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Papers should be submitted to corresponding email: icdsme mech@cbit.ac.in

### **Publication**

All accepted, registered and presented papers will be published in ISBN online series. Selected papers will be published in the **Scopus Indexed Journals** with additional charges.

### Conference e-Souvenir

Conference e-Souvenir will be brought out during ICDSME-2021 and will include abstracts of all the selected papers.

# **Important Dates**

Last Date for Submission: 05 March 2021 Acceptance Intimation : 15 March 2021 Last Date for Registration: 20 March 2021

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# 1<sup>ST</sup> INTERNATIONAL E-CONFERENCE "DEVELOPMENTS IN SUSTAINABLE MATERIALS. MANUFACTURING AND **ENERGY ENGINEERING**" (ICDSME-2021)

3rd - 4th April. 2021

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# Organized by **Department of Mechanical Engineering** Chaitanya Bharathi Institute of Technology

(Autonomous under UGC)

Affiliated to

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### **About CBIT**

CBIT is one of the premier Engineering Institutes in India, pioneer in Telangana State, which is at idyllic surroundings of Gandipet Lake, Hyderabad. The college offers Nine UG and Eleven PG programs. It has been standing as a temple of knowledge for the past 42 years by producing more than 25,000 Eminent and skillful Graduate Engineers, who are successful in their Careers, serving all over the Globe. Brilliant and Meritorious Candidates with good EAMCET Rank are seeking admissions at CBIT. CBIT Students are prepared and perfected to secure Placements in reputed MNCs. The Institute has been accredited by NAAC – UGC with 'A' Grade and the various programs are accredited by NBA - AICTE. The UGC has granted Autonomous Status from the Academic Year 2013-14 onwards. The Grants received from AICTE/UGC are worth about Rs. 2.75 Crores. Stringent Academic Standards, Industry Compliant Teaching Methodology, Research Projects from Private and Public Sector organizations Industries in Engineering and Management and Consultancy Practice, enabled the Institute to establish its Identity in the Technical Education and is Ranked No. 1 amongst the Private Engineering Colleges in both the Telugu Speaking States.

### **About the Conference**

International Conference on Developments in Sustainable Manufacturing and Energy engineering materials. (ICDSME2021) aims to attract the research communities to promote fusion between theory and practice and explore different perspectives on the application of research findings into practice. This conference will provide an excellent platform to the faculty, research scholars and students to present their research work. A Two-Day International Conference on Developments in Sustainable Manufacturing and Energy engineering materials. (ICDSME2021) is being organized during 3-4 April, 2021. This conference aims at bringing together researchers, developers, consultants, academicians and students to present their research work discuss and exchange ideas about the present and future developments in the latest technologies in the areas of Engineering consists of both invited and contributed papers.

Due to the continued impact of the COVID-19, the ICDSME-2021 has decided to make the conference a virtual event.

# **Call for Papers**

ICDSME-2021 invites papers related to various fields and recent developments in Mechanical Engineering for presentation. The papers and invited talks by eminent practicing engineers are expected to benefit the participants. Papers selected and presented in ICDSME- 2021 will have opportunity to be published in proceedings with ISBN and Scopus Indexed Journals.

# Conference Tracks

# Materials:

Advanced Materials, Mechanical behavior of materials, Phase transformations, Fatigue & fracture mechanics, Severe plastic deformation, Nano materials, Materials for aerospace applications, Materials for thermal/Nuclear power plants, Ultra-fine-grained materials, Ceramic Materials, High entropy alloys, Functional materials, Composite materials, Bio materials, Optical/Electronic/Magnetic materials, Building Materials, Materials characterization, Renewable materials, Corrosion control, Heat treatment, Powder metallurgy, Synthesis of materials, High temperature Materials, Functionally gradient materials

### **Manufacturing:**

Micro manufacturing, Precision Technologies, Additive Manufacturing, Advanced Machining Processes, Non-Traditional. Micro and Nano Machining. Manufacturing, Clean and Sustainable Manufacturing Processes, Advanced Metal Forming and Bending, Manufacturing processes, Technology and Automation, Fabrication of Nano materials and Nano Devices. Non-Destructive Testing, Metal joining/Welding and Casting Techniques, Thermal Protection systems & Coatings, Surface Engineering, Surface Design, modification technologies, Surface process control, Wear & Tribology, Computational Methods and Materials. Manufacturing system and simulation, FEA Applications, Process modeling and Simulation, Numerical Analysis and Optimization Techniques, Numerical Methods for Scientific Computations, Optimization Techniques and Methods

### Energy

Renewable Energy, Sustainable Power, Solar, Wind and Bioenergy, Geothermal Energy, Green nanotechnology, Nano Environmental Technologies, Green Energy and Economy, Bioremediation, Waste to Energy, Fuel cells, Smart Grid, Sustainable technologies, Electric vehicles, Battery energy storage, Energy Storage and Conservation, NEXT-GENERATION Technologies in Power sector, Environmental impact of energy conversion, Hydrogen energy conversion systems, Environmental Impact Assessment

The scope is not limited to the above tracks; any relevant and emerging areas can be submitted.

### **Author Guidelines**

- Papers are invited from Students, Research Scholars, Academicians and Industry persons.
- The paper should be in ASME format with maximum 6 pages (if limit exceeds Rs. 500/- per page)
- Papers submitted should not have been previously published in any other conference or journal book chapter etc...
- Authors should satisfy the standard norms of plagiarism.
- Papers submitted will be reviewed by our expert committee members.
- At least one author should register for the conference.
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