

# 4TH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN MECHANICAL ENGINEERING RESEARCH AND DEVELOPEMENT- (ICRAMERD-2023)

20-22 JULY 2023

Organized By

Department of Mechanical Engineering, Institute of Technical Education and Research  
Siksha O Anusandhan, Deemed to be University, Bhubaneswar, Odisha.



## Chief Patron

Prof. (Dr.) Manojranjan Nayak, Founder and President, Siksha 'O' Anusandhan (Deemed to be University)

## Patron

Prof. (Dr.) Bijoy Kumar Sahoo, Vice Chancellor, S'O'A Deemed to be University

Prof. (Dr.) Dripti Kumar Nanda, Pro-Vice Chancellor, S'O'A Deemed to be University

Prof. (Dr.) Bibhuti Bhusan Pradhan, Pro-Vice Chancellor, S'O'A Deemed to be University

## Finance Chair

Prof. (Dr.) Manas Kumar Mallik, Director, ITER, Deemed to be University

## General Chair

Prof. (Dr.) D. N. Thatoi, Additional Dean (Academics), S'O'A Deemed to be University

Prof. (Dr.) S. K. Acharya, Head of the Department, Mechanical Engineering, ITER, S'O'A Deemed to be University

## Principal Coordinators

Prof. (Dr.) J. K. Nath, Dean, Research and

Development, S'O'A Deemed to be University

Prof. (Dr.) P. Pattnaik, ITER, S'O'A Deemed to be University

## Programme Coordinator

Dr. Sasanka Choudhury, ITER, S'O'A Deemed to be University

## Convenor

Dr. Pragyan Senapati, Dept. of Mechanical Engineering, ITER S'O'A Deemed to be University

## Co. Convenor

Dr. Prasanta Kumar Sahoo, Dept. of Mechanical Engineering, ITER, S'O'A Deemed to be University.

Dr. Tanmayee Khuntia, Dept. of Mechanical Engineering, ITER, S'O'A Deemed to be University

## Important Dates:

**Conference Date: 20th -22nd of July 2023**

**Last Date of Paper Submission: 30th of April 2023**

**Notification of Paper Acceptance: 15th of May 2023**

**Submission of Camera-Ready Paper: 15th of June 2023**

**Last Date of Registration: 15th of June 2023**

## Local Advisory Board

Prof. (Dr.) P.K. Sahoo, Dean, ITER, S'O'A Deemed to be University

Prof. (Dr.) Mohanty, Research Advisor, S'O'A Deemed to be University

Prof. (Dr.) J. K. Nath, Dean, Research and Development, ITER, S'O'A Deemed to be University

Prof. (Dr.) D. Acharya, Chairman of Advisory Board, SOA Deemed to be University

Prof. (Dr.) S. Patnaik, Director, IRP, SOA (Deemed to be University)

Prof. (Dr.) S. K. Kamila (Head, IPR Cell), ITER, SOA Deemed to be University

Prof. (Dr.) U. K. Mohanty, Professor, ITER, S'O'A Deemed to be University

Prof. (Dr.) R. K. Bhoi, Professor, ITER, S'O'A Deemed to be University

Prof. (Dr.) N. Kavi, Professor, ITER, S'O'A Deemed to be University

Prof. A. Mishra, Professor, ITER, S'O'A Deemed to be University

Prof. J. Bala, Professor, ITER, S'O'A Deemed to be University

Prof. (Dr.) H. K. Sarangi, Professor, ITER, S'O'A Deemed to be University

Prof. (Dr.) P. Pradhan, Professor, ITER, S'O'A Deemed to be University

Prof. (Dr.) S. Bhuyan, Professor, ITER, S'O'A Deemed to be University

Prof. (Dr.) D. K. Mishra, Professor, ITER, S'O'A Deemed to be University

## Publications

**The selected papers will be called for presentation and considered for publication in Springer and Materials Today Proceedings**



Springer



## Organizing Committee

Dr. Abinash Mahapatro

Dr. Ajay Kumar Behera

Dr. Anupama Routray

Mr. Ashok Sahoo

Dr. B. S. Mahanto

Dr. Binayak Pattanayak

Mr. Debasis Dey

Dr. Jaineswar Nanda

Dr. Manoj Kumar Nayak

Dr. Pragyan Patnaik

Dr. Priyaranjan Biswal

Mr. Rajat Kumar Das

Mrs. Rashmi Ray

Dr. Sikata Samantaray

Dr. Sasmeeta Tripathy

Mrs. Sangita Sarangi

Dr. Sankar Narayan Das

Dr. Seshadev Sahoo

Mr. Soumya Aditya Ohid

Mr. Shashendra Kumar

Sahoo

Dr. Shakti Prakash Jena

Dr. Siba Sankar Mohapatra

Mr. S. R. Rout

Dr. Subhrajit Beura

Ms. Swetarani Biswal

Dr. TanmayeeKhuntia

Dr. Tapaswinee Das

For more details please visit the conference website

[www.icramerd.com](http://www.icramerd.com)



### National and International Advisory Board

Prof. Rajiv O. Dusane, IIT Bombay  
 Prof. S. A. Sherif, University of Florida  
 Prof. Ranjit Pati, Michigan Technological University  
 Prof. H. Hirani, IIT Delhi  
 Prof. A. A. Fakhrabadi, Universidad de Chile, Santiago  
 Prof. A. K. Nath, IIT Kharagpur  
 Prof. D. Mohapatra, School of Materials Science and Engineering, Yeungnam University, South Korea.  
 Prof. R. Aepuru, Universidad de Chile, Beauchef 851, Santiago 8370456, Chile  
 Prof. R. V. Mangalaraja, Universidad Adolfo Ibáñez, Santiago  
 Prof. H. Fulara, Indian Institute of Technology Roorkee  
 Prof. J. Singh, Indian Institute of Technology Jodhpur  
 Dr. Sachin Kumar Mangla, Plymouth Business School, University of Plymouth, United Kingdom  
 Dr. N. Wadibhasme, First Solar  
 Prof. Nagsen Meshram, Institute of Chemical Technology, Maharashtra  
 Dr. S. Mantry, Principal Scientist, IMMT Bhubaneswar  
 Prof. H. Sutar, Assistant Professor, IGIT Sarang

### Conference Themes

Main topics to be covered in this conference, but are not limited to

- MATERIALS ENGINEERING
- INDUSTRIAL AND SYSTEMS ENGINEERING
- MANUFACTURING SYSTEMS ENGINEERING
- AUTOMOTIVE ENGINEERING
- THERMAL SYSTEMS ENGINEERING
- DESIGN ENGINEERING
- ASSURANCE ENGINEERING
- ENERGY ENGINEERING

### Registration

Participant Category	India and SAARC Country (INR)	Early Bird* (INR)	Overseas (USD)	Early Bird* (USD)
Industry Delegates	4500	4000	90	85
Academic Delegates	4000	3500	80	75
Students	3500	3000	60	70

\*Early bird offer is valid upto 15 June, 2023.

### Submission Type

Authors are requested to follow the template  
 10-point Times New Roman, Single-spaced.  
 Abstract Length 200-250 words  
 3-5 Keywords  
 One-column

Full paper can be submitted in MS word format only.  
 Regular full paper length limit is 8-10 pages including figures, tables and references.

There must be clear visibility of the following points in the manuscript.

### Purpose/Objectives

### Methodology/Approach

### Findings/Results

**Please Note:** Authors are encouraged to check the similarity index of the manuscript before submitting to the conference. Papers with plagiarism  $\leq 15\%$  will be accepted.

### Submission Method

Submit your paper via the following google form  
<https://forms.gle/bWRdJFHcNFuHomPu8>

For more information, please contact us.

Conference official email address: [icramerd23@soa.ac.in](mailto:icramerd23@soa.ac.in)

### Convenor

Dr. Pragyansenapati, Email: [pragyansenapati@soa.ac.in](mailto:pragyansenapati@soa.ac.in). Mob: 9439583624

### Co-Convenor

Dr. Prasanta Kumar Sahoo, Email: [prasantakumarsahoo@soa.ac.in](mailto:prasantakumarsahoo@soa.ac.in). Mob: 8249032759

Dr. Tanmayee Khuntia, Email: [tanmayeekhuntia@soa.ac.in](mailto:tanmayeekhuntia@soa.ac.in). Mob: 9437672050

### Bank Details:

Account No: 50200050207231  
 Beneficiary Name: SIKSHA O ANUSANDHAN UNIVERSITY  
 Bank: HDFC BANK  
 IFSC Code: HDFC0003722  
 BRANCH: HDFC BANK, JAGAMARA, BHUBANESWAR

After registration please send the payment details to  
[icramerd23@soa.ac.in](mailto:icramerd23@soa.ac.in)