ABOUT THE INSTITUTE

The institute was established in 1961 as a Regional Engineering College and was given a Deemed University status on 4th October 2002 as a National Institute of Technology with the objective to provide high quality technical education to meet the needs of the Nation in the present competitive world. At present, the Institute is offering 6 UG and 15 PG Programmes in various disciplines of Technology as well as three 5 Year Integrated M.Sc. Programmes. The Institute also offers Ph.D. Programmes in all disciplines of Engineering and Applied Sciences. Institute receives research project grants from MHRD, DST, CSIR, GUJCOST, BRNS, etc. Institute is actively involved in the consultancy projects. SVNIT has an excellent placement record with a number of top-ranking companies visiting the campus every year.

ABOUT THE DEPARTMENT

Chemical Engineering Department of S. V. National Institute of Technology, Surat was started in 1995. The Department has built up a comprehensive research infrastructure with top-notch facilities for carrying cutting-edge teaching and research. The department strives to provide facilities and environment that are conducive for creative and dynamic work. The Department is fully equipped with modern equipments and computer facilities which are being entertained by trained and experienced faculties. The Chemical Engineering UG (Four Year B.Tech.) and PG (Two Year M.Tech.) Programme are fully accredited by National Board of Accreditation (NBA). Chemical Department also offers PhD in Chemical Engineering and M.Tech. (Research). For more details about the achievements and activities, visit the website.
http://www.svnit.ac.in/web/department/chemical/chemical_dept.php

AICTE Training and Learning (ATAL) Academy Sponsored

ONLINE
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on

GREEN TECHNOLOGY TOWARDS SUSTAINABLE FUTURE

26th – 30th October2020

:: Organized by ::

Department of Chemical Engineering
Sardar Vallabhbhai National Institute of Technology (SVNIT)
Surat-395007 (GUJARAT)

INTRODUCTION

Chemistry and engineering are, and will certainly continue to be, the primary drivers for well-being, growth and sustainable development in the economy during this century. However, because of stringent government norms, public awareness, increasing concern towards ecology, biodiversity, environment and energy; an exponential inclination towards "Green Chemistry and Engineering" is being witnessed. This is a concept which seeks to improve the environmental performance and safety of chemical processes and to reduce the risks to human and the environment of chemical products. Waste minimization and reductions in materials and energy consumption as well as in risk and hazard are the key features. Furthermore, modifications in existing technology and development of new processes are very important not only to alleviate environment and energy related problems but also for fast and flexible response to market need. The tools and techniques such as life cycle analysis are complimentary for designing sustainable processes and products. Green chemistry and engineering are allied and integral for a sustainable future.

Green chemistry and engineering offer many benefits to scientists, educators, businesses, policymakers and the public. For scientists, it provides a platform for not only avoiding or eliminating hazards and waste, but also for creating new, innovative and efficient methodologies. For educators, it can be a tool for inspiring students to pursue scientific careers and to spread awareness among various communities. For business, it can help to realize cost saving through reduction in waste generation and disposal, energy consumption and worker liability while offering competitive advantages in existing market along with a greater value addition to customers and overall higher innovation potential leading to the creation of new market. For the public, it means a cleaner and safer environment as well as greater economic opportunities.

COURSE OBJECTIVES

To develop the fundamental understanding of the principles of green chemistry and engineering.

To enhance the understanding for using solvents and catalyst towards sustainable process development.

To provide participants with ability to identify and utilize appropriate techniques to address specific problems.

To expand skills in process intensification.

To provide an understanding of various green routes towards production of chemicals and energy from waste and non-conventional sources.

COURSE CONTENT

Principles of Green Chemistry and Engineering, Neoteric Solvents, Green Catalysis, Novel Separation Techniques, Process Intensification, Waste Valorization, Fuels and Chemicals Generation via Greener Routes, Life Cycle Assessment etc.

FACULTY

Experienced and recognized experts from various Engineering institutes like IITs, NITs and Field Experts from industries will conduct the program.

ELIGIBILITY

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.

COURSE FEE

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

REGISTRATION

Participants interested to attend this program need to make compulsory online registration on the below mentioned link:

https://atalacademy.aicte-india.org/signup

Online registration is first come first serve basis. Shortlisted candidates will be informed through their email.

Online test will be conducted on the last day of the FDP and those who score more than 60% marks will be termed as successful candidates.

Those who have attendance 80% or more and also score more than 60% in the test will be issued a digital certificate by the ATAL Academy.

COORDINATORS

Dr. Jigisha K. Parikh
Dr. Sanjay R. Patel
Dr. Meghal A. Desai
Dr. Girirajsinh C. Jadeja

ADDRESS FOR CORRESPONDENCE

Coordinator-GTSF,
Chemical Engineering Department,
S.V. National Institute of Technology,
Surat-395007 (Gujarat)
Phone:0261-2201689,1710,1709,1643, 1642
Website: www.svnit.ac.in