**icRAMIE-2024.com**

***ABOUT CONFERENCE***

ICRAMIE-2024 is the second International Conference on Recent Advances in Mechanical and Industrial Engineering. The aim is to provide a platform for academics, researchers, scientists, practicing engineers, industry experts, research scholars, and students to explore the latest advancements in the fields of Mechanical and Industrial Engineering.

The conference will cover a wide range of topics, including:

Manufacturing and Production Engineering: This theme will focus on the latest developments in manufacturing processes, such as additive manufacturing, and production engineering, such as lean manufacturing and Industry 4.0.

Machine Design: This theme will cover the design of new machines and mechanisms, as well as the analysis and optimization of existing machines.

Fluid/Thermal Engineering: This theme will focus on the latest developments in fluid mechanics, heat transfer, and thermodynamics.

Materials Science: This theme will cover the latest developments in materials science, such as nanomaterials and composite materials.

Industrial Engineering: This theme will focus on the latest developments in industrial engineering, such as ergonomics and supply chain management.

The conference will also feature keynote presentations by leading experts in the Mechanical field

## Serving as a convergence point for academics, researchers, scientists, engineers, industry experts, research scholars, and students, ICRAMIE-2024 aims to foster a collaborative environment for exploring and sharing cutting-edge advancements in Mechanical and Industrial Engineering. This event offers a unique opportunity for attendees to engage in direct interactions, share ideas and experiences, identify potential research problems, establish research partnerships, and discover collaborators for future endeavors. Renowned speakers from academia and industry have been invited to deliver keynote presentations and lead plenary discussions, enriching the conference experience.

## Recognizing the wide spectrum of engineering challenges faced by contemporary society, ICRAMIE-2024 emphasizes the importance of a holistic approach that integrates and transcends multiple mechanical engineering disciplines. The conference underscores the need to focus research efforts from various mechanical engineering streams to provide technological advancements that address and offer solutions to critical engineering concerns.

## ABOUT PVPSIT, VIJAYAWADA

PVP Siddhartha Institute of Technology, established in 1998, is a pioneering private self-financed Institution out of the 18 Academic Institutions run under the aegis of the premier Organization, Siddhartha Academy of General & Technical Education, Vijayawada.

PVP Siddhartha Institute of Technology is located in the serene ambience of Kanuru, surrounded by lush green fields in the milieu of Vijayawada, the second largest city of Andhra Pradesh. The city, which is built on the banks of the Krishna, is recognized as a “Global City of the Future” by McKinsey Quarterly and known as one of the commercial hubs of South India. At a distance of 8 kms from the heart of the city, the Institution is well connected by Rail, Road and Air. The Institution is established in an area of 19.98 acres land.

Established with the sole aim of promoting Quality Technical Education, the Institution has a vision to foster Academic and Professional excellence of the students. Renowned for Academic Excellence and Sustenance of Quality, the Institution is ISO 9001-2015 certified.

The Institution is accredited by NAAC in 2013 with ‘B’ grade and later conferred with ‘A+’ Grade in 2017 in recognition to the quality initiatives and standards. UGC conferred Autonomous Status to the Institution in 2012. The college is accorded 2(f) and 12(B) status by UGC. State Government awarded ‘A’ grade to the Institution. MHRD ranked the Institution as 141 in the Academic Institutions in NIRF ranking. Careers 360 ranked the Institution with AAA+. The college secured 124th position in India Today ranking. The Institution secured 36th position in Data Quest.

*Editorial Member*

Dr. Lakshmi Narayana Gollapudi

Faculty of Mechanical Engineering,

School of Engineering,

EDICT, Bahrain Polytechnic

Kingdom of Bahrain

Email: gollapudi.narayana@polytechnic.bh

INTERNATIONAL ADVISORY COMMITTEE

|  |
| --- |
| **Dr. RAMESH T. SUBRAMANIAM**  Senior Professor, Department of Physics, Faculty of Science, Universiti Malaya,  50603 Kuala Lumpur, Malaysia |
| **Dr. ASWANI KUMAR BANDARU**  Marie Skłodowska Curie Fellow,  Bernal Institute, School of Engineering,  University of Limerick,  Limerick, Ireland  *.* |
| **Dr. Christina Georgontoupolou**  **Faculty of Mechanical Engineering, EDICT, Bahrain Polytechnic,**  **PO Box 33349, Isa Town**  **Kingdom of Bahrain**  **Email: christina@polytechnic.bh** |
| **Dr.Ahmed Abdelrhman**  **Faculty of Mechanical Engineering, EDICT, Bahrain Polytechnic,**  **PO Box 33349, Isa Town**  **Kingdom of Bahrain**  **Email: Ahmed.Abdelrhman@polytechnic.bh** |
| **Dr. Dimitrios Mathioulakis**  **Faculty of Mechanical Engineering, EDICT, Bahrain Polytechnic,**  **PO Box 33349, Isa Town**  **Kingdom of Bahrain**  **Email: Dimitrios.Mathioulakis@polytechnic.bh** |
| **Dr. Wajid Khan**  **Faculty of Mechanical Engineering, EDICT, Bahrain Polytechnic,**  **PO Box 33349, Isa Town**  **Kingdom of Bahrain**  **Email: Wajid.Khan@polytechnic.bh** |
| **Dr.Subramanian Chitambaram**  **Faculty of Mechanical Engineering,**  **School of Engineering,**  **EDICT, Bahrain Polytechnic**  **Kingdom of Bahrain**  **Email: s.chithambaram@polytechnic.bh** |
| National ADVISORY COMMITTEE |
| **Dr. V.RAJ KUMAR**  Scientist  Defence Research and Development Lab  DRDO, Ministry of Defence  Govt.of India, Kanchanbagh PO,  Hyderaba-500058 (T.S), India |
| **Dr. VENU GOPAL. A**  Professor (HAG)  Department of Mechanical Engineering  National Institute of Technology, Warangal - 506004, Telangana, INDIA  Contact id: venu@nitw.ac.in |
| **Dr. PUTTI SRINIVASA RAO**  Professor, Mechanical Engineering Department, Andhra university Andhra University Andhra University, Waltair, Andhra Pradesh, India  Contact id: prof.psrinivasarao@andhrauniversity.edu.in |
| **Dr. V.PANDU RANGA**  Professor  School Of Mechanical Sciences,  Iit Bhubaneswar, Odisha, India  Contact id: Pandu@Iitbbs.ac.in |
| **Dr. N. MOHAN RAO**  Professor & Director, Iiip & Training And Skill Development Center,  Jntuk, Kakinada,  Andhra Pradesh, India |
| **Dr. GUJJALA RAGHAVENDRA**  Assistant Professor  National Institute of Technology, Warangal |
| **Dr.G.Raja Vamsi**  Deputy General Manager,  R&D, Jyoti Ltd.  **Nanubhai Amin Marg,**  **Industrial Area, P.O.**  **Chemical Industries,**  **Vadodara 390 003, INDIA** |
| **Dr. Santhosh Gosh**  Deputy General Manager,  Kirloskar Brothers Limited,  Pune |

## ORGANIZING COMMITTEE

#### Chief Patron(s)

Sri Ch. Nageswara Rao, President, SAGTE.

Sri. P. Lakshmana Rao, Secretary, SAGTE

Sri. S. Venkateswara Rao, Treasurer, SAGTE

Sc V. Nagabhushana Rao, Convenor, PVPSIT

Patron : Dr. K Sivaji Babu, Principal, PVPSIT.

Convenor. Dr.B.Raghu Kumar,Prof.& HOD, Dept. of ME

Co-Convenors: Dr. P.Phani Prasanthi,Asso. Professor, Dept. of ME

Dr. P.Ravi Prakash Babu,Asso. Professor, Dept. of ME

Technical Committee

Dr.B.Raghu Kumar

Dr.M.S.R.Niranjan Kumar

Dr. K. Srividya,

Mr. U.Koteswara Rao,

Dr. M. Naga Swapna Sri

Dr. Abdul Kalam

Dr.P.Anusha

Dr.Ch.Kishore Reddy

Dr. K.I.V.Vandana

Mr. T.Sri Nag

Mr. N.Raghuram

Organizing committee

Ms. E. Kavitha

Mr. G.Bala Krishna

Dr. M.Rajya Lakshmi

Mr.K.Venkata Rao

Mr. Ch. Lakshmikanth

Mr. P.Mastan Rao

Mr. Ch. Mohan Sumanth

Mr. P.Gopala Krishnaiah

Ms. Ch.Vidya

Dr. M.Somaiah Chowdary

Ms. M.Radha Devi

Mr.T.J.Prasanna Kumar

Mr.J.Surendra

Ms. V.Sravani

Mr. I.Manoj Kumar

## IMPORTANT DATES

## LAST DATE FOR SUBMISSION OF ABSTRACT 1st December, 2024

## ABSTRACT ACCEPTANCE NOTIFICATION within 7 days of abstract submission

## LAST DATE OF SUBMISSION OF FULL LENGTH MANUSCRIPT 31st January, 2024

## MANUSCRIPT ACCEPTANCE NOTIFICATION 15th Feb, 2024

## CONFERENCE DATES 22-23, March 2024 (Friday and Saturday)

## CALL FOR PAPERS

#### Manufacturing

* **Advanced Manufacturing Processes**
* **Additive Manufacturing**
* **Industry 4.0**
* **Conventional Machining Processes**
* **Non-conventional Machining Processes**
* **Micro Machining**
* **Materials Processing**
* **Primary and secondary atomization**

#### Fluid and Thermal

* **Heat and Mass transfer**
* **Refrigeration & Air conditioning**
* **Heat Exchangers**
* **Flow measurements**
* **Non-Conventional Energy Resources**
* **Combustion & Pollution**
* **Colloidal and Suspensions**
* **IC Engines**
* **Fuels**
* **Computational Fluid Dynamics**

#### Materials

* **Nano Materials**
* **Advanced Composite Materials**
* **Materials Characterization**
* **Polymer composites**
* **Metal matrix composites**
* **Functionally graded materials**
* **Renewable Materials**
* **Advanced Computational materials**
* **Bio- Materials**
* **Advanced Energy Materials**
* **Metals, ceramics & polymers**

#### Design

* **Computational Mechanics**
* **Materials failure analysis**
* **Engineering Optimization**
* **Finite element analysis**
* **Machines and Mechanisms**
* **Lightweight automobiles**
* **Mechanics of Composites**
* **Product design & development**
* **Fatigue and Creep**
* **Robotics**
* **Tribology**
* **Vibrations**
* **Fracture Mechanics**
* **Vehicle Dynamics**

Top of Form

## PUBLICATIONS

**SELECTED PAPERS FROM THE CONFERENCE WILL BE PUBLISHED IN SPRINGER LECTURE NOTES IN MECHANICAL ENGINEERING**

**Under Communication**

#### 

Proceedings



Proceedings

## REGISTRATION FEE

| **Category** | **Early Bird Before 5th March 2024 (Indian Participants)** | **Regular (Indian Participants)** | **Early Bird Before 5th March 2024 (Foreign Participant)** | **Regular (Foreign Participant)** |
| --- | --- | --- | --- | --- |
| **Author participation fee for Materials Today Proceedings (Elsevier) and Lecture Notes in Mechanical Engineering (Springer)** | 4500 INR | 5000 INR | 100 USD | 120 USD |

###### **REGISTRATION LINK (for Indian Authors): WILL BE AVAILABLE SOON**

###### **REGISTRATION LINK (for Foreign Authors): WILL BE AVAILABLE SOON**

## SPEAKERS

|  |
| --- |
| Dr. RAMESH T. SUBRAMANIAM  *Senior Professor, Department of Physics, Faculty of Science, Universiti Malaya,*  *50603 Kuala Lumpur, Malaysia* |
| Dr. ASWANI KUMAR BANDARU  *Marie Skłodowska Curie Fellow,*  *Bernal Institute, School of Engineering,*  *University of Limerick,*  *Limerick, Ireland*  *.* |