# **BROAD AREAS:**

## **PROPULSION & HEAT TRANSFER**

- Advances in Space Propulsion & Power Concepts
- · Clean Combustion
- · Green Propellants
- Cryogenics
- Thermal Analysis
- Heat Exchangers
- Combustion, Performance & Emission

#### **EXP. & COMP. AERODYNAMICS**

- Wind Tunnel TestingShock Waves
- Hypersonic Aerodynamics
- Re-entry Aerodynamics
- · Acoustics
- Aero-elasticity
- · Fluid Structure Interaction

# **MATERIALS & COMPOSITES**

- · Smart Materials
- Additive Manufacturing
- 3-D Printing
- Modelling and Simulation Technologies
- Structural Analysis
- Corrosion
- · Composite Materials
- · Advance Joining Methods

# **UAS & SYSTEM ENGINEERING**

- Digital Aviation
- Aircraft Maintenance
- · Civil Aviation & Space Policies
- Intensive CAD/CAM
- · Aircraft Design
- Launch Vehicles System and Technologies
- Rocket and Space

# SPACE TECHNOLOGY

- Space Dynamics and Interplanetary Trajectory.
- · Defence and Security
- · Space Resource Utilization
- Astrophysics
- · Lander Technology for Space
- · Orbital Mechanics
- · Rocket Theory & Design
- · Satellite Collision Avoidance

#### **AVIONICS GUIDANCE & CONTROL**

- · Aviation 4.0
- · Human System Interaction
- · Sensors & MEMS
- Digital Twinning
- Mechatronics, Microelectronics in Aerospace Systems
- · Automation Control and Robotics
- · Structural Health Monitoring
- Spacecraft System Design & Control

# **CALL FOR PAPERS**

Academicians, researchers and industry professionals are being invited to submit their original research papers previously unpublished, not currently under review by another conference or journal. All submissions will be subjected to at least two blind reviews. Acceptance will be based entirely on quality, relevance and originality. The authors can send their Abstracts/ Full paper(s) online. The template for submission is provided at the conference website:

Submit your Abstracts/ Full paper(s) through the website link:

# https://www.karunya.edu/aerospace/icraae-24

The decision of oral presentation will be strictly followed as per approval of technical review committee. All selected peer-reviewed research/ review papers presented in the conference will be recommended for publication in our supporting publishing partners.

## **IMPORTANT DATES**

Abstract Submission Deadline	2nd November 2023
Full Paper Submission Deadline	30th November 2023
Notification of Acceptance	15th December 2023
Last date of Registration & Payment	15th January 2024
Last date for Revised Paper Submission	30th January 2024
Conference Dates	29th & 30th March 2024

## **REGISTRATION FEE**

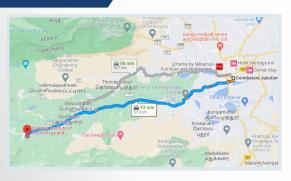
DELEGATE CATEGORY	INR	USD
Under Graduates/Post Graduates	4000	100
Research Scholar	5000	120
Registration (Registration Deadline: 15th February 2024)		
Academia/Industry (Virtual)	7000	150
Academia/Industry (Offline)*	9500	200
Attendee (Accompany Delegates)	2000	100

- $\bullet$  Registration fee includes SCOPUS Engineering Proceedings
- · Includes Certificate to presenting author
- · Registration fee does not include journal publication charges

# SUPPORTING PUBLISHING PARTNERS

- · High Temperature Corrosion of Materials
- · Engineering Proceedings-MDPI (SCOPUS)
- ES Materials & Manufacturing (SCOPUS)
- Engineered Science (SCOPUS)
- Check Publication tab in website for more Supporting Publishing journals

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## Get in touch with us

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Karunya Institute of Technology & Sciences, Coimbatore, India

# **KARUNYA INSTITUTE OF TECHNOLOGY & SCIENCES**

Karunya Institute of Technology and Sciences, was founded with the noble vision to raise professionals and leaders of high academic calibre and unblemished character, nurtured with a strong motivation and commitment to serve humanity. The institution is the fulfillment of the vision of its founders Late Dr. D. G. S. Dhinakaran and the present Chancellor Dr. Paul Dhinakaran. Established in 1986 as an Engineering College, it was granted an autonomous status in 1999 and declared Deemed-to-be University by the University Grants Commission (UGC) in recognition of its academic excellence by the Ministry of Human Resources Development under section 3 of the UGC Act, 1956 vide notification no 9-3-2000-U3 dated 23.6.2004 of the Government of India. Accredited by NAAC, the institution offers a wide array of Bachelors. Masters and Doctoral Degree programmes in various branches of Engineering, Biotechnology, Food processing and Agricultural Sciences. From a humble beginning of 180 students, the institution has rapidly grown to 8000+ students and 450+ faculty representing 18 academic divisions

In the three decades of service to higher education, Karunya Institute of Technology and Sciences has made significant progression in teaching learning, research and consultancy, innovation and transfer of technology, community service and value education. Translating the vision of the Founders into action, the institution is currently engaged in finding solutions to human problems in the four major areas such as Water, Food, Healthcare, and Energy through scientific and technological interventions.

## **DIVISION OF AEROSPACE ENGINEERING**

The Division of Aerospace Engineering at Karunya Institute of Technology and Sciences (KITS) was launched in the year 2009 with the primary objective of producing Aerospace Engineers to meet the growing demand and to serve the civilian aeronautical as well as the defense-oriented sectors. Our budding engineers acquire skills in core domains like Aerodynamics, Stress Analysis, Materials and Structures, Aircraft Design, Propulsion, Space Dynamics, Artificial Intelligence & Machine Learning, Smart Manufacturing that enable them to understand physical laws and cruise through time and space being creative and innovative, thus opening up the limitless opportunities in an endless space. The students are trained in aerospace design and analysis software and offered value-added courses in Digital Manufacturing, Artificial Intelligence in Aerospace manufacturing, Value Engineering etc., to keep them abreast with the latest developments. Over the years the Division of Aerospace Engineering has groomed 500+ engineers who have grown to occupy strategic positions at research organizations like GTRE and NAL, MNCs like Accenture, Capgemini, and Infosys, and in highly reputed companies like Quest Global, Agnikul Cosmos etc., to name a few.

## **ABOUT CONFERENCE**

The 2nd International Conference on Recent Advances in Aerospace Engineering aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of Aerospace Sciences. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Aerospace.

## **OBJECTIVES OF CONFERENCE**

Prospective authors are kindly encouraged to contribute to and help shape the conference through submissions of their research abstracts and papers. Also, high quality research contributions describing original and unpublished results of conceptual, constructive, empirical, experimental, or theoretical work in all areas of Aerospace are cordially invited for presentation at the conference.

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