions between humans and technologies can be impacted by affect, how systems can be designed to utilize affect to enhance capabilities, and how sensing and affective strategies can transform human and computer interaction. Encompassing disciplines, such as engineering, psychology, education, cognitive science, sociology, and others; this chapter explores some of the historical foundations and general goals of affective computing, approaches to affect detection and generation, applications, ethical considerations, and future directions.



10. Global Positioning System

The Global Positioning System, formally known as the Navstar Global Positioning System, was initiated as a joint civil/military technical program in 1973. The joint program combined the best aspects of several service-centric capabilities including TRANSIT, TIMATION, and Project 621B to reduce the proliferation of navigation aids. By creating a system that overcame the limitations of many existing navigation systems, GPS became attractive to a broad spectrum of users worldwide. The Global Positioning System has been successful in virtually all navigation and timing applications, and because its capabilities are accessible using small, inexpensive equipment, GPS is being used in a wide variety of applications across the globe.



**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: 8012 505000, 8012 505011, 8012 505054 email: admissions@kongunadu.org

www.kongunadu.ac.in