

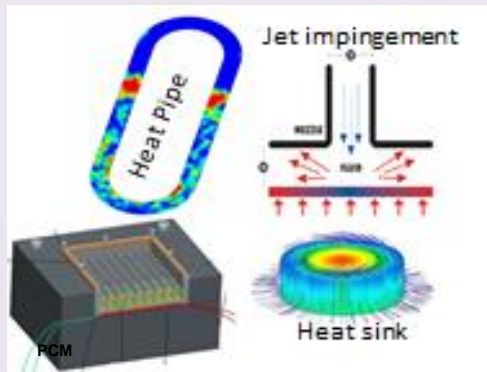


**DST-SERB SPONSORED**

**ONE WEEK STTP (ONLINE MODE)**

on

**THERMAL MANAGEMENT  
TECHNIQUES  
(18<sup>th</sup> to 22<sup>nd</sup> Nov 2024)**



*Organized By*



**Department of Mechanical Engineering  
S. V. National Institute of Technology  
SURAT - 395 007 (Gujarat) India  
Website: [www.svnit.ac.in](http://www.svnit.ac.in)**

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### ABOUT SVNIT

The institute was initially established as Sardar Vallabhbhai Regional College of Engineering & Technology in 1961 and was upgraded as a National Institute of Technology on 4<sup>th</sup> October, 2002. SVNIT is one of the pioneering engineering institutions of the country which has contributed many outstanding engineers in India & abroad. It is conducting six UG programs, seventeen PG programs, three integrated M.Sc. programs and Ph.D. program in all disciplines of engineering and applied sciences. Special attention is given to interdisciplinary research. The institute has an excellent placement record with a number of top ranking companies visiting the campus every year.

### ABOUT DEPARTMENT

The department of Mechanical Engineering offers Under Graduate course in Mechanical Engineering and Post Graduate programs in, Turbomachines, CAD-CAM, Mechanical Engineering, Thermal System Design, Manufacturing engineering.

The department also offers Ph.D. programs to promote basic research activities in the above mentioned areas. The consulting services in diverse fields of Engineering are carried out for local government, semi-government, non- government organizations, private firms etc. also.

## ABOUT THE PROGRAM

A thermal management system involves controlling temperature and dissipation of heat through technology. This technology is based on thermodynamics and heat transfer. This course aims to discuss the recent advancement in the research and development of thermal management technology. From this STTP, participants will know the fundamental and the importance of thermal management in various engineering and scientific applications. Also, participants will learn the numerical/experimental skills to solve problems related to thermal management.

## TOPICS TO BE COVERED

- ✓ Thermal management of electronic systems.
- ✓ Thermal Management through Phase Change Materials (PCMs)
- ✓ Battery Thermal Management.
- ✓ High Heat Flux Dissipation Using Microchannel Heat Sinks.
- ✓ Thermal Management Through Micro and Nano Texturing.
- ✓ Thermal Management in Future Mode of Transport.
- ✓ Static and Dynamic Flow Boiling Instabilities in Two Phase Microchannel Heat Sinks.
- ✓ Evaporation Kinetics of Ferrofluid Droplets
- ✓ Heat pipes
- ✓ Datacenter Cooling

## ELIGIBILITY

Faculty members, Research scholars, Industry personnel and practicing engineers are eligible for this STTP. Participants must have Bachelor's degree in any discipline of Engineering.

## REGISTRATION FEE

Registration for the program is Rs. 300 for research students, Rs. 1180 for faculty from academic institution and Rs. 3540 for industry personnel and practicing engineers. Participants have to send bonafide certificate/photocopy of their valid identity card and payment details to [jay.patel7693@gmail.com](mailto:jay.patel7693@gmail.com). The registration fee should be paid online mode in account of "Director, SVNIT-CCE" A/C No: 37030749143 State bank of India, SVRCET branch, SVNIT campus, Surat. IFSC: SBIN0003320

## IMPORTANT DATES

The program will be organized through Google meet. The last date for registration is 13<sup>th</sup> November, 2024. Number of participants is limited. Selection will be as per the eligibility, and on First-Come-First-Served basis. Short listed candidates will be informed through email. However, the certificate of participation will be issued only to those candidates securing more than 80 %

## SPEAKERS



Experienced researchers from IITs, Foreign Universities, NITs, and Industry will be invited to deliver the lectures.

## REGISTRATION LINK

Registration can be done using the following link or by scanning the given QR code.



<https://forms.gle/r6KvRwA46byQooau5>

## ABOUT DST-SERB SPONSORED PROJECT

**Title:** Proposal for a novel hybrid PCM-based heat sink coupled with heat pipe for efficient thermal management of electronic systems (CRG/2022/000462).

This program is going to be conducted under the project head of Scientific Social Responsibility.