

**KARPAGA
VINAYAGA**

MEDICINE
DENTISTRY
ENGINEERING
NURSING
PHARMACY
SCHOOL

EDUCATIONAL GROUP | CHENNAI



KARPAGA VINAYAGA

COLLEGE OF ENGINEERING AND TECHNOLOGY

GST ROAD, CHINNA KOLAMBAKKAM, MADHURANTHAGAM,
CHENGALPATTU - 603308. TAMIL NADU

**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**
organize

INTERNATIONAL CONFERENCE ON

Role of Artificial Intelligence And IoT in
Engineering, Technology & Science

ICRAETS - 2024

on 16th - 17th April 2024

In association with



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Ms. Selciya Selvan, AP/ECE
Ms. Jennifer Pon Cathrerin, AP/ECE

About the Institution

Karpaga Vinayaga College of Engineering and Technology (KVCET) is a premier technical institution started in 2001 by Thiru. S. Regupathy, founder and Minister of Law & Order, Govt. of India. KVCET is affiliated with Anna University, Chennai, and offers eight undergrad programmes in engineering and technology and eight postgraduate programmes in engineering. The institution has signed MOUs with several leading industries and foreign universities, such as Michigan Technical University, USA, and PSB Academy Singapore. The departments of Biotech, CSE, Chemistry, and ECE are recognised research centers by Anna University, Chennai. All the departments have been recognised by DSIR, New Delhi, as Scientific Industrial Research Organizations.

Institute Vision

Imparting innovative higher education with a greater emphasis on high-value systems and shaping personnel for nation-building.

Mission

- ▶ To impart quality technical education by providing state-of-the-art infrastructure with dedicated faculty.
- ▶ To provide contemporary technical education for facing the needs and challenges of industries and research establishments at the global level.
- ▶ To effect socio-economic transformation of society by inculcating human values and social responsibilities.

About the Department

The Department of Electronics and Communication Engineering (ECE) was established in the year 2001. It is 20 years old now and one of the oldest and most well-established departments in our institution. It offers undergraduate programmes (4 years) and postgraduate programmes (2 years). The B.E (ECE) programme at this campus of KVCET is accredited by the National Board of Accreditation (NBA), the Government of India.

The department comprises well-qualified and experienced faculty members. The department is well equipped with all electronics and communication laboratories, which include a microwave lab, an RF lab, a signal processing lab, Optical and VLSI lab and IoT lab. The department consistently strives for the overall development of the students by guiding them in all endeavors through special career development programme and placement assistance. The ECE programme encourages students to work in research groups to undertake an inventive research project, and outstanding students are often rewarded with seed money, patent support, conference travel allowances, and other benefits.

Department Vision

To produce outstanding graduates in Electronics and Communication Engineering by developing leadership qualities and imparting quality technological education and research capabilities with ethical values.

Mission

- ▶ To provide a rigorous education to prepare students to become highly qualified engineers and the technology leaders of tomorrow.
- ▶ To inculcate the research initiative with moral and ethical values.
- ▶ To prepare graduates to lead fulfilling professional lives, participate in lifelong learning, and assume roles as contributing members of society.

About Conference

The Department of Electronics and Communication Engineering, Karpaga Vinayaga College of Engineering and Technology, Chengalpet, is organising an onsite international conference on the Role of Artificial Intelligence and IoT in Engineering, Technology, and Science (ICRAETS-2024), affords a collaborative forum for academicians, students, research scholars, and industry delegates to present their innovative ideas, discoveries, models, and concepts in diversified areas. The theme of the conference is an emerging interdisciplinary area where a wide range of theories, methodologies, and algorithms are explored to analyse or secure complex data or challenge real-world problems.

The objectives of this conference are:

- ▶ To promote scientific information interchange among researchers, developers, engineers, students, and practitioners working in India and overseas.
- ▶ To discover solutions for the key challenges faced by digital entrepreneurs and enterprises across the world through the sharing of research ideas.
- ▶ To provide exposure in various domains (and not limited to) the role of artificial intelligence in all disciplines. Application of IoT, data science, and data analytics.
- ▶ To offer keynote talks and paper presentations in onsite mode by academia and industry to inspire young participants & # 39; minds and henceforth enrich their knowledge.



Call for the Papers

All the researchers and authors are also invited to submit their full papers before the deadline or after the conference for consideration for easy and fast publication in a Scopus-indexed journal. All papers from this conference will also be reviewed by the respective journal reviewing teams and published with the conference proceeding ISBN number. All the selected papers for the conference will be considered for publication in the conference-associated journal. Topics covering industrial issues and applications and academic research include, but are not limited to:

Track-I	Track-II
Big Data Analytics, Usage of AI Algorithms and Tools, Connectivity and Networking, Digital Processing, Deep Learning, Augmented Reality & Virtual Reality, IoT enabled Innovation and Entrepreneurship, Business value through Data Fabric, Machine Learning and Applications.	Manufacturing Processes & Technology, Design Engineering, Thermal Engineering, Materials Science, Industrial Engineering, Robotics, Green Building Materials & Technology, Geo-Technical Engineering.
Track-III	Track-IV
Embedded System, Renewable Energy Systems, Micro grid & Smart grid, Electric Vehicle System, Wireless Technologies, Biomechanics and Medical Devices, Implantation, Neuroprosthetics and Medical Imaging, Thermography, Healthcare, Interoperability in Medical Systems, Framework on Health Monitoring, Microwave and Wireless Communication, Innovative Antennas, Advanced VLSI and Nanotechnology, Wireless Network Security and Privacy, 5G and Beyond, Remote Sensing, Scientific Imaging, , Advanced Signal Processing.	Molecular Docking, Computational Studies, Crystal Analysis, Polymer Processing, Nano Materials. Semiconducting, Magnetic & Super-Conducting Materials, NLO materials, Crystal Growth, Thin Films, Energy Storage Materials, Stochastic Process, Mathematical modelling, Graph Theory, Algebra and Topology. Communication skills, Personality Development, Grammatical Competencies, Soft Skills, Research Methodology, Service Marketing, Innovations in Management, Ethics in Management, Human Values and Behavioural Sciences.

Authors Guidelines

The manuscript should be submitted according to the following guidelines:

All the review manuscripts should be submitted in PDF format without author's names and affiliations using Easy Chair Conference Management Systems in AIP format. However, the names of all authors should be registered on Easy Chair during submission.

Authors should ensure that the similarity score of their research paper is not above 10%.

The maximum number of pages allowed will be six.

Mode of Conference

The conference will be conducted on a hybrid platform. Participants would be required to present their research papers onsite.

Publication Opportunity

All accepted research papers will be published in the proceedings of KVCET 2024 with an ISBN number. All the selected papers for the conference will be considered for publication in the conference-associated journal.

Registration Guidelines

Registered members are asked to inform us about the registration immediately.

After completion of the registration fee process, participants are required to send a scan copy of the registration fee receipt or transaction proof to us on or before the last date of registration.

Any modifications to the paper will not be accepted after the final submission date.

After completion of the registration fee process, participants are required to send a copy of the full paper.

Paper Submission

All selected and presented papers will be published in SCOPUS INDEXED, AIP Publishing.

<https://pubs.aip.org/aip/acp>

All selected and presented papers will be published in UGC CARE:

<https://www.ictacademy.in/pages/Research-Publications.aspx>.

ICTACT Journal on Data Science and Machine Learning (IJDSML)

ICTACT Journal on Microelectronics (IJME)

ICTACT Journal on Communication and Technology (IJCT)

The number of pages in each article is limited to 6 to 12 pages.

Plagiarism Policy

Authors should maintain the ethics and integrity of academic policy, and the similarity index of articles should be less than 10%.

Prior permission from the copyright holder should be acquired for copyrighted material.

Authors should make proper citations in the proposed article for the content they have referred to in previously published articles.

Registration Fee details

Particulars	Registration Fees
Conference Registration Fee	Rs.800/- per team
AIP Publishing (Indexed in Scopus) (Opt. for 50 Papers)	Rs.7500/- per paper
UGC Care (Opt. for 50 Papers)	Rs.3000/- per paper
Scopus Indexed (Best 20 papers)	Rs.3000/- per paper

Important Dates

Submission Deadline	16 March, 2024
Acceptance Notification	30 March, 2024
Registration	05 April, 2024
Final Camera-Ready Paper Submission	05 April, 2024



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Dr. Umapada Pal, Indian Statistical Institute, Kolkata, West Bengal.

Dr. Vijaykumar V. R., Anna University, Coimbatore, Tamil Nadu.

Dr. Viswanath Pulabaigari, IIIT-Chittoor, Andhra Pradesh.

Dr. M. Kalamuthumari, Rural Care Innovators LLP, India.

Dr. Abin George,

CSIR-National Aerospace Lab, India.

Keynote Speakers

Dr. M. Murugappan,

Professor, Department of Electronics and Communication Engineering, Kuwait College of Science and Technology, Kuwait.

Dr. B.K. Sarkar,

Director, CHE Research, USA

Dr. Mohammad Farukh Hashmi,

Assistant Professor, Department of ECE, National Institute of Technology, Warangal

Dr. R.Banumathi,

Scientist CSIR

Participants receive certificates; selected papers publish in Scopus conference proceedings.