

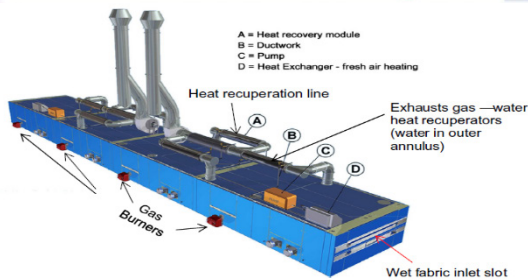
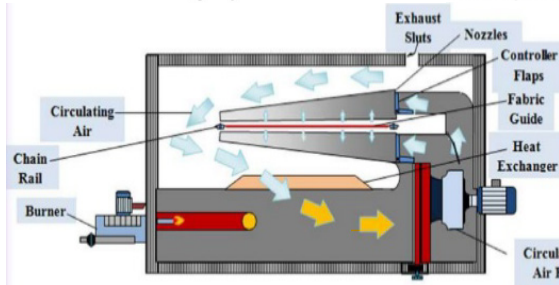


**AICTE Training and Learning (ATAL) Academies
sponsored
Faculty Development Program**



on
Green and Sustainability in Textile industry
21 – 25 September, 2020

Hot Air Circulating System of Stenter & Dryer.



Coordinators

**Dr. M. H. Bade, Dr. A V Doshi and Dr. V. D. Kalyankar, SVNIT
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Organized by



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



**Manmade Textile Research
Association,
Surat, Gujarat-395002**

About Sardar Vallabhbhai National Institute of Technology:

The Institute was initially established as Sardar Vallabhbhai Regional College of Engineering & Technology in 1961 and was upgraded as a National Institute of Technology with the status of “Deemed to be an Institute” in 2002 and became Sardar Vallabhbhai National Institute of Technology (SVNIT). SVNIT at present is one of the prestigious Engineering institutions of the country and has contributed many outstanding engineers in India and abroad. It is running six undergraduate and seventeen postgraduate programs and Ph.D. program in all disciplines of Engineering and applied sciences. Special attention is given to interdisciplinary research. SVNIT has an excellent placement record with a number of top ranked companies visiting the campus every year.

About the Mechanical Engineering Department:

The Department of Mechanical Engineering came into existence in the year 1961. The department has a team of 37 qualified and dedicated faculty members having specialization in various areas. At present the department is conducting a UG program (Mechanical Engineering), five PG programs (Mechanical Engineering, Turbo-machines, Manufacturing, CAD/CAM, and Thermal System Design) and a research program leading to M. Tech (Research) and Ph.D. degree.

About the Manmade Textile Research Association:

Manmade Textile Research Association is a national level textiles research association, linked to the Ministry of Textiles, Government of India, and recognized as SIRO (Scientific and Industrial Research Organization) by Ministry of Science and Technology, engaged in the research and development of textiles in general, and man-made textiles in particular. The major activities carried out at MANTRA are research & development, testing, technical services, training, environment audit, energy audit. PSC, center of excellence in tech textiles, etc.

About the program:

Textile is one of the oldest and important industry satisfying basic needs of human beings. It's also highly labor intensive and second largest employment generator in the India. Considering its rich history and textile cluster in the Surat, this Faculty Development Program is planned. The content of program is balance among academia, research institutions and Industry, which will be excellent blend to get benefits to everyone. It will be highly beneficial to industry persons to know advances in the textiles, researchers to understand issues in the textile industry and academia to get the fundamental and advance knowledge of textile industry. Few faculties will be from consulting or industry firms and have very good knowledge.

Textile industry have changed a lot in last few decades and taking shape towards sustainable engineering by implementing the green technologies. There are various resources used in the textile industry, which need to be conserved to reduce the environmental effects and saving of valuable resources such as water, dyes, energy, and so forth. Therefore, sustainable advances in the textile industry are one of the important areas of research as well as for industrial persons.

Major contents:

- ❖ Overview of textile Industries
- ❖ Introduction of fiber and its advances (Manmade and natural fiber)
- ❖ Manufacturing of Yarn and advanced methods in yarn manufacturing: (Types of spinning, and advances in yarn manufacturing for energy reduction)
- ❖ Yarn preparatory, weaving and advancement in these technology
- ❖ Processing of fabric and overview of Latest technology in fabric manufacturing
- ❖ Cotton processing polyester & blends
- ❖ Machining used in process houses & energy recovery
- ❖ Energy overview in textile processing
- ❖ Electrical energy management
- ❖ Thermal energy management in various devices such as Stenters and other process and energy saving opportunities
- ❖ Green Technology by process modification
- ❖ Energy audit case studies in textiles industry
- ❖ Pinch analysis in Textile Industry
- ❖ Virtual visit to Testing laboratory/Textile dyeing and printing processes

About Surat City, Gujarat:

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.

Targeted participants:

The faculty members of the AICTE approved institutions, research scholars, PG scholars, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry, etc.) and staff of host institutions are eligible to attend the program

About program fees:

There is no registration fee to attend this program. Participants willing to participate in this online FDP should have the provision of laptop/desktop with good quality internet connections and other audiovisual facilities, as required for online training.

Registration procedure:

- ❖ Participants interested to attend this program need to make compulsory **online registration** on the below mentioned link:
<https://www.aicte-india.org/atal>
Register as participant and then apply.
- ❖ Numbers of participants are limited. Short listed candidates will be informed by emails.
- ❖ Online test will be conducted on the last day, and those who score more than 60% marks will be termed as successful candidates.
- ❖ Those who have attended 80 % or more and score more than 60% in the test will be issued a digital certificate by the ATAL Academy.

Contact details of Coordinators:

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Surat's trading stats

65,000

traders

700,000

power looms

4crore

metres of
cloth
manufactured
daily

125,000

embroidery units

1mn

people in Surat dependent
on the textile industry.

₹400cr
daily
turnover

2.5 crore metres is the daily production since GST kicked in, as
per Federation of Surat Textile Traders Association