

# NATIONAL CONFERENCE ON INNOVATION, TECHNOLOGY & SOCIOLOGY ( NCITS 2022 )

November 29<sup>th</sup> & 30<sup>th</sup>, 2022

Organized by



## NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE

PAMPADY, THRISSUR, KERALA

Accredited by NAAC with 'A' Grade,  
NBA Accredited Approved by AICTE, New Delhi,  
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UNDER THE AEGIS OF  
NEHRU GROUP OF INSTITUTIONS



NEHRU GROUP  
OF INSTITUTIONS



### ORGANISING DEPARTMENTS

- Department of Computer Science Engineering
- Department of Electronics and Communication Engineering
- Department of Electrical and Electronics Engineering
- Department of Mechanical Engineering
- Department of Mechatronics Engineering
- Department of Master of Computer Application

### ABOUT NGI

Nehru Group of Institutions (NGI) with its humble beginning in 1968 at Kuniamuthur, Coimbatore, Tamil Nadu was established by the Founder Chairman Late Shri P.K.Das with the objective of providing higher education in the field of Aeronautical Engineering. NGI progressively flourished and started offering undergraduate (UG), postgraduate (PG) and doctorate (PhD) programs in all major Engineering branches, Management, Medical Sciences, Architecture, Law, Arts and Science, Paramedical Sciences and Hospitality management. NGI also started offering pre-school education to kids, with the establishment of International Schools. Currently, the Nehru Group of Institutions operates through its 20+ state-of-the-art institutions in the states of Kerala and Tamil Nadu.

### ABOUT COLLEGE

Nehru College of Engineering and Research Centre (NCERC), a temple of knowledge well known for its dedicated and committed service to the realm of technical education in Kerala, is an ISO 9001:2015 certified institution, approved by the All India Council for Technical Education (AICTE) and is accredited by National Assessment and Accreditation Council (NAAC). It is also an approved research center that caters to the needs of higher education and research. The Institution offers five undergraduate programs in engineering and post graduate programs in Master of Computer Applications and Master of Business Administration. All the departments are headed by highly qualified, experienced and committed faculty who are highly professional. International seminars, lectures, workshops, technical exhibitions, co-curricular and extra-curricular activities are organized by the college on a regular basis to enlighten the minds of the student fraternity. With a perfectly designed and absolutely fabulous infrastructure NCERC is a cut above the rest. It is equipped with well-furnished classrooms, modern laboratories, auditoriums, hostels, subsidized canteens, transportation facilities, Wi-Fi connectivity and a modern library with a rich collection of books. With all the modern facilities and a conducive environment for peaceful intellectual activity, NCERC is a sought after place for healthy life, lucid thinking and pleasant learning pursuits.

### ABOUT THE CONFERENCE

Innovation and Technology are among the most powerful drivers of global change in Society from a scientific, industrial and technological perspective. Today the rate of scientific and technological development, dissemination and application far outpaces the capacity of society, institutions and individuals to adapt, contributing to increasing social imbalances, stress, upheavals, displacement and disruption. The challenge before humanity is to acquire the most effective blend of Innovation, Technology and Society to maximize both the freedom for scientific creativity and technological innovation and the welfare of present and prospect generations.

NCITS 2022 would devise a podium to search various turning points in Innovation and Technology that can radically transform Society by examining the technological influences in terms of their Contributing causes, Core players and Transformative properties.

### SCOPE OF THE CONFERENCE

The conference will cover following broad areas but not limited to:

**CSE/MCA** : Computer vision, Artificial intelligence, Synthetic and organic computing structure and systems, Cyber security, Advanced in network technologies, Big data

**ECE**: VLSI and Embedded systems, Communication engineering, Image and signal processing, Digital and medical electronics, Fiber optics, radar, and microwaves, Biomedical Engineering.

**EEE:** Smart Grid and Renewable Energy, Electric and Hybrid Electric Vehicles, Micro grid and Distributed Generations, Energy Storage Technologies, FACTS controllers and its applications.

**MECH:** Mechanical Design, Metallurgy and Material science, Mechanics of solids and Fluids, Manufacturing Technology, Energy conversion.

**Mechatronics:** Robotics and Automation, Mechanisms and machines for rural, agricultural and industrial applications, Mechatronics and micro mechanisms.

**Sociology:** Mass media, Race nationality and ethnicity, Youth cultures, Sociology of Gender equality, Social movements, Spirituality, Superstition and legends

#### Advisory Committee



**Dr. Saly George**  
Dean Academics,  
National Institute of Technology,  
Calicut, Kerala - India - 673601



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Adjunct Professor, IIT-Hyderabad  
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Dept of Computational Biology and Bioinformatics  
University of Kerala, Karyavattom, Thiruvananthapuram



**Dr. T. RubanDevaprakash,**  
Principal  
Peeva College of Engineering & Technology, Thiruvananthapuram

#### Organizing Committee

**Chief Patrons :** 1. **Adv. Dr. P Krishna Das**  
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: 2. **Dr. P Krishna Kumar**  
CEO & Secretary, NGI

**Patron :** **Prof. Dr. Ambika Devi Amma T**  
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#### Stream Convenors

**Prof. Vishnu Prabha N. Kaimal (ECE)** - 9400202022

**Prof. Sundaramoorthi (EEE)** - 9544869231

**Prof. Neethu.M (MTR)** - 9497352601

**Prof. Sruthi M.R (CSE)** - 9496670721

**Lt. Sanoj T (ME)** - 9746760742

#### Call for Paper

Prospective authors are invited to submit the full length paper to the following mail id. ([ncits2k22@gmail.com](mailto:ncits2k22@gmail.com)). Acceptance of the full length paper will be communicated to the authors through e-mail.

#### Important dates

Submission of full paper - November 15, 2022

Notification of final selection - November 19, 2022

Submission of camera

ready paper - November 23, 2022

Paper in IEEE format (both pdf and .doc)

(4 to 6 pages)

#### JOURNAL PUBLICATIONS:

All presented papers will be published in conference proceedings

Selected papers from the conference proceedings will be published in Anna University Annexure – I, Web of Science, Scopus indexed and peer reviewed open access Journal

#### Registration

Online Transaction for Registration

Account Name : Nehru College of Engineering and Research Centre

Account number : **50100356277820**

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Branch : Thiruvilwamala, Kerala

Category	Indian participant (INR)
Industry	Rs 500
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Please send your papers to the following

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