



NITTE
EDUCATION TRUST

N.M.A.M. INSTITUTE OF TECHNOLOGY

(An Autonomous Institution affiliated to Visvesvaraya Technological University, Belagavi)

Nitte – 574 110, Karnataka, India

(ISO 9001:2015 Certified)

Accredited with 'A' Grade by NAAC

International Conference

on

**Smart and Sustainable Developments in Materials,
Manufacturing and Energy (SME 2019)**

23 – 24 May 2019



Organized By

Dept. of Mechanical Engineering

N.M.A.M.I.T-Nitte – 574 110,

Karkala Taluk, Udipi District, Karnataka State, INDIA

About NMAMIT

Institution and Department

Nitte Mahalinga Adyanthaya Memorial Institute of Technology (NMAMIT), affiliated to VTU, Belagavi is an autonomous Institution offering UG, PG and Doctoral programmes. It is a unit of Nitte Education Trust, Mangalore. It currently offers 7 UG programmes, 11 M.Tech programmes, MBA and MCA programmes. All the UG programmes are accredited by NBA, New Delhi and is a ISO 9001:2015 certified Institution. It has been recognized as a 'Lead Institution' under the World Bank Funded TEQIP programme (both Phase I & II). It is also accredited by NAAC with A grade. The institute is in the band width of 100-150 in the NIRF ranking -2018, Govt.of India.

The Department of Mechanical Engineering at NMAMIT was established in the year 1986 with an intake of 40 BE students. The department has grown in size and the present passing out strength of UG students is ~252 per year. The department has two master's degree programmes namely Machine Design and Energy Systems Engineering with an intake of 18 students each. The department is accredited by the National Board of Accreditation (NBA) under Tier-1. The department is also an established Research Centre of VTU Belagavi and so far six students have completed their PhD, and there are several part-time and full-time doctoral students. The department has six centres of excellence. The research work carried out in micro-machining has won three awards in the prestigious IMTEX exhibition in the last 4 years. Some of the products have been patented and some products have moved from Lab to Land. The students are provided with all-round development opportunities through professional societies, branch association, and several professional club activities.

Preamble

SME-2019 is an International Conference on Smart and Sustainable developments in Materials, Manufacturing and Energy, which is focused on research and emphasizes the latest technological innovations. It showcases the commitment of NMAMIT in bringing together various disciplines, converge and amalgamate various new ideas, fields and technologies. The focus of the conference is to open a new paradigm to deliberate on eco-friendly and robust design, use of materials with less environmental impact, use of fewer materials, optimal utilization of resources during manufacturing processes. Also, produce no or less pollution & waste and reuse, recycle of materials. The emphasis is on zero defects or do it right at first design, Materials in Biomedical applications, Operation and management of systems with sustainable initiatives. Selected papers of this conference will be published in Scopus Indexed Journals.

The Department of Mechanical Engineering NMAM Institute of Technology, Nitte, Udupi Karnataka is organizing the International Conference on Smart and Sustainable Developments in Materials, Manufacturing and Energy (SME-19) on 23 to 24 May 2019. This Conference will provide a platform, where the academicians, practitioners and professionals from industry all across the world will exchange their ideas and experiences in related fields. Key note lectures by eminent speakers are arranged in the conference, which will help the delegates to explore novel areas of research. The conference covers the research areas under different themes related to the conference. The papers received in the conference will be preliminary reviewed by technical review committee consisting of eminent experts and the authors of the accepted papers will be invited for presentation of their papers.

Conference Themes

- ◆ **Smart and Sustainable Developments in Materials**
- ◆ **Smart and Sustainable Developments in Manufacturing**
- ◆ **Smart and Sustainable Developments in Energy**

Sub Themes to be addressed in this conference include, but not limited to the following

Smart and Sustainable developments in Materials

- Composite Materials
- Ceramic Materials
- Materials for Automotive, Energy and Environment
- Smart and Device Materials
- Nano-Materials
- High temperature & Cryogenic Materials
- Dynamic Behaviour of Materials and Structures
- Characterization & Testing
- Porous Materials and Their Applications
- Bio-Materials
- Transport Properties of Materials
- Materials for Solid State Ion Batteries
- Luminescence Materials and Its Applications
- Functional Materials
- Smart Construction Materials

Smart and Sustainable developments in Energy

- Hybrid vehicles & Integration
- Energy Storage Batteries and other Storage Devices
- Thermal Energy
- Future Energy Technologies
- Global warming & Green Energy Options
- Health and Environment
- Design for Sustainability
- Sustainable Product development
- Green Buildings
- Nanotechnology for sustainability
- Heat & Mass Transfer
- Alternative fuels
- Biogas and Biomass
- Refrigeration & Air-conditioning
- Thermo Electric Materials

Smart and Sustainable developments in Manufacturing

- Tribology
- Flexible/ Lean Manufacturing
- Subtractive Manufacturing
- Industrial Engineering
- CAD/CAM/CAE/CIM
- Metal Forming Processes
- Foundry and Welding Technology
- Metal Cutting Processes
- High-Speed/Precision Machining & Inspection
- Control and Automation
- Micro Machining Technology
- Non-Conventional Machining Processes
- Surface Engineering
- Modeling, Analysis & Simulation of Manufacturing Processes
- Sustainable Manufacturing Technologies
- Production, Operations and Supply Chain Management
- Mechatronics
- Industrial Robotics and Automation
- Machine Vision
- Measurement Control Technologies and Intelligent Systems
- MEMS and Nano-Technology
- Simulation and Optimization Techniques
- Electronic Manufacturing
- Computational Mechanics & Techniques
- System Dynamics and Vibration
- Nonlinear Dynamics

Participants

Faculty researchers and students (UG/ PG and PhD) from engineering colleges, R & D laboratories and professionals from industry

Accommodation

Accommodation will be provided on twin sharing basis in the institute hostels on request depending on the availability and on first come first serve basis.

Exhibition Cum Sponsorship

Industries are encouraged and invited to exhibit their products at our campus during the conference sessions to showcase their products and services. Agencies are also invited for being co-sponsors for SME 2019.

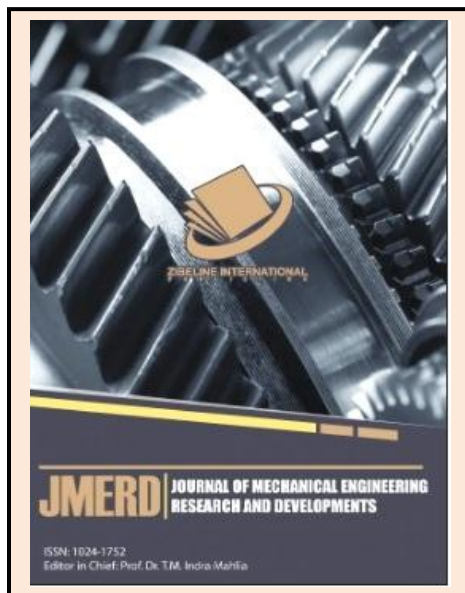
Call for papers

Original Papers (not submitted elsewhere) are invited in any of the above mentioned (not limited) streams in the given format restricted to 8 pages, strictly adhering to plagiarism policies of the journal. All the accepted and presented papers will be published in **Scopus indexed journals**. The papers will go through a stringent review process by the respective journals. Hence, the organizers of the conference shall not be responsible for any rejection due to lack of quality as per the standard of journals.

Manuscripts in electronic format (DOC, DOCX only) to be submitted via <https://easychair.org/cfp/SME2019>

Publication Details

Author (s) can select any one of the following journals and strictly follow the journal guidelines for the article preparation. For more details please visit conference website. The accepted and registered papers will be published either in JMERA or in Int. J. Mater. Res. As per the theme.



Journal of Mechanical Engineering Research and Development (JMERA)

Open Access. Scopus Indexed.

(Publication charges 200 USD / paper)



International Journal of Materials Research

Scopus Indexed.
Impact Factor: 0.748.

(Publication charges: Nil)

Note: Area of submission restricted to Material Science

Important dates

Submission of Full manuscript	16/02/2019
Notification of acceptance	31/03/2019
Final submission of camera ready Manuscript	10/04/2019
Last date for registration	01/05/2019

Registration Details

For registration, please visit <http://www.sme2019.in/> It is essential that at least one of the authors of the accepted papers must register to participate in the conference for inclusion of the papers in the **Scopus publication**. Registration can be done by mailing the completed registration form along with the fee after receiving the acceptance of the paper.

Registration Fees

Category	Registration Fees	Journal	Publication Charges	Total Fees to be paid
Faculty/Researchers (UG/PG/PhD)/Industry	Rs.2500/-	JMIRD	200USD*	Rs.16500/-
Late Registration Fees	Rs.3500/-			Rs.17500/-
International Delegates	100 USD			300USD
Faculty/Researchers (UG/PG/PhD)/Industry	Rs.2500/-	IJMR	Free	Rs.2500/-
Late Registration Fees	Rs.3500			Rs.3500/-
International Delegates	100 USD			100 USD

Note : *Rs.70 = 1USD at current Prize.

Rs. 2,500/- will be charged for Non-Authors/Accompanying person.

Mode of Payment

Registration Fee can be paid as

(1) Wire transfer through NEFT as per the following details:

Account Holder	PRINCIPAL, N.M.A.M.Institute of Technology, Nitte
Account No	01152200033493
IFSC Code	SYNB0000115
Bank Name	Syndicate Bank
Branch	Nitte
MICR Code	576025533

NOTE: Please mention SME 2019 in subject

Also please send **your name, paper ID & UTR Ref. Number**.

(2) Demand Draft drawn in favor of "**The PRINCIPAL NMAM Institute of Technology, Nitte**" payable at Mangaluru.

NOTE: Mention the Paper ID and SME 2019 on the backside of demand Draft.

Committees

Patron:

Shri N. V.Hegde

President,NET, Mangalore &
Chancellor,Nitte (Deemed to be University)

Steering Committee

Sri. Vishal Hegde, Pro-Chancellor, Nitte-Deemed to be University

Dr. N.R Shetty, Chancellor, Central University of Karnataka,Gulbarga, Karnataka

Dr. B.S. Sonde, Director, ASM Technologies Ltd, Bangalore

Dr. G. Hemantha Kumar, Vice Chancellor, Mysore University, Mysore

Dr. Omid Ansary, Senior Associate Dean and Professor, Penn State University, U.S.A

Dr. Samson Ojoawo, Professor, Ladoke Akintola University of Technology, Nigeria

Dr. Shripad T. Revankar, Professor, Purdue University, U.S.A

Dr. Shuhaimi Mansor, Professor, Universiti Teknologi,Malaysia

General Chair:

Dr.Niranjan N. Chiplunkar

Principal

Co-Chairs

Dr.I.R.Mithanthaya, Vice Principal & Dean (Academics)

Dr.Shrinivas Rao B.R., Vice Principal & COE

Chief Convener:

Dr.Sudesh Bekal, Dean (R & D)

Dr. Muralidhara, P.G. Coordinator

Organizing Secretary:

Dr. Gururaj Upadhyaya, Associate Prof.Dept. of Mechanical Engg. NMAMIT-Nitte.

Program Chair

Dr. Shashikantha Karinka, HOD Mechanical Engg. NMAMIT-Nitte.

Coordinators

Dr. Kumar H.S, Assistant Professor,Dept.of Mechannical Engg. NMAMIT-Nitte.

Dr. Ajit Hebbale, Assistant Professor,Dept.of Mechannical Engg. NMAMIT-Nitte.

Contact Details

Program Chair

Dr. Shashikantha Karinka,

Professor & Head - Dept. of Mechanical Engineering

N.M.A.M. I.T, Nitte-574110

Email: shashikanth@nitte.edu.in

Cell: +91-8970915301/9890160844

Coordinators

Dr. Kumar H.S,

Assistant Professor

Dept. of Mechanical Engineering

N.M.A.M. I.T, Nitte-574110

Email: urkumar2006@nitte.edu.in

Cell: +91-9538500190

Dr. Ajit Hebbale,

Assistant Professor

Dept. of Mechanical Engineering

N.M.A.M. I.T, Nitte-574110

Email: ajith.hebbale@nitte.edu.in

Cell: +91-9964843284

Note: If you have any query, please write an email to, **sme2019@nitte.edu.in**