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PUBLICATION & PROCEEDINGS :

- All papers accepted for presentation will be published in "International Journal of Scientific Research in Science, Engineering and Technology", which is under UGC CARE (UGC No. 47147, ISSN: 2395- 1990).
- Authors can also opt for the publication in Scopus Indexed "Journal of Mines, Metals and Fuels" (Q4) by paying an Article Processing Fee of Rs: 3500/- (Acceptance based on reviewer comments).
- A souvenir will be brought out on the occasion of the conference with details of the program, abstracts, list of sponsors and advertisements.

International Conference on Recent Developments in Mechanical Engineering

[ICRDME 2022]

Announcement and Call for Papers (Hybrid Mode)

Venue

Siddaganga Institute of Technology

Tumakuru - 572 103, Karnataka, India

June 24th & 25th, 2022

Organized by



Department of Mechanical Engineering

and Associate Departments

Dept. of Electrical & Electronics Engg.
Dept. of Electronics & Instrumentation Engg.
Dept. of Chemistry

Siddaganga Institute of Technology

(An Autonomous Institution affiliated to Visvesvaraya Technological University, Belagavi
Approved by AICTE, New Delhi, Accredited by NAAC with 'A' Grade
Awarded Diamond College Rating by QS I-Gauge, and ISO 9001:2015 Certified)

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In association with

Visvesvaraya Technological University, Belagavi

Indian Institute of Metals, Bangalore Chapter

Indian Institute of Foundrymen, Bangalore Chapter

ASM International, Bangalore Chapter

ABOUT TUMAKURU

Tumakuru is a district headquarter in Karnataka state situated on NH-4 (Bangalore-Pune highway) at a distance of 60 km from Bangalore and 85 Km from the Bangalore International Airport. The earliest record of the district exists from 400 A.D The district is known for the production of coconuts, hence colloquially called as 'Kalpataru Nadu'. The district consists of elevated land intersected by river valleys. Tumkuru is being developed as a smart city under central government program. Tumakuru is also a part of Chennai-Bangalore industrial corridor and has emerged as an important center for education, industry and commerce in the state. In and around Tumakuru there are several historical places to visit, such as, Siddaganga, Shivagange, Devarayanadurga, Yedeyur, Shravanabelagola, Belur, Halebeedu, etc.

About SIT

The Siddaganga Institute of Technology (SIT), Tumakuru was established in the year 1963 by Sree Siddaganga Education Society (SSES), founded and nurtured by His Holiness Dr. free Sree Sivakumara Swamiji, a centenarian. The college is an autonomous institution affiliated to Visvesvaraya Technological University (VTU), Belagavi, Karnataka, approved by AICTE, New Delhi and programmes accredited by NBA, New Delhi. At present, the institute offers 13 Undergraduate Programmes and 11 Postgraduate programmes. The institute has well qualified, experienced and competent faculty. 15 research centers of the institute are recognized by Visvesvaraya Technological University and offer Ph.D. and M.Sc. (Engg.) by research.

Department of Mechanical Engineering has well qualified and committed faculty, out of whom 27 are doctorates along with well-equipped laboratories, workshops and other infrastructural facilities.

The faculty member are actively involved in research and industry interaction. Major areas of specialization in the department are Materials Engineering, Design Engineering, Manufacturing Engg, Thermal Engineering and Management

Department is one of the research centers recognized by Visvesvaraya Technological university. It has well equipped Advanced Materials laboratory and Bio-energy Information and Research Center. Twenty five research scholars have been awarded Ph.D degree and about thirty five are currently pursuing Ph.D. in Department's research center.

PREAMBLE

The main objective of the conference is to showcase current developments in the field of Mechanical Engineering. Recently, there is a surge of innovation in Mechanical Engineering especially due to rapid developments in Electric Mobility, Additive Manufacturing, Industrial Internet of Things, Industry 4.0. and Pandemic Mitigation Solutions. This has resulted in a surge of cutting-edge research in various fields of mechanical engineering, like design, materials, manufacturing and thermal sciences. The outcomes derived from this interdisciplinary research will have positive cascading effect on all humans. Hence, this conference intends to create platform for researchers to showcase their work and provide and receive new perspective on the way forward. It is envisaged that such interactions would stimulate seminal research. The keynote lectures by experts would expose budding researchers on various opportunities in their field of interest. It is earnestly hoped that the conference will be of great success in bringing together researchers from industries and academia. The research scholars pursuing their Doctoral / Masters work are invited to present their original work and participate in ICRDME-2022, at tranquil campus of S.I.T, Tumakuru

SCOPE

The Conference will have oral and poster paper presentations covering topics :

I Design Engineering

- ◆ Numerical analysis
- ◆ Fatigue and Fracture Modeling
- ◆ Acoustics and Vibration control
- ◆ Non-Linear Finite Element methods
- ◆ Nonlinear Dynamics
- ◆ Solid Mechanics
- ◆ System Dynamics and Simulation
- ◆ Structural Dynamics

II Materials Engineering

- ◆ Advanced Materials and their Processing
- ◆ Composite materials and Hybrid Composites
- ◆ Smart materials and Shape memory alloys
- ◆ Functional Materials
- ◆ Metal Forming and Joining Modelling and Simulation
- ◆ Materials Characterization
- ◆ Physical Metallurgy
- ◆ Corrosion and Tribology of metals
- ◆ Nano Materials Synthesis and Processing

III Manufacturing

- ◆ Industry 4.0
- ◆ Additive Manufacturing
- ◆ Lean and Agile Manufacturing
- ◆ CAD/CAM and Flexible Manufacturing
- ◆ Robotics / CIM and Rapid Prototyping
- ◆ Non-Traditional Machining and Manufacturing
- ◆ Intelligent Processing and Manufacturing
- ◆ Metrology and Instrumentation Measurement
- ◆ Design Optimization in Manufacturing

IV Management

- ◆ Logistics and Supply Chain Management
- ◆ Total Quality Management
- ◆ Lean Six Sigma
- ◆ Business Process Re-Engineering
- ◆ Project Management
- ◆ Quality Management Systems
- ◆ Innovation & Entrepreneurship

V Thermal Sciences and Fluid Mechanics

- ◆ Computational Fluid Dynamics
- ◆ Fuel Cells
- ◆ Gas Turbines
- ◆ I.C. Engines and Combustion
- ◆ Alternate Fuels and Bio-Fuels
- ◆ Heat and Mass Transfer
- ◆ Non-Conventional Energy Systems
- ◆ Hybrid Vehicles

CALL FOR PAPERS

Original Research Papers on the above themes are invited from all Researchers, Academicians and Professionals.

IMPORTANT DATES

Last Date for abstract Submission	06th May 2022
Communication of abstract acceptance	10th May 2022
Last Date for full paper Submission	30th May 2022
Communication of full paper acceptance	05th June 2022
Conference Date	24th & 25th June 2022

REGISTRATION & PUBLICATION FEE

Registration Fee - UG Scholars	Rs. 1000/-
Registration Fee - PG / Research Scholars (Indian Delegates)	Rs. 1500/-
Publication Charges for Scopus Index Journal	Rs. 3500/-
Registration Fee - Research Scholars (Foreign Delegates)	\$ 100/- or Rs. 7500/- (Including Publication Charges)

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erp.sit.ac.in/external.aspx

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