



**DEPARTMENT OF MECHANICAL ENGINEERING**  
**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL**  
Mangalore, Dakshina Kannada-575025, Karnataka State, INDIA

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**Announcement & Call for Papers**  
**Second International Conference on Design, Materials & Manufacture 2019**  
**December 6-8, 2019**

### Conference Outline

This conference brings academicians, industrial experts, researchers, and scholars together from areas of Mechanical Design Engineering and is organized on the occasion of Diamond Jubilee Celebrations of the institute. The topics of interest includes Design, Materials and Manufacturing engineering and other related areas such as Mechatronics, Prosthetic design and Bio-inspired design and Smart materials. The conference series look forward in welcoming you to an inspiring research program at NITK Surathkal, India with the intent of emphasizing the applications of Mechanical Engineering research in the development of the global growth.

### First ICDEM 2018

First International Conference on Design, Materials and Manufacture 2018 was held during 29-31, Jan 2018 at National Institute of Technology Karnataka Surathkal, Mangalore. We received overwhelming response from the authors to this conference and 129 papers were invited for oral presentation and all these papers were presented in 16 parallel sessions and published in Conference proceedings of American Institute of Physics, which is indexed in Scopus-Elsevier and others. The Organizing committee of this conference acknowledge the support from National Institute of Technology Surathkal, SERB-DST, CSIR and other financial supporters to this Programme.

### National Institute of Technology Karnataka

National Institute of Technology Karnataka, Surathkal is one of the premier "Institutes of National Importance" in the country funded by the Ministry of Human Resource Development (MHRD), Govt. of India. The institute has an impressive infrastructure with state of art facilities in all the departments for teaching, research and consultancy. The institute is located 18 kilometers north of Mangalore city. NITK nestles between the verdant mountain ranges of Western Ghats on one side and vast tranquil blue water of the Arabian Sea on the other. NITK is a focal point of visits to important places of many pilgrimage and Archeological sites. The famous Gokarna, Goa and Calicut beaches are just few hours of drive from the campus.

### Department of Mechanical Engineering

Department of Mechanical Engineering established in 1960 and is the oldest and largest department in the institute. The department has traversed the path of knowledge dissemination and generation as well as delivering over 5000 Mechanical Engineering graduates to the Nation. Over these 60 glorious years, it has carved a niche for itself in the key areas of teaching, research, consultancy, administration and community services. The Department of Mechanical Engineering prioritize the necessary revamping of Mechanical Engineering education, which is driven primarily by dynamics of technological advances and sustainable development and with active involvement of industry, alumni, research organizations and other stakeholders. Academic Programmes leading to B. Tech. degree in Mechanical Engineering, M. Tech. in Manufacturing, Design and Precision, Mechatronics and Thermal Engineering and full time/part time Ph.D. degree are currently offered by the department.

## Tracks:

**Design Engineering:** Kinematics and Dynamics of Machines, Engineering Analysis: Theoretical, Experimental & Numerical, Fatigue, Fracture and Life Cycle Analysis Vibration, Acoustics and Condition Monitoring, Thermal systems & Analysis, Product Design & Development,

**Materials Engineering:** Smart Materials & Applications, Characterization of Alloys and Composites, Polymer Synthesis & Processing Techniques, Application Oriented Hybrid & Sandwich Composites, Nano & Bio composites,

**Manufacturing & Mechatronics:** Precision & Mechatronics Engineering, Rapid Manufacturing & Technology, Machine Tools & Maintenance Manufacturing, Innovations CAD/CAM/CAE & Robotics, Flexible & Web Based Manufacturing.

## Important dates:

Submission of Full Papers: till 15 October 2019

Registration: 1 November 2019

Conference: 6-8 December 2019

Venue: NITK Surathkal, Mangalore, India



## Instruction to Authors:

Research papers, review articles or case studies up to 10 pages can be submitted to the conference only through email: [papers.icdem2019@gmail.com](mailto:papers.icdem2019@gmail.com).

All papers be submitted with the guidelines of AIP, and the same can be downloaded from the brochure at <https://aip.scitation.org/apc/authors/preppapers>

All papers will be reviewed by two experts in the area of specialization. Recommended and presented papers will be published in Proceedings American Institute of Physics AIP indexed in Scopus (Elsevier)

## Registration fee:

Academic and research participants INR 7500

Industry participants INR 10,000

Participants outside India USD250

Nonrefundable Registration fee Inclusive of taxes, may be paid through NEFT transfer to the bank account:

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## Travel

The institute is located 22 km north of Mangalore city along the Kanyakumari-Mumbai National Highway 66. It is well connected by road, rail and air to major cities in India and a few international destinations. Surathkal on the Konkan railway is the nearest railway station and is a stopover for most of the trains passing through Konkan railway. Mangalore Junction (Kankanady) and Mangalore Central railway stations are about 15 km away from campus and well connected by express bus services at every five-minute frequency. The Mangalore (Bajpe) airport is just 18 km away from the campus.

## Sponsorship

As the conference will be attended by Engineering Professionals, Scientists, Administrators, Executives, Manufacturers and Managers from various Institutions, Organizations and Agencies, sponsorship for some of the events in the conference would be sought. The sponsors will be provided with space to exhibit their products at the conference venue besides coverage in the conference Souvenir and Banners around the campus based on Platinum, Gold and Silver category. Interested parties may go through the conference website for further details and contact the conference secretariat.

## Accommodation

Limited accommodation may be arranged for delegates in the Institute Guest house/hostels on specific request on a first come first serve basis for which participants have to pay accommodation charges. The delegates need to book the accommodation in the hotels near by Surathkal and Mangalore on their own.

## Contact for Details

### Prof. G. C. Mohan Kumar

Organizing Secretary- ICDEM 2019

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