

## ICMSE-2022 Conference

Department of Mechanical Engineering under the aegis of NITJ is organizing a 2<sup>nd</sup> International Conference on Materials Science & Engineering (ICMSE) from June 11-12, 2022. The present conference aims at providing a leading forum for sharing original research contributions and practical developments in the field of Materials Science and Engineering so as to contribute its share for technological advancements. Globalization provides all around development and this development is impossible without technological contributions. Hence, the present conference aims at providing a leading forum for sharing original research contributions and practical developments in the field of Materials so as to contribute its share for technological advancements.

### Dr. B. R. Ambedkar National Institute of Technology, Jalandhar

The Institute is named after Bharat Ratan Dr B. R. Ambedkar, founder of Indian Constitution. The institute came into existence in the year 1988 as Regional Engineering College on a beautiful campus of about 154 acres close to the heart of Jalandhar city. The institute obtained the status "Institute of National Importance" by Act of Parliament in 2007. The institute is located on the G.T Road Amritsar bye-pass at a distance of 15 km from Jalandhar Bus Stand, 12 km from Jalandhar City Railway Station, and 18 km from Jalandhar Cantt. railway station. The institute is well connected to the National Capital through rail and road link. The institute is ranked 49 in the NIRF ranking 2021.

### Department of Mechanical Engineering

The Department of Mechanical engineering was founded in 1990 and has grown as one of the dynamic departments of the Institute over the last three decades. The department offers B Tech, M Tech (Design & Thermal) and PhD programmes. The B.Tech program is accredited by the NBA.

### Call for Papers

The organizers invite papers from students, teachers, scientists and researchers in academia and industry to present the results of their research and development efforts in the field of Materials Science & Engineering.

Papers must report original academic or industrial research in any of the following topics not limited to but relevant to the conference.

- *Polymer composites*
- *Ceramic & Metal Matrix Composites*
- *Green Composites*
- *Fibrous & Particulate Composites*
- *Hybrid composites*
- *Self-healing Composites*
- *Micro & Nano Composites*
- *Nano-Mechanics & Nano-Electronics*
- *FEM Modeling of Materials*
- *Density Functional Theory Analysis*
- *Monte-Carlo Technique*
- *Meso-scale Modeling*
- *Molecular Dynamics Modeling of Materials*
- *Manufacturing of Polymer, Ceramic Based Materials*
- *Materials for Green Technology*
- *Tribology and Surface Engineering*
- *Ionic Conductors*
- *Ceramic Processing*
- *Solidification, Processing & Corrosion*
- *Additive Manufacturing*
- *3-D Printing*
- *Mechanical properties of materials*
- *Microelectronics packaging*
- *Mechanical Behavior of Metals*
- *Processing*
- *Grain Boundary Engineering*
- *Phase Transformation*
- *Electron microscopy*
- *Creep*
- *Solid-state processing*
- *Crystallographic Texture*
- *Metallurgy*
- *Microstructure*
- *Welding*
- *Joining of metals*
- *Thermal processing*
- *Applications in medicine*
- *Eco-efficient biomaterials*
- *Surfaces*
- *Interfaces*
- *Biomaterials for tissue engineering*
- *Advanced biomaterials*

- *Mechanical behavior of biomaterials*
- *Bone substitute biomaterials*
- *Bio-inspired materials for bio-medical engineering*
- *Microwave processing of metals*

### Author Guidelines

The presenters should submit an abstract of approximately 300 words with Times New Roman, 12 point, fonts in Windows-based Microsoft Word (.doc /.docx) document through the following easy chair link:

<https://easychair.org/conferences/?conf=icmse2022>

and also by attaching an e-mail to [icmse2022@niti.ac.in](mailto:icmse2022@niti.ac.in) by mentioning the **Track No.** and **Type of Presentation** (i.e., **Oral**) in the mail subject with other relevant details.

The abstract shall be reviewed by a peer committee. Selected manuscripts will be accepted for oral presentation.

After the acceptance of the abstract, the authors are required to submit the full paper through the link provided below. All the templates and detailed guidelines are available at website [\(https://www.niti.ac.in/ICMSE2022/\)](https://www.niti.ac.in/ICMSE2022/).

All the presented papers will be published as scopus indexed conference proceedings in **IOP Conference Series: Materials Science & Engineering.**

### link for full paper submission

[www.morressier.com/call-for-papers/61a611b9e2fb920013b38021](http://www.morressier.com/call-for-papers/61a611b9e2fb920013b38021)

### Registration Fees

At least one author of each accepted paper must register by May 20<sup>th</sup>, 2022 in order for the paper to be included in the proceedings.

### Registration Details

The registration fees for attending the conference:

1	Participants from	₹ 8,000	
2	Students from Abroad	USD 100	
3	Academia from Abroad	USD 150	
		(From NITJ)	(Outside NITJ)
4	Participants	₹ 7,000	₹7,500
5	Student Participants	₹ 6,000	₹6,500
6	Attendee Only	₹1,000	₹ 2,000

## Important Dates

**Abstract Submission Ends** March 15, 2022

**Acceptance of Abstract/  
Paper Submission Starts** March 30, 2022

**Paper Submission Ends** April 30, 2022

**Acceptance of Paper/  
Author Registration Starts** May 1, 2022

**Author Registration Ends** May 20, 2022

## Organizing Committee

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**Chairperson:** Dr. Pramod Kumar, HOD (ME), NIT Jalandhar

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- Prof. Chandra Veer Singh, University of Toronto, Canada

## Address for Communication

Dr. Sumit Sharma /Dr. Nitin Sharma/Dr Saurabh Kango

Department of Mechanical Engineering,

Dr B R Ambedkar National Institute of Technology Jalandhar,  
Punjab -144011

Phone: +91 -2690301/02, Ext: 3121

Mobile: +91-8146871758, +91-9418573982, +91-9882728386

Fax: +91 - 2690320

Email: [sharmas@nitj.ac.in](mailto:sharmas@nitj.ac.in), [kumarm@nitj.ac.in](mailto:kumarm@nitj.ac.in),

[kangos@nitj.ac.in](mailto:kangos@nitj.ac.in), [icmse2022@nitj.ac.in](mailto:icmse2022@nitj.ac.in)

## Payment of Fees:

Account Name: NITJ CCE

Account Number: 50100324249116

IFSC Code: HDFC0000046

For further details, please visit the conference  
website: <https://www.nitj.ac.in/ICMSE2022/>

*We request you to have a regular watch on our  
Conference website for updates.*

**IOP Conference Series:  
Materials Science and  
Engineering**

# ONLINE 2<sup>ND</sup> INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE & ENGINEERING ICMSE-2022

**JUNE 11-12, 2022**



**Organized by:**

**Department of Mechanical  
Engineering**

**Dr B R Ambedkar National  
Institute of Technology**

**JALANDHAR-144011**

**PUNJAB, INDIA**