

TEQIP-3

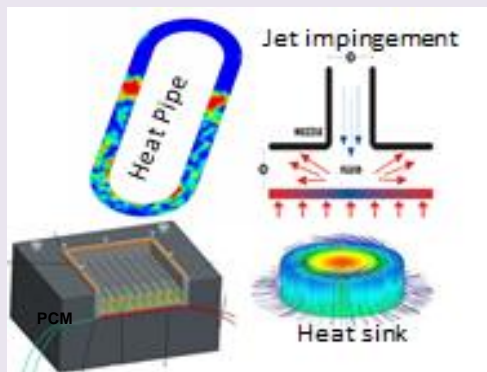
Technical Education Quality Improvement Programme

TEQIP (III) SPONSORED

ONE WEEK STTP

on

**THERMAL MANAGEMENT: AN
OVERVIEW, CHALLENGES AND
SOLUTIONS
(2nd to 7th Nov 2020)**



Organized By



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

ORGANIZING COMMITTEE

PATRON

PROF. S. R. GANDHI
DIRECTOR, SVNIT SURAT

CHAIRMAN

PROF. SHAILENDRA KUMAR
HEAD, MECHANICAL ENGINEERING
DEPARTMENT, SVNIT SURAT

COORDINATORS

DR. NARESH YARRAMSETTY
ASSISTANT PROFESSOR,
MED, SVNIT, SURAT

DR. NIKHIL A BARAIYA
ASSISTANT PROFESSOR,
MED, SVNIT, SURAT

DR. MANISH K RATHOD
ASSISTANT PROFESSOR,
MED, SVNIT, SURAT

CONTACT DETAILS

DR. NIKHIL A BARAIYA
ASSISTANT PROFESSOR, MED, SVNIT
EMAIL: nikhil@med.svnit.ac.in
PHONE: 8160503550

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 4th 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 through Phase Change Materials (PCMs)
- ✓ Electronic Package.
- ✓ Battery Thermal Management.
- ✓ High Heat Flux Dissipation Using Microrchannel 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 fee for the program is Rs. 300 for research students, Rs. 600 for faculty from academic institution and Rs. 5000 for industry personnel and practicing engineers. Participants have to send bonafide certificate/photocopy of their valid identity card and payment details to nikhil@med.svnit.ac.in. The registration fee should be paid online mode in account of "Director SVNIT TEQIP IRG" A/C No: 0277101028663 Canara Bank, Nanpura Branch Surat, IFSC: CNRB0000277.

IMPORTANT DATES

The program will be organized through Google meet. The last date for registration is 25th October, 2020. 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 % attendance.

PROPOSED SPEAKERS



- ❖ Dr. C. Balaji (IIT Madras)
- ❖ Dr. Dibakar Rakshit (IIT Delhi)
- ❖ Dr. Ankur Miglani (IIT Indore)
- ❖ Dr. Balakrishna Mehta (IIT Bhilai)
- ❖ Dr. Chander Shekhar Shrama (IIT Ropar)
- ❖ Dr. Rahul Yadav (IIT Kanpur)
- ❖ Dr. Satya Sekhar (IIT Jammu)
- ❖ Dr. Srikanth R (Binghamton State University, USA)
- ❖ Dr. Manish Rathod (SVNIT Surat)
- ❖ Dr. Naresh Y (SVNIT Surat)
- ❖ Dr. Nikhil Baraiya (SVNIT Surat)
- ❖ Dr. M. Pullarao (IIITDM Kurnool)
- ❖ Dr. Satyanand Abraham (NIT Warangal)
- ❖ Dr. Sampath Kumar (NIT Warangal)
- ❖ Mr. Vivek Sharma (ISRO, Ahmedabad)
- ❖ Mr. Ankit Kukadia (Reliance Industries Ltd, Mumbai)
- ❖ Dr. Javed Shaikh (Thermal Architect, Intel Corporation)

REGISTRATION LINK

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

URL: <https://t.ly/oKX4>

