

## One-week Faculty Development Program

On

### “Fundamentals of Energy Management and Applications (FEMA 2019)”

ATAL Academies sponsored

November 25-29, 2019

Coordinators

Dr. Bade Mukund H.

Dr. Doshi Ashish V.

Dr. Kalyankar Vivek D.

Sponsored



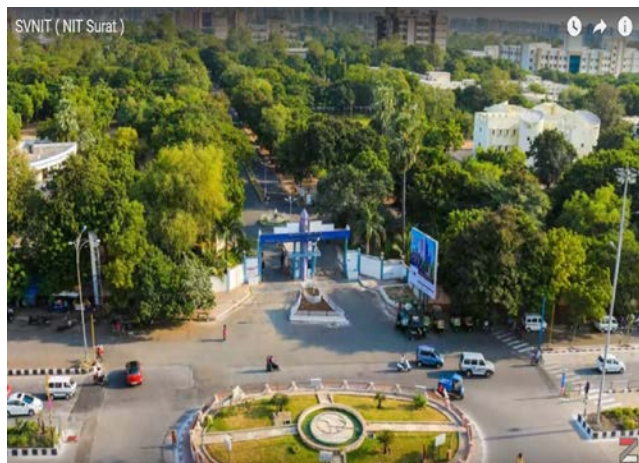
AICTE Training and Learning (ATAL)  
Academies New Delhi

Organized



Department of Mechanical Engineering  
SV National Institute of  
Technology, Surat-395007

## ABOUT THE INSTITUTE:



The institute was initially established as Sardar Vallabhbhai Regional College of Engineering & Technology in 1961 and it is elevated to Sardar Vallabhbhai National Institute of Technology with the status of ‘Deemed University’ on 4th October 2002. The Sardar Vallabhbhai National Institute of Technology (SVNIT) is one of the pioneering engineering institutions of the country, which has contributed many outstanding engineers in India and abroad. It is conducting six UG programs, seventeen PG programs, three integrated five years M. Sc. Programs, and Ph.D. program in all disciplines of engineering and applied sciences. Special attention is given to interdisciplinary research all across departments. The institute has an excellent placement record and growing by high pace in research as well.

### Mechanical Engineering Department

The Department of Mechanical Engineering is one of the oldest departments from the start of institute (1961). The department has qualified and dedicated faculty members with the specialization in various areas. The department

is undertaking a UG programs in Mechanical Engineering, five PG programs (Thermal System Design, Mechanical Engg., Turbo Machines, CAD/CAM, and Manufacturing Engg.) and a research program leading to PhD degree in related specialization. For industry people, master program by research and part time PhD program are also available. The research facilities in mechanical department are developing with addition of new equipment and laboratories, and modernization of old laboratories.

### About the faculty development program:

The energy is inevitable for life and life without energy cannot be imagined. However, today’s energy sources are mainly based on fossil fuels and almost 63 % of India’s energy is based on it. Fossil fuels are having important issues such as limited resources, environmental pollution due to emission of greenhouse gases, etc. To deal with this one of the solution is efficient use of energy. The main objective of this program is to understand fundamentals of energy management and its’ applications for various industries.

Energy management is useful for any industry in controlling its operating cost as fuel prices are always fluctuating with overall increasing trend. Further reduction in fuel will help to decrease local, regional, and global pollution due to emission of flue gases. This may assist to mitigate the problem of climate change due to global warming. This course will help industry professionals acquire the skills and techniques required to implement energy management, and benefit researchers and students who are interested in working on energy management. Moreover, industrial case studies will definitely helpful to address the issues of energy conservation and managements in process industries, buildings, etc.

## GENERAL LAYOUT OF PROGRAM

- ❖ Overall Energy Scenario for India and world
- ❖ Fundamentals of Energy Management: What, Why, How management energy
- ❖ Energy Management of Various System:
  - ⊛ Steam generators and steam systems
  - ⊛ Textile process houses
  - ⊛ Fluid Systems: Pumps, compressors, fans, blowers
  - ⊛ Electrical systems
  - ⊛ Green buildings
- ❖ Pinch Analysis for Energy Management
- ❖ Renewable Sources and Energy Management
- ❖ Interactive sessions with industry experts from energy management firm during/after the sessions
- ❖ Discussion on scope for research from industry and academic outlook  
Site/laboratory visit

## ABOUT PROGRAM FEES

There is no registration fee from any participants. No TA/DA will be paid to any participants. Participants will have to make their own stay arrangement during five-days. Only tea during sessions/working lunch will be provided by organizers to the participants during the course.

## ACCOMMODATION FACILITY AT SVNIT:

Limited accommodation can be made available to the participants, who need it, in institute hostel/guest house on self-payment basis, subjected to availability. Participant can make payment of accommodation directly to the respective authority. Please refer:

<http://svnit.ac.in/web/campus.php?tag=guesthouse>

## Experts

Experts from host institute and from reputed institutes will conduct program sessions. For proper blend of academia and industry, few experts may be from esteemed industries.

## ELIGIBILITY OF PARTICIPANTS

Faculty members of AICTE approved technical institutions, research scholars and PG scholars are eligible to attend the program.

## ABOUT SURAT CITY

Surat is a top ranking industrial city of the country well known worldwide for textiles, Zari and Diamond industries. Several large-scale industries and establishments are located in the city. The institute is located at Ichchhanath on Athwagate-Dumas road at a distance of about 10 km from Surat railway station with auto charges @ Rs. 100-120. During end of November weather is pleasant with mild cold being costal city. Surat is situated on the main western railway route midway between Ahmadabad and Mumbai

## REGISTRATION PROCEDURE

- ❖ Participants interested to attend this program need to make compulsory [online registration](https://forms.gle/VkyTqw5v2ELmZANA6) on the below mentioned link:  
<https://forms.gle/VkyTqw5v2ELmZANA6>
- ❖ Participants also need to separately submit their registration form (available in the brochure), duly signed by competent authorities.
- ❖ Hard copy of the duly filled registration form should reach the coordinators up to 15<sup>th</sup> November, 2019. However, scanned copy of registration form must be sent through email for early registration.
- ❖ Number of participants are limited to 50. Short listed candidates will be informed through their email.
- ❖ On completion of entire program, coordinators will issue the certificate of participation to those participants who have attended the program without any absenteeism.
- ❖ The coordinators at the end of the program shall conduct a test. AICTE Training and Learning (ATAL) Academy will issue the certificate of completion to those participants who scored minimum 60 % marks in the test. Test will be objective multiple choice based on the content covered in the said program.

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sponsored  
Faculty Development Program**



**on  
Fundamentals of Energy Management and  
Applications (FEMA 2019)  
25 - 29 November, 2019  
Registration form**

**Name (Capital letters):** \_\_\_\_\_

**Designation:** \_\_\_\_\_

**Department:** \_\_\_\_\_

**Institute name with address:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**Whether institute is AICTE approved (Yes/No):** \_\_\_\_\_

**Experience (In years): Teaching:** \_\_\_\_\_ **Industry:** \_\_\_\_\_

**Highest qualification:** \_\_\_\_\_ **Area of research/Teaching:** \_\_\_\_\_

**E-Mail ID:** \_\_\_\_\_ **Gender:** \_\_\_\_\_

**Accommodation Required (Yes/No):** \_\_\_\_\_ *(Refer brochure)* **Mobile number:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**(Signature of applicant)**

**(Signature of forwarding authority with seal)**

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To,

**Dr. Bade Mukund Haribhau/Dr. Doshi Ashish V. /Dr. Kalyankar Vivek D.**

Coordinators (FEMA 2019)

Mechanical Engineering Department,

S. V. National Institute of Technology, Surat – 395007, Gujarat, India.

Email: [medfema@gmail.com](mailto:medfema@gmail.com)

Phone: +91-8155051733 (BMH)

+91-9981584605(Sanjay) (WhatsApp)