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NICHE Kanyakumari

NATIONAL CONFERENCE ON RECENT

ADVANCES IN ENGINEERING AND

TECHNOLOGY -2024

(NCRAET - 2K24)

23rd April 2024

Organized by

DEPARTMENT OF

MECHANICAL ENGINEERING

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION

(Deemed to be University under Section 3 of the UGCAct 1956)

Accredited by NAAC (Second Cycle)

Kumaracoil-629 180, Thuckalay,

Kanyakumari District, Tamil Nadu, India.

VENUE: AC Auditorium

GREETINGS FROM NICHE

The Noorul Islam Centre for Higher Education (NICHE), Kumaracoil, Kanyakumari District, Tamil Nadu, one of the prominent deemed universities in India, takes immense pleasure in announcing "National Conference on Recent Advances in Engineering and Technology -2024, (NCRAET-2024). The Conference will be a platform to focus on the recent advances in Mechanical Engineering and other emerging technologies to beheld on 23 APRIL 2024 at NICHE. It aims to provide an opportune forum and vibrant platform for Researchers, Academicians, Scientists and Industrial Practitioners to share their original research work, patents, findings and practical development experiences on the specific new challenges and emerging issues confronting the nation.

A BRIEFHISTORY ABOUTTHE UNIVERSITY

NICHE - comprising of Noorul Islam College of Engineering as its constituent teaching unit has been declared as a Deemed-to-be-University by Ministry of Government of India under section 3 of the UGCAct, 1956, on the advice of UGC, vide Notification No.F.9-51/2004-U.3 dated 8th December 2008. The University is run by the NICHE Society with Janab Dr A.P. Majeed Khan as President of the Society, NICHE and the Chancellor of the University, NICHE. The NICHE campus at Kumaracoil Thuckalay in Kanyakumari District of Tamil Nadu is in the serene and hish green base of Velimalai, a spectacular part of Western Ghat Hillsnear the historically famous Padmana bhapuram Palace. It is only 1.5 km interior towards the foot hills of the mountains from Kumara coil Junction on the Kanyakumari District, Thiruvanthapuram National Highway (NH-47) about 30 km from Kanyakumari and 60 km from Trivan drum, the capital city of the state of Kerala.

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering of the Noorul Islam Centre for Higher Education is one of the largest and most respected departments in the South India, consistently achieving high ratings for teaching quality and research. It was established during 1995. The department offers BE (Mechanical Engineering), ME (Computer Integrated Manufacturing), ME (Thermal Engineering) and Ph.D. in Mechanical Engineering [Full time and Part time]. At present, about eighty-five research scholars are working towards their Ph.D. degree. The expertise of

our staff covers a wide range of specialist areas and our mission is to carry out researchin fundamental science through practical industrial applications. The faculty members are grouped under three broad specializations- Design, Manufacturing and Thermal & Fluid Engineering on going research areas include Numerical Heat Transfer & Fluid Mechanics, Supersonic Combustion, Alternate fuels, Supply chain Management, Composite materials, Nano Materials, Artificial Intelligence, Simulation of Smart materials, Material Joining Technique, Scheduling, Robotics and Automation etc. The academic activities are supported by 24 laboratories. About 380 research papers were published by the department in peer-reviewed journals. The department also publishes a bi-annual National Journal of Emerging Technology in Mechanical Sciences and Engineering.

OBJECTIVE

The objectives of the conference are to provide a platform for the exchange of ideas amongst scholars in various disciplines, present the state of the art innovations and point out the new trends in current research activities and emerging technologies. It is also proposed to have an assembly of eminent persons in their area of specialization with fairs hare of invited talks and work shop materials in all relevant fields, for the benefit of the delegates of the Conference.

CALLFOR PAPERS

The authors who wish to contribute to the conference are solicited to submit their papers that illustrate research results, projects, surveying works and industrial experiences addressing state-of-the-art research and development in all areas related to Engineering and Technology. In particular, the following topics are expected to be addressed by authors but not limited.

- Advanced Materials and Manufacturing Processes
- Renewable Energy and Green Technologies
- Mechanism, Materials and Metallurgy
- Management Studies
- Science [Applied], System and Simulation
- Control Communication and Computation
- Sustainable Infrastructure Development
- Biomedical Engineering and Health care Innovations
- Information and Communication Technologies (ICT)

 for Development
- Artificial Intelligence/MachineLearning/Deep Learning
 Applications

- Transportation and Urban Mobility Solutions
- Water Resources Management and Environmental Engineering
- Disaster Mitigation and Resilient Infrastructure
- Robotics and Automation for Social Impact
- Cross-Cultural Perspectives in Engineering Education and Research
- Smart Cities and loT (Internet of Things) Applications
- Image Processing/Video Processing Applications
- Humanitarian Engineering and Global Development Initiatives
- Aerospace and Defense Technologies
- Ethical Considerations in Engineering Innovation
- Entrepreneurship and InnovationEcosystems in Engineering

PUBLICATION

All accepted papers will be published in the conference proceeding with ISBN Number and selected papers will be published in bi-annual National Journal of Emerging Technology in Mechanical Sciences and Engineering.

MANUSCRIPT SUBMISSION

The authors are expected to submit original research papers which have not been submitted else where in other conference and journals paper should be submitted through Email: ncraet2024@gmail.com.The author should strictly follow the IEEE format. For further queries in this regard, please email to ncraet2024@gmail.com and visitwebsite www.nichemechanical.com.

IMPORTANT DATES

Full Paper Submission: 15th April 2024 Notification of Acceptance: 16th April 2024

Final Paper Submission and Author's Registration: 18th April 2024

Conference Date: 23rd April 2024

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