

**National Conference  
On  
Advances in Mechanical  
Engineering**  
(Virtual Event under Diamond Jubilee  
Celebration 1961-2021)



27<sup>th</sup>– 28<sup>th</sup> May, 2021

**CALL FOR PAPERS**



**ORGANIZED BY**

**Department of Mechanical Engineering  
Sardar Vallabhbhai National Institute of  
Technology, Surat -395007  
Gujarat, INDIA**

**ABOUT THE INSTITUTE**



Sardar Vallabhbhai National Institute of Technology (SVNIT) Surat is one of the National Institutes of Technology in India. The objective is to provide high-quality technical education to meet the Nation's needs in the present competitive world. SVNIT is situated on Athwa-Dumas Road, Surat. The campus is opposite the Ichchhanath Temple, Piplod. The campus is spread over 256 acres of lush green forest, midway between the Surat Domestic Airport and Surat Railway station, and is well connected by city buses and local trains. The campus is around 10 km from the Surat Railway station and an 8 km distance from the Airport.

**ABOUT THE DEPARTMENT**

The Institute is established in 1961 with three disciplines of Civil, Electrical and Mechanical Engineering. The department offers an Undergraduate course in Mechanical Engineering with the intake of 225 students and five Post Graduate programs i.e., Turbo-machines, CAD-CAM, Mechanical Engineering, Thermal System Design and Manufacturing Engineering. The department also offers Ph.D. programs to promote necessary research activities in the abovementioned areas. The consulting services in diverse fields of Mechanical Engineering are carried out for R & D sectors, Industries, and Institutes. Department is well equipped with different 18 laboratories and advanced computing facilities. At present, 113 research scholars are registered and pursuing Ph.D.

**INTRODUCTION**

A virtual National Conference on **Advances in Mechanical Engineering** will be held from 27<sup>th</sup>-28<sup>th</sup> May 2021, at Sardar Vallabhbhai National Institute of Technology, Surat under Diamond Jubilee Celebration (1961-2021). The conference aims to bring together experts from academic, R&D and industrial communities to address new challenges, present their latest research findings, ideas, developments and perspective of the future directions in the field of Mechanical Engineering. NCAME 2021 invites all the researchers to participate in the conference.

**OBJECTIVES**

This conference's objective is to provide a platform for the faculty members, research scholars, young scientists, and postgraduates students of various organizations to interact and exchange their ideas in the field of Mechanical Engineering from national academic institutes, research laboratories, and relevant industries. This conference involves invited keynote talks by distinguished experts from IIT's, IISc, NIT's, and reputed industries in Mechanical Engineering.

**PUBLICATION**

- ☐ All papers will be published in conference proceedings with ISBN.
- ☐ Selected papers with extended versions will get a chance to be published in the **International Conferences** being organized by Mechanical Engineering Department, SVNIT.

## THEMES (Not Restricted to)

### Design Engineering:

Computing in Applied Mechanics and Product Design, Dynamics and Control of Structures / Systems, Fracture and Failure Mechanics, Solid Mechanics, Differential/Dynamical systems, Modeling and Simulation Artificial Intelligence: Fuzzy Logic, Neural Network, Genetic Algorithm, Finite Element Analysis, Advanced Numerical Techniques, Advancements in Tribology, Nano-Mechanics and MEMS, Robotics.

### Manufacturing/Production Engineering:

Casting, Welding, Brazing, Soldering, JIT, MRP, Supply Chain Management and Logistics, Intelligent Manufacturing System, Rapid Prototyping and Reverse Engineering, Time and Motion Study Quality Control and Reliability, Productivity Improvement, Conventional and Non-Conventional Machining, Ergonomics: Human Factors in Seating Comfort, Coating and Surface Engineering, Advanced Materials, Composites, Ceramics, and Polymers Processing.

### Thermal Engineering:

Multi-Phase Flow and Heat Transfer, Heat and Mass transfer in the ecosystem, Heat and Mass transfer in Biomedical devices, Biofuels and, Internal Combustion Engines, Micro/Nano Heat Transfer, Biological Heat Transfer, Double, Diffusive Convection, Melting and Solidification, Numerical Methods in Fluid Flow and Heat Transfer, Internal Flow and Heat Transfer, Transport Phenomena in Porous Media, Enhanced Oil Recovery, Waste Management and Waste Disposal, Heat Transfer with Non-Newtonian Fluid Flow, Energy Management and Energy Systems, Air Conditioning and Refrigeration, Nanofluids transport, Renewable Energy, Micro/nanofluidic and life science application.

## ORGANIZING COMMITTEE

### CHIEF PATRON

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Director, SVNIT, Surat

**Prof. P. L. Patel**  
Deputy Director, SVNIT, Surat

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**Prof. Shailendra Kumar**  
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Assistant Professor,  
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Email: [ncame2021.svnit@gmail.com](mailto:ncame2021.svnit@gmail.com)

## ACCOMMODATION

All the outstation participants will be provided accommodation on a payment basis in the Guest House/Hostels of the institute as per the availability. No TA and DA will be paid to the participants.

### IMPORTANT DATES

Call for paper:	<b>02. 03. 2021</b>
Last date for Full-Length: Paper Submission	<b>31. 03. 2021</b>
Decision on Full-length paper:	<b>12. 04. 2021</b>
Submission of Camera-Ready Paper	<b>30. 04. 2021</b>
Registration Deadline:	<b>20. 05. 2021</b>

### REGISTRATION FEE & DETAILS

Participants and authors are requested to register on or before 30.04.2021. It is mandatory to register at least one author after accepting the paper and present it in the NCAME-2021.

**Rs. 300/- for Student / Research Scholar**

**Rs. 500/- for Faculty**

**Rs. 1000/- for Industry Personnel**

**Rs. 300/- for Listener**

The non-refundable registration fees should be paid only by ONLINE MODE in the account of:

Name of Beneficiary: Director SVNIT CCE

A/C No.: 37030749143

Nature of Bank Account: Current Account

MICR No:395002012

IFSC: SBIN0003320

Bank: State Bank of India, SVNIT, Surat

**Abstract Submission Link:**

<https://forms.gle/H1RwNSuz6UfzkPbN6>

**Registration Link:**

<https://forms.gle/YSUQFzn2N1Jc8tT68>