

## **EVENT REPORT**

**Title of the Programme:** Sustainable Approaches in Engineering

**Programme code:** NC-GUJ-21

**Programme duration:** 16/01/2024 to 20/01/2024

**Venue:** NITTTR, Extension Centre, Ahmedabad

A Short Term Training Program (STTP) on “Sustainable Approaches in Engineering” was organized by Chemical Engineering Department, L. D. College Of Engineering, Ahmedabad during 16th – 20th January, 2024 in collaboration with NITTTR Gujarat Extension Center, Ahmedabad. A total of 36 participants including faculties from various degree and diploma engineering colleges from all over Gujarat attended the STTP. The inauguration ceremony was held on 16/01/2024 at 10:00 AM. The chief guest of the function was Honorable Dr. Nilesh Bhuptani, Principal, Vishwakarma Government Engineering College, Chandkheda, Ahmedabad. The guest of Honour was Major Dr. C. S. Sanghvi, Principal of L. D. College of Engineering, Ahmedabad. Dr. P. H. Rana, Head of the Department, Chemical Engineering was also present. All the dignitaries in their respective speeches highlighted the importance of the STTP and its relevance in the modern world. Dr. Nishith Dubey, Professor, NITTTR, Bhopal was the coordinator of the STTP and Dr. P. H. Rana and Dr. S. M. Dutta worked as the co-coordinators of the STTP.

During the one week period experts in the field of chemical engineering and chemistry shared their knowledge and experiences with the participants. Experts from industry also highlighted the industrial aspects of sustainable development. Experts from academia from the chemical engineering field like Dr. R. K. Mewada, Dr. Kaushik Nath, Dr. Swapnil Dharashkar, Dr. Bharat Modhera, Dr. P. H. Rana, Dr. S. M. Dutta, Dr. N. R. Vaghela, Dr. Vimal Gandhi delivered lectures on the sustainable approaches in engineering for technology development. Experts from the field of chemistry like Dr. P. N. Dave, Dr. Charulata Dubey, Dr. Kamlesh Gurjar also delivered expert lectures in various topics related to chemical synthesis and material development. Stalwarts from

industry like Kaushik Patel, Glacion Chemicals, Shri Dhiraj Nimje, Chem Process Systems Pvt. Ltd. and Shri Anand Bhatt, TFI Filtration (India) Pvt. Ltd, Vatva shared their expertise based on implementation of sustainable technologies at industry. An industrial visit was carried out at TFI Filtration (India) Pvt. Ltd, Vatva where all the participants got a hand-on experience on sustainable solution providing in the field of filtration catering to various process industries. Special emphasis was given to the research work that can be carried in the area of chemical and allied engineering, material synthesis, nanoscience etc. The importance of green engineering and green chemistry and their role in technology development was highlighted. The workshop was highly appreciated by the faculty community. The faculties were benefitted immensely from the lectures and experiences shared by the experts and industrialists which will surely help them in their academic career and in their research work.

The valedictory session was conducted in the afternoon hours from 4:00 pm onwards on 20/01/2024. The event was graced by Dr. Ravi Kumar Gupta, Professor, NITTTR and Dr. Bhavik Suthar, Principal, L. E. College Morbi who asked the faculties to come up with more such workshops which benefits the overall community. The coordinators highlighted the achievements of the workshop. Certificates were distributed to the participants. Participants shared their feedback about the workshop. All the participants gave a positive feedback about the workshop and welcomed the initiative. The ceremony was concluded by a vote of thanks.

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## EVENT PHOTOGRAPHS





## EVENT PHOTOGRAPHS



## **PROGRAMME SCHEDULE**

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Date	Session I 10.00 - 11.30	Session II 11.45-1.15	Session III 2.15-3.45	Session IV 4.00- 5.30
<b>Day 1</b> 16/01/2024	<ul style="list-style-type: none"> <li>Registration</li> <li>Inauguration</li> <li>Programme brief</li> <li>Expectations</li> </ul>	“Sustainable approaches in reaction engineering” (Dr. R. K. Mewada, Prof., LEC, Morbi)	“Sustainability in Membrane Engineering: Trends and Drivers” (Dr. K. Nath, Prof & Principal, GCET, VVNagar)	Role of Cleaner Production in environment remediation (Dr. Bharat Modhera, Asso. Prof. MNIT, Bhopal)
<b>Day 2</b> 17/01/2024	“Sustainability in Engineering” (Dhiraj Nimje, Snr. Executive R&D · Chem Process Systems Pvt. Ltd)	“Microwave Assisted Synthesis of Advanced Nanomaterials” (Dr. Charulata Dubey, Asst. Prof., CUG, Gandhinagar)	“Advancement in filtration to achieve sustainability” (Anand Bhatt, TFI FILTRATION (INDIA) PVT. LTD, Vatva)	Task/Assignment
<b>Day 3</b> 18/01/2024	“Chemistry for sustainable approaches” (Kaushik Patel, Glacion Chemicals)	“Inter disciplinary approaches to Green chemistry” (Dr. Kamlesh Gurjar, Asst. Prof., VGEC, Chandkheda)	“Sustainable approach in Catalyst Development” (Dr. P. H. Rana, Prof., LDCE, Ahmedabad)	Task/Assignment
<b>Day 4</b> 19/01/2024	“Fuel development” (Dr. Swapnil Dharaskar, Asso. Prof. & HoD, PDEU, Gandhinagar)	“Sustainable approach in Forward Osmosis Technology Development” (Dr. S. M. Dutta, Asso. Prof., LDCE, Ahmedabad)	Industrial Visit	
<b>Day 5</b> 20/01/2024	“Electrochemical Processes: A Green Approach for wastewater treatment” (Dr. N. R. Vaghela, Asso. Prof., GEC, Valsad)	“Sustainable Approaches towards nanomaterials development and application”(Dr. P. Dave. Prof. SPU, VVNagar)	“Green Engineering and sustainable development” (Dr. Vimal Gandhi, Asso. Prof., DDU, Nadiad)	Feedback and Valedictory session

**Tea Break:** 11.30 AM to 11.45 AM and 03.45 PM to 04.00 PM; **Lunch Break:** 01.15 PM to 02.15 PM



## LIST OF PARTICIPANTS

Sr. No.	Name	Designation	Dept.	Institute
1.	UMESH NARANBHAI PATTANI	HOD	Civil	BPTI, Bhavnagar
2.	ALPESH SUNDARLAL RANA	AP (CI-2)	Chemical	GEC, Bharuch
3.	UDYAKUMAR VITTHALRAO JOSHI	AP (CI-2)	Mechanical	GEC, Bharuch
4.	PIYUSHKUMAR GOKALDAS BHAKHAR	AP (CI-2)	Mechanical	GEC, Bharuch
5.	WILLIAMS JOY KOSHY	AP (CI-2)	Chemical	GEC, Bhuj
6.	LAKHA V CHOPDA	AP (CI-2)	General	GEC, Bhuj
7.	SANJAY KUMAR SINGHAL	Asso. Pr. (CI-1)	General	GEC, Palanpur
8.	RASMITA AAMRUTBHAI PATEL	Lecturer	Archi. Asst.	GGP, Ahmedabad
9.	SEFALI HARSHADBHAI BRAHMBHATT	Lecturer	Archi. Asst.	GGP, Ahmedabad
10.	DIPESH HARESHBHAI DALAL	Lecturer	Civil	GGP, Ahmedabad
11.	SHILPABEN SHANKARBHAI PATEL	Lecturer	Chemical	GP, Gandhinagar
12.	CHARMI BHAVESHKUMAR DESAI	Lecturer	Chemical	GP, Gandhinagar
13.	AKSHAY VINAYCHANDRA VORA	Lecturer	Civil	GP, Himatnagar
14.	KETANKUMAR CHHAGANLAL VARMORA	Lecturer	Civil	GP, Kheda
15.	KOMAL DHARAMDAS BHOJWANI	Lecturer	Civil	GP, Kheda
16.	RAVINDRA VITHALBHAI JIYANI	Lecturer	General	GP, Porbandar
17.	JIGNESH PRAVINKUMAR OZA	Lecturer	Civil	GP, Rajkot
18.	HITENKUMAR AMARKUMAR CHAUHAN	Lecturer	Civil	GP, Vadnagar
19.	MEHUL PRASHANT DESHPANDE	Lecturer	Chemical	GP, Valsad
20.	PARTH DHRUVKUMAR PRAJAPATI	Lecturer	Chemical	GP, Valsad
21.	HITESHBHAI SHANKARBHAI PATEL	Lecturer	Mechanical	GP, Valsad
22.	JAYANTIBHAI AMRUTBHAI PATEL	Lecturer	Civil	KDP, Patan
23.	BRIJESHKUMAR DILIPBHAI PATEL	Lecturer	Mechanical	KDP, Patan
24.	JIGNESHKUMAR DAHYABHAI PATEL	Lecturer	Mechanical	KDP, Patan
25.	RAJARAMAN S T	AP (CI-2)	Chemical	LDCE, Ahmedabad
26.	NIKITA JAYANT AMBEGAONKAR	AP (CI-2)	Chemical	LDCE, Ahmedabad
27.	PIYUSHKUMAR SUMANBHAI PATEL	AP (CI-2)	Chemical	LDCE, Ahmedabad
28.	PRATIMA KRUNALKUMAR SHAH	AP (CI-2)	Civil	LDCE, Ahmedabad
29.	BHAVESHKUMAR KANUBHAI PATEL	AP (CI-2)	Mechanical	LDCE, Ahmedabad
30.	NAVEEN KUMAR MANGERAM SHARMA	AP (CI-2)	General	LEC, Morbi
31.	SURESH MAGANLAL TANK	Lecturer	Mechanical	RCTI, Ahmedabad
32.	IQBALAHMED RAHEMANBHAI MOMIN	Lecturer	Mechanical	RCTI, Ahmedabad
33.	TARUNKUMAR MOHANBHAI PATEL	Lecturer	General	SSGP, Surat
34.	DOLLY RAJNIKANT GANDHI	Asso. Pr. (CI-1)	Chemical	VGEC, Chandkheda
35.	FEMINA JITENDRA PATEL	Prof. (CI-1)	Chemical	VGEC, Chandkheda
36.	DISHA DHIRAJLAL TILALA	AP (CI-2)	General	VGEC, Chandkheda

# EVENT BROCHURE

## Course Objectives

The program will aim to provide exposure towards the research trends and technological developments in the field of chemical and allied engineering for sustainable development. The program will enable technical teachers to gain useful insight towards the industrial application and practical implementation of the various technologies towards sustainable development.

## Course Content

- Overview of research trends and technological advancement in chemical engineering towards sustainable development.
- Catalysis and reaction engineering for sustainable development
- Green chemistry and green technology.
- Advanced separation / oxidation processes, electrochemical processes.
- Advances in nanomaterials towards sustainable development
- Developments in separation science
- Sustainable approaches in Biochemical engineering and biochemistry.

## About NITTTR Gujarat Extension Center

NITTTR Gujarat Extension Center, Ahmedabad was established in 1974 and for last forty nine years it is catering for the needs of the Gujarat state. It helps the Gujarat Technological University, Commissionerate of Technical Education, Gujarat, other self-financed universities and institutes in improving quality of engineering and technical education by working as a link between these organization and NITTTR, Bhopal.

## About the institute

L. D. College of Engineering is a premier Engineering college in Gujarat State set up with the objectives of imparting higher education in various fields of engineering. The institute is affiliated to Gujarat Technological University and administered by the Department of Technical Education, Gujarat state. Seven departments of this institute have been conferred accreditation status by the National Board of Accreditation (NBA). The campus consists of buildings for various departments, offices, hostels and library with 64,565 m<sup>2</sup> built-up area. At present, the institute runs 16 Under Graduate, 19 Post Graduate and 4 Part time programs.

## About the Department

The Chemical Engineering Department started its UG course in 1974 with an intake of 30 students and is affiliated to Gujarat University. From 2008 onwards, the intake was increased to 60 students with affiliation to Gujarat Technological University. The post graduate course started in 2002 with an intake of 18 students offering specialization in Computer Aided Process Design (CAPD). The department is currently headed by Dr. P. H. Rana. The department has 2 Professor, 3 Associate Professors and 11 Assistant Professors. The department has well developed laboratories and computer center. The department works for the overall development of the students by regularly organizing workshops, expert lectures, industrial visits and other technical activities. The students are regularly placed in good corporate houses after successful completion of courses.



**CTE approved**

**One week STTP on  
Sustainable Approaches in  
Engineering**

**16<sup>th</sup> January to 20<sup>th</sup> January 2024**

**Program Code: NC-GUJ-21**

**Organized by**

**NITTTR Gujarat Extension Center,  
Ahmedabad**

**in collaboration with**

**Department of Chemical Engineering  
(NBA Accredited)  
L. D. College of Engineering,  
Ahmedabad, Gujarat**



## Resource Persons

Eminent speakers from reputed universities, industries and institutes of national repute.

## Venue

The training will be organized at NITTTR Gujarat Extension Center, Ahmedabad currently located at RCTI, Sola, Ahmedabad. Lodging and boarding facilities may be provided for outstation candidates at nominal charges.

## How to apply

Number of participants: 50 (maximum)

Application through TNA Portal for government faculty is compulsory. After getting approval register at NITTTR using below link.

All other applicants need to register directly at NITTTR using below link.

<https://erp.nitttrbpl.ac.in/poc2023/onlineMode/partiLogin.jsp?calSession=2023-2024>

Additionally send the scanned copy of duly filled application form to the coordinator on or before 10/01/2024 via email ([smdutta@ldce.ac.in](mailto:smdutta@ldce.ac.in)).

## Important Dates

Last date for receipt of Application is 10/01/2024.

## Who can apply

Faculty from chemical, rubber, plastic, environmental, mechanical, civil engineering and/or allied branches from Degree/Diploma Government and Self-financed colleges can apply for the training.

## Registration Fee

Participant will have to register at NITTTR portal with a registration fee of Rs 118/-.

## For further details contact:

Prof. (Dr.) Nishith Dubey,  
Professor & Coordinator,  
NITTTR Gujarat Extension Center,  
Ahmedabad.  
Mobile: 9229241793

Dr. Paresh H. Rana  
Mobile: 9426387928  
Dr. Supritam M. Dutta  
Mobile: 9426526323

## Organizing Committee

### Patron

**Prof. (Dr.) C.S. Sanghavi**  
Principal,  
L. D. College of Engineering, Ahmedabad

### Course Coordinators

- ◆ **Prof. (Dr.) Nishith Dubey**  
Professor, NITTTR, Bhopal

### Course Co-Coordinators

- ◆ **Prof. (Dr.) Paresh H. Rana**  
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