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Prospective authors of contributory papers are re-  
quested to submit their full paper manuscripts limit-  
ed to a maximum of 06 pages in Scopus indexed  
journals/proceedings.

<https://easychair.org/my/conference?conf=icamie2020#>

### Website link:

<https://event.kiit.ac.in/icamie2020/>

### Important Dates

Full paper Submission Last date: 20 /11/2020  
Notification of Acceptance: 25/11/2020  
Revised Paper Submission: 30/11/2020  
Registration Status: 30/11/2020

### Registration Details

The registration fees details are as  
follows:

### Delegates Registration fee(Rs)

National delegates(Industry / R&D)	Rs.6000/-
National Delegates(Academia)	Rs.3000/-
Student Delegates(Research Scholars)	Rs.3000/-

### International Delegates/Industry

International Delegates Industry/R&D	130 \$
Academia	109\$
Student/Research scholar	109\$

**Payment towards registration fees should be made  
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IFSC Code: HDFC0003951  
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KIIT Deemed to be University ICBDEA 2020



# ICAMIE-2020

International Online Conference  
On

**ADVANCES IN MECHANICAL  
AND  
INDUSTRIAL ENGINEERING**

(11<sup>th</sup>-13<sup>th</sup> December 2020)



### ORGANISED BY

School of Mechanical Engineering  
KIIT, Deemed to be University  
An Institute of Eminence  
Bhubaneswar (751024)  
Odisha, India

### CONTACT DETAILS

Suchismita Satapathy  
7008252557  
ssatapathyfme@kiit.ac.in  
Smita Rani Panda  
7978957460  
smitarani.pandafme@kiit.ac.in

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Bhubaneswar, Odisha, India

AN INSTITUTE OF EMINENCE



## AIM AND SCOPE

Aim of the International Conference on International Conference on **ADVANCES IN MECHANICAL AND INDUSTRIAL ENGINEERING ICAMIE-2020** is to solidify knowledge of sister branches of researches on mechanical engineering applied to Industry, health sectors, Energy sector, Agricultural sector etc. Mechanical Engineering is a core branch of Engineering with its own peculiarities and very diverse areas of action, and in recent years multiple new techniques and technologies have been introduced includes materials (new/smart), design analysis, high-end imaging, fabrication methods and thermal engineering, Automobile Engineering, industrial Engineering, financial Engineering, Engineering Management, Materials Engineering aspects. ICAMIE-2020 will widen the scope of bringing together innovators, researchers and industries under common goal – creating, evaluating, implementing and benefiting from innovations in the areas of engineering applications. It will thus support innovative projects and bring benefits to all involved participants. Participants from Universities, Institutes, Associations, Companies, Consultancies, R&Ds etc. from India and abroad will be invited. The aim of ICAMIE-2020 to be one of the most influential channels transferring innovative ideas from academia to industry thereby these ideas may start to generate consultancy, projects and collaborations. The novel idea to conduct this type of conference to discuss social and industrial problems and try to find a way to resolve their solutions by advanced methods and methodologies like soft computing techniques, Multicriteria decision making algorithm, Internet of Things, technologies, Artificial intelligence, Robotics etc. It will thus support innovative projects and bring benefits to all involved participants. Participants from Universities, Institutes, Associations, Companies, Consultancies, R&Ds etc. from India and abroad will be invited to online forum for spreading knowledge and ideas. ICAMIE-2020 will be successful being the multi-disciplinary conference of its first kind and aims to be one of the most influential channels transferring innovative ideas from academia to industry thereby these ideas may start to generate consultancy, projects and collaborations.

## Publication

1. Thematic issue (Thermal & Energy Engg): Int. j. of logo Energy for a clean Environment (scopus), Begell House Journal.
2. Thematic issue (Industrial & Sustainable Engg.): Int. j. of social ecology as sustainable development (scopus), IGI Global
3. Proceedings of International conference on Advances in Mechanical & Industrial Engg. ICAMIE2020, (Materials, Design & Manufacturing processes & systems) Taylor & Francis Book India Pvt Ltd (CRC Press) (Scopus & WOS)

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Authors are requested to kindly refrain from plagiarism in any form to provide quality publication. Authors should submit their original work/ unpublished work/paper not under consideration under publication elsewhere. As per copyright transfer agreement, authors are deemed to be individually or collectively responsible for the content of manuscript published by them.

## The Conference theme includes the following broad areas of Mechanical and Industrial Engineering

The contributions will be from different countries and provide a comprehensive coverage of the current state-of-the-art on several scientific and relevant fields, such as:

- Acoustics and its applications
- CAD/CAM
- Noise and Vibration
- Product development
- Dynamic Mechanical Analysis, Optimization and control
- Fatigue and Fracture Mechanics
- Finite Element Analysis for Mechanical Engineering
- Fluid Mechanics and Fluid Power
- Machine Design
- Artificial Intelligence and machine learning
- Automation and Robotics
- Internet of Things (IOT)
- Ceramic
- Composite Materials
- Composites
- Renewal Energy
- Biomaterials
- Additive Lean & Green Manufacturing
- CAD, CAE and CAM
- Computer-Integrated & Computer-Assisted Surgery
- Decision Making & Optimization
- Flexible electronics manufacturing
- High-Performance Machining
- Industry 4.0
- Intelligent Systems in Mechanical Design and Manufacturing
- Logistics and Supply Chain Management
- Nanotechnology Engineering
- NC, CNC, FMS & CIM
- Non-Destructive Testing Techniques
- Finance Management
- Engineering Management
- Quality Control and Management
- Structural Health Monitoring
- System Analysis and Industrial Engineering
- Energy Mgmt.
- Tool Condition Monitoring
- Aerospace and Automobile Engg.
- Tribological (Surface Engineering / Coatings Technology etc.)
- Thermal Engg, Heat Transfer
- Fluid mechanics
- Lubrication etc.
- Engineering Design Methodology and Design Models
- Ergonomics

Moreover, focus will also be given on the techniques and methodologies covered include, the finite element method, experimental techniques, composite materials, clinical studies, bio-materials, rapid prototyping, fracture mechanics. The Conference will be useful to engineers, researchers and students and academicians. All submitted papers will be evaluated by the conference reviewer committee in terms of quality, originality of approach and relevance to the theme of the conference.

## ABOUT OUR FOUNDER- PROF. ACHYUTA SAMANTA

Prof. Achyuta Samanta, after obtaining Master's Degree in Chemistry in 1987 from Utkal University, started his career at 22 years of age. He has 30 years of teaching experience to his credit so far. A visionary social architect who embarked on a social development mission in 1992-93 using education as the strategic medium to eradicate poverty and alienation from the surface of the earth, a goal envisaged by the global leaders as Sustainable Development Goals (SDGs). In 2018, he was elected as a Member of Parliament to Rajya Sabha (Upper House). From 2019, he is Member of Parliament, Lok Sabha representing Kandhamal Constituency. He is the Founder of KIIT Deemed to be University – a multi-disciplinary University with a current student strength of 30,000 students from all over India and 55 countries across the globe, Kalinga Institute of Social Sciences (KISS) – world's largest fully-free residential KG-PG institute for 50,000 tribal children, Kalinga Institute of Medical Sciences – a medical college with 2500 bedded hospital and other allied institutes like Dental and Nursing Colleges; KIIT International School, Kadambini Media Pvt Limited (for promoting art, literature, and culture).

## ABOUT KIIT (Deemed to be University)

Kalinga Institute of Industrial Technology (KIIT) deemed to be university located at Bhubaneswar, Odisha, India. KIIT is unique among its peer institutions in having nineteen schools co-located on one contiguous campus offering more than 100 programs including UG/PG studies in the disciplines including engineering, management, medicine and law. KIIT has been awarded Tier-1 status by NBA(AICTE) accredited with Grade'A' by NAAC(UGC), ranked 42nd among the Indian universities ranked by NIRF, Govt. of India and has been accredited by IET, U.K. Its sister institution, Kalinga Institute of Social Science (KISS) has the distinction of being the largest and first tribal university of the world. KIIT & KISS have been founded by eminent educationist and social activist Prof. (Dr.) Achyuta Samanta. Detailed information about KIIT and KISS Deemed to be university can be obtained from: <https://www.kiit.ac.in> ; <https://www.kiss.ac.in>.

## ABOUT THE SCHOOL OF MECHANICAL ENGINEERING

The School of Mechanical Engineering, possess highly qualified and experienced faculty members from various IIT's NIT's and other reputed institutions. The current consultancy and research & development areas of school include jet and spray impingement heat transfer, droplet and spray combustion, computational fluid dynamics, mechanical system designs and optimization, biomass and biofuels, vibration and machine condition monitoring, meta machining, metal matrix/polymer matrix composites. We have to our credit a good number of publications in reputed SCI/Scopus indexed journals, patents and projects funded by bodies like AICTE, DST, DRDO, Institution of Engineers (IE), Govt. of India.

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# ICAMIE-2020 INTERNATIONAL ONLINE CONFERENCE ON ADVANCES IN MECHANICAL AND INDUSTRIAL ENGINEERING

11<sup>TH</sup>-13<sup>TH</sup> DECEMBER 2020

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