



ICASET-2025

**3rd International Conference on
Advances in Science, Engineering & Technology**

 **22nd - 23rd March, 2025**  **Chennai, India**

Organized by : SSM College of Arts & Science, Atal Community Innovation Centre Rise (ACIC RISE) Association,
Chandigarh group of colleges and IFERP Academy - Tamil Nadu Society

**Theme : Enabling Sustainable Development through Science,
Engineering, and Technology**

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ABOUT CONFERENCE

3rd International Conference on Advances in Science, Engineering & Technology (ICASET) partnership with SSM College of Arts & Science and IFERP Academy, beckons researchers, scholars, and industry professionals to embark on a journey of intellectual exploration and collaboration. As an attendee, you will find compelling reasons to participate in this dynamic event. ICASET offers a unique opportunity to immerse yourself in a rich tapestry of multidisciplinary knowledge. It is a platform to connect with global thought leaders and visionaries who have left an indelible mark on the landscape of science, engineering, and technology. Keynote sessions by these luminaries promise to offer profound insights into the latest trends, challenges, and future directions in these dynamic fields.

Whether you are a researcher looking to refine your methodology or a professional seeking to stay abreast of the latest industry practices, these workshops provide a unique learning experience.

CONFERENCE THEME

" Enabling Sustainable Development through Science, Engineering, and Technology"

This theme emphasizes the vital role of science, engineering, and technology in driving sustainable development. It focuses on innovative solutions that address global challenges such as climate change, resource management, and equitable growth. By fostering interdisciplinary collaboration, the conference aims to pave the way for a future where technological advancements and sustainability go hand in hand.



OBJECTIVES OF THE CONFERENCE

3rd ICASET conference is driven by a multifaceted objective that goes beyond the traditional goals of academic gatherings. At its core, the conference aims to facilitate knowledge integration across disciplines. It recognizes that the most pressing challenges facing society today are often complex and multifaceted, requiring collaborative solutions that bridge disciplinary boundaries.

ICASET seeks to be a catalyst for innovation, acting as a crucible where transformative ideas are not just discussed but showcased. The objective is to promote a culture of innovation that goes beyond theoretical discussions to practical implementations. Attendees are encouraged to bring forward ideas that have the potential to make a significant impact on the world, fostering a spirit of forward-looking optimism.

Furthermore, the conference sets out to provide extensive networking opportunities. Participants will have the chance to connect with peers, mentors, and potential collaborators from around the globe. The collaborative nature of ICASET extends beyond the conference days, laying the groundwork for lasting professional relationships that transcend geographical limitations.

PURPOSE OF THE CONFERENCE

Conference is a melting pot of innovation, uniting brilliant minds from science, engineering, and technology to weave a future where sustainability is the norm. With a focus on pioneering research, it propels the development of sustainable solutions that tackle the world's most pressing issues, from renewable energy to resilient infrastructure. This gathering isn't just about ideas—it's about igniting action, forging partnerships, and crafting a roadmap to a greener, smarter, and more sustainable world for generations to come.



Session Speakers



Assoc. Prof. Dr. Tiruveedula Gopi Krishna
Adama Science and Technology University,
Ethiopia.



Prof. Dr. Tanuja Satish Dhope (Shendkar)
Department of Electronics and
Communication Engineering
Bharati Vidhyapeeth (Deemed to be University)
College of Engineering,, Pune, India.



Asst. Prof. Dr. Madhurima Dasgupta
School of Humanities, Management and Social Sciences
The Neotia University, India.



Assoc. Prof. Dr. Ku Nurul Fazira Ku Azir
Faculty of Electronic Engineering & Technology
Head Centre of Excellence for Advanced Computing
Universiti Malaysia Perlis,
Malaysia.



Prof. Dr. Amit Kumar Marwah
Head of the Department of Mechanical Engineering
Acropolis Institute of Technology and Research,
Indore (MP), India.



Mr. Hardik Ruparel
Nutanix | Founder- Stealth Project
United States.



Prof. Dr. Karuppasamy Periyasamy
Department of Electronics & Communication Engineering
Adithya Institute of Technology,
Coimbatore India.



Prof. Dr. Nagandra Kumar Sharma
Dean, Faculty of Technology
Chandra Shekher Azad University of Agriculture
and Technology, Campus-Etawah, India.

Session Speaker



Dr. Ayush Dogra

Assistant Director –Research, CRIO,
Chitkara University
Punjab, India.

Keynote Speakers



Assoc. Prof . Dr. Nurnadiah Zamri

Senior Lecturer
Faculty of Informatics and Computing,
University of Sultan Zainal Abidin,
Terengganu, Malaysia.



Assoc Prof. Dr. Jothilakshmi P

Electronics and Communication Engineering
Amrita Vishwa Vidyapeetham
India.



Dr. Prakash Subramaniam

Dean
Sathyabama Institute of Science & Technology
Chennai, India.

SESSIONS AND TRACKS

Topics of Interest for Submission include, but are not limited to:

Electrical & Electronic Engineering

- ★ Electrical Engineering Materials
- ★ Electric Power Generation
- ★ Transmission and Distribution
- ★ Power Quality
- ★ Power Economic
- ★ FACTS
- ★ Renewable Energy
- ★ Electric Traction
- ★ Electromagnetic Compatibility
- ★ High Voltage Insulation Technologies
- ★ High Voltage Apparatuses
- ★ Lightning Detection and Protection
- ★ Power System Analysis
- ★ SCADA
- ★ Electrical Measurements
- ★ Economic aspects of power quality and cost of supply
- ★ Reliability and continuity of supply
- ★ Power quality in grids with distributed generation and renewable energies
- ★ Energy efficiency in industry
- ★ Education and power quality
- ★ Electrical Engineering Materials
- ★ Electric Power Generation, Transmission, and Distribution
- ★ Power Quality and Economics
- ★ Nanoelectronics and Microelectronics

Computer Science & Artificial Intelligence

- ★ Computer Networks and Data Communications
- ★ Machine Learning and AI Applications
- ★ Data Encryption and Cybersecurity
- ★ Robotics and Autonomous Systems



SESSIONS AND TRACKS

Topics of Interest for Submission include, but are not limited to:

Computer Science & Informatics

- ★ Computer Networks
- ★ Data Communications
- ★ Data Encryption
- ★ Data Mining
- ★ Programming Languages
- ★ Image processing and pattern recognition
- ★ Computer Animation
- ★ Artificial intelligence
- ★ Machine learning
- ★ GUI, Distributed and Parallel Processing
- ★ Operating Systems
- ★ Internet and Web Applications
- ★ Mobile Computing
- ★ Embedded System Security
- ★ Security and Cryptography
- ★ Pattern Recognition
- ★ Artificial Neural Networks & Deep learning
- ★ Parallel and Distributed Computing
- ★ Architectural interaction
- ★ Big data infrastructure
- ★ Cloud computing
- ★ Data center networking
- ★ Nano-electronics and microelectronics
- ★ Cyber Security
- ★ Computer Networks and Data Communications
- ★ Machine Learning and AI Applications
- ★ Data Encryption and Cybersecurity
- ★ Robotics and Autonomous Systems

Biotechnology & Health Sciences

- ★ Genetic Engineering and CRISPR Technologies
- ★ Biopharmaceutical Manufacturing
- ★ Bioinformatics and Biomedical Applications
- ★ Synthetic Biology



SESSIONS AND TRACKS

Topics of Interest for Submission include, but are not limited to:

Electronics Communication & Engineering

- ★ Nanoelectronics and microelectronics
- ★ Power and Applied electronics
- ★ Microprocessor and Microcontroller
- ★ Very Large Scale Integration(VLSI)
- ★ Micro scale fabrication
- ★ Electro technologies
- ★ High Voltage and Insulation Technologies
- ★ Power Electronics and Drive Systems
- ★ Power Quality and Electromagnetic Compatibility
- ★ Digital Communication
- ★ Semiconductor Technology
- ★ Signal and Image Processing
- ★ Transmission of Numerical Images
- ★ Embedded Systems and Security
- ★ Intelligent Control
- ★ FPGA in outer space
- ★ Nuclear Micro batteries
- ★ Nanotechnology
- ★ Nanomachines
- ★ Humanoid Robots

Applied Science or basic sciences

- ★ Mathematics
- ★ Earth Sciences
- ★ Oceanography
- ★ Physics
- ★ Soil & Waste Management
- ★ Environmental chemistry
- ★ Geology
- ★ Hydrology
- ★ Computer Science
- ★ Material Sciences



SESSIONS AND TRACKS

Topics of Interest for Submission include, but are not limited to:

Mechanical & Aerospace Engineering

- ★ Fluid Mechanics and Fluid Power
- ★ Heat Transfer
- ★ Solid Mechanics
- ★ Refrigeration and Air Conditioning
- ★ Renewable Energy Technology
- ★ Materials Engineering
- ★ Composite Materials
- ★ Industrial Engineering and Management
- ★ Operational Research
- ★ Manufacturing Processes
- ★ Machine Design
- ★ Quality Control
- ★ Maintenance Engineering
- ★ Tribology
- ★ CAD/CAM
- ★ Production Engineering
- ★ Welding Technology
- ★ Robotics
- ★ Metallurgy
- ★ Fatigue and Fracture Mechanics
- ★ IC Engines
- ★ Ergonomics
- ★ Additive Manufacturing
- ★ Structural Analysis
- ★ Noise and Vibration
- ★ Air Pollution and Control
- ★ Automobile Engineering
- ★ Alternate Fuels
- ★ Nano Materials/ Technology
- ★ Synthesis of Mechanisms
- ★ Mechatronics
- ★ Machine Vision
- ★ Fluid Mechanics and Fluid Power



SESSIONS AND TRACKS

Topics of Interest for Submission include, but are not limited to:

Mechanical & Aerospace Engineering

- ★ Heat Transfer and Solid Mechanics
- ★ Renewable Energy Technology
- ★ Innovations in Aerospace Engineering
- ★ Computer Networks and Data Communications
- ★ Machine Learning and AI Applications
- ★ Data Encryption and Cybersecurity
- ★ Robotics and Autonomous Systems

Civil & Environmental Engineering

- ★ Green Construction Materials and Technology
- ★ Construction Management
- ★ Material Engineering
- ★ Optimization and Innovation in Structural Design
- ★ Environmental Impact and Green Design
- ★ Local and Recycle Materials
- ★ Structural Health Monitoring
- ★ Assessment and Retrofitting
- ★ Hybrid and Composite Structures
- ★ Smart Materials and Structures
- ★ Special Structures
- ★ Structural Dynamic and Earthquake Engineering
- ★ Structures in Severe Environment
- ★ Disaster Mitigation and Restoration
- ★ Water Conservation and Wastewater Management
- ★ Water Resource Engineering
- ★ Geotechnical Engineering
- ★ Tunnel Engineering
- ★ Transportation Engineering

Materials Science & Nanotechnology

- ★ Smart Materials and Nanostructured Devices
- ★ Biomaterials and Tissue Engineering
- ★ Applications in Energy Storage and Photovoltaics
- ★ Microscale Fabrication



AGENDA

SCIENTIFIC PROGRAMME (TENTATIVE)

PROGRAMME OVERVIEW

Day 1 – 22nd March 2025

09:00 AM - 09:05 AM	Registration Desk
09:05 AM - 09:10 AM	National Anthem of India
09:10 AM - 09:20 AM	Welcome speech by Moderator
09:20 AM - 09:30 AM	Welcome speech by Special Guest of Honor

Speech by Keynote Speaker

09:30 AM - 10:00 AM



Prof. Dr. Subhas Chandra Mukhopadhyay

Professor of Mechanical / Electronics Engineering
Macquarie University,
Australia.

Speech by Session Speaker

10:00 AM - 10:30 AM



Assoc Prof Dr. Tiruveedula Gopi Krishna

Adama Science and Technology University,
Ethiopia.

Speech by Keynote Speaker

10:30 AM - 11:00 AM



Assoc Prof . Dr. Nurnadiah Zamri

Senior Lecturer
Faculty of Informatics and Computing,
University of Sultan Zainal Abidin,
Terengganu, Malaysia.

11:00 AM - 11:10 AM

Photographic Session

11:10 AM - 11:20AM

Refreshment Break

Speech by Session Speaker

11:20 AM - 11:40 AM



Asst. Prof. Dr. Madhurima Dasgupta

School of Humanities, Management and Social Sciences,
The Neotia University,
India.

11:40 AM - 12:30 PM

Technical Session I

12:30 PM - 01:30 PM

Lunch break

Speech by Session Speaker

01:30 PM - 01:50 PM



Prof. Dr Karuppasamy Periyasamy

Department of Electronics & Communication Engineering
Adithya Institute of Technology,
Coimbatore, India.

01:50 PM - 03:00 PM

Technical Session II

03:00 PM - 03:10 PM

Refreshment Break

03:10 PM - 03:20 PM

Valedictory

03:20 PM - 03:30 PM

Vote of Thanks

AGENDA

SCIENTIFIC PROGRAMME (TENTATIVE)

PROGRAMME OVERVIEW

Day 2 – 23rd March 2025

09:00 AM - 09:10 AM	Welcome Speech by Moderator
09:10 AM - 09:20 AM	Welcome Speech by
09:20 AM - 09:50 AM	Speech by Exclusive Event Speaker
09:50 AM - 10:20 AM	Speech by keynote Speaker
10:20 AM - 11:40 AM	Technical Session 1 A Technical Session 1 B

Speech by Session Speaker

11:40 AM - 12:00 PM



Prof. Dr. Tanuja Satish Dhope (Shendkar)

Department of Electronics and Communication Engineering,
Bharati Vidhyapeeth (Deemed to be University) College of Engineering,
Pune, India.

12:00 PM - 01:00 PM

Lunch Break

01:00 PM - 01:20 PM

Speech by Keynote Speaker

Speech by Session Speaker

01:00 PM - 01:20 PM



Mr. Hardik Ruparel

Nutanix | Founder- Stealth Project
United States.

01:20 PM - 03:00 PM

Technical Session II A

Technical Session II B

Speech by Session Speaker

03:00 PM - 03:20 PM



Assoc. Prof. Dr. Ku Nurul Fazira Ku Azir

Faculty of Electronic Engineering & Technology
Head Centre of Excellence for Advanced Computing
Universiti Malaysia Perlis, Malaysia.

03:20 PM - 05:00 PM

Technical Session III A

Technical Session III B

05:00 PM - 05:10 PM

Valedictory

05:10 PM - 05:20 PM

Vote of Thanks

IMPORTANT DATES

Early Bird
Registration
5th February
2025

Abstract
Submission
20th Februar
2025

Full Paper
Submission
29th January
2025

Final
Registration
4th March
2025

REGISTRATION

****Note: Additional Charges Applicable For Scopus publication (T&C Apply)**

Physical Presentation

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****If any co- author is interested to present physically, there will be an additional Fee applicable per head.**

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Registration Categories	India		Abroad	
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(Using Credit/Debit Card)



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EDITING & REVISION

- Grammatical Corrections
- Proofreading
- Synopsis Editing
- Review
- Language Editing
- Research Paper Editing
- Thesis Editing
- Plagiarism correction
- Case Report Editing
- Formatting

FORMATTING

- Journal Format
- Research Paper Format
- Cover Letter

REVIEW


- Reviewer suggestion
- Book Review
- Research Paper Review
- Reviewer Comments Support
- Thesis Review



Conference Venue
Chennai, India

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Abstracts, Registrations and Payments Inquiries
Program Manager (IFERP)

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