

## Objectives

At the end of the program, the participants will be able to:

- ✓ develop programs with MATLAB in the areas of chemical engineering
- ✓ apply MATLAB for chemical engineering subjects
- ✓ adapt MATLAB for computational problems

## Course Contents

MATLAB is a high level programming language, it is widely used for computation analysis and controls in almost all engineering disciplines. MATLAB is a combination of the words matrix and laboratory. MATLAB turns out to be one of the powerful software tools that enhances students' learning by doing and enables research scholars to implement their ideas in order to furnish Proof-of-Concept (PoC). The tool is versatile and is widely being used for technical computation, numeric evaluation, scientific analysis, graphical visualization, modeling, controlling, etc. in diversified disciplines. Thus, the proposed short-term course would be highly beneficial and productive since participants will have the opportunity to practice in real-time rather than being mere spectators. The mode of delivery would be the chalk-board, presentations and hands on practices.

## Resource Persons

Course will be conducted by practicing engineers from various organizations, industries working in the area of simulations and senior faculty members.

## Evaluation Criteria and Grade Allocation

A method of formative and summative assessment will be followed to evaluate the learning by participants during the programme and grades will be allocated to the participants based on the evaluation. The certificate will be given only to those participants who have been able to successfully clear the evaluation criteria. The communication will be issued for the participants not able to clear the programme requirements through the letter on the institute letter head.

## Eligibility for STTP

Faculty from Chemical Engineering background, professionals from industries, utilities, consultants, R&D organizations in Chemical Engineering and relevant field, and Ph.D. Scholars.

## How to Apply ?

Interested faculty members from Engineering colleges, polytechnics, persons from industries and R&D organizations, Ph.D. scholars are requested to fill-up the attached application form and return it to the Coordinator, so as to reach on or before June 29, 2024. **Applicants should send the Demand Draft in favor of "Institute of Technology, Nirma University," payable at Ahmedabad.**

## Certificate from Sponsoring Authority

Certified that the above applicant is employed in our organization and the information stated by him/her has been verified and found correct. We sponsor him/her for attending Short Term Training Programme.

Date: \_\_\_\_\_ Signature of sponsoring  
Place: \_\_\_\_\_ authority with seal

## Course Fee and Registration

Faculty members	Rs. 5000/-
Participants from industry and R&D organizations	Rs. 8000/-
Full-Time research scholars (Pursuing PhD)	Rs. 3000/-

Course fees include softcopies of learning material, tea and working lunch. Participants are required to make their own arrangements for lodging, boarding and travelling. However, on request, the arrangement for accommodation can be made on chargeable basis. All other expenses are to be borne by the participants. Course fee is non-refundable.

## Important Dates

Last date for receipt of application	29/06/2024
Confirmation of selection by email / website	30/06/2024
Commencement of course	01/07/2024

Please send the duly filled application form to:

## Dr. Jayesh Ruparelia

Department of Chemical Engineering, School of Engineering,  
Institute of Technology, Nirma University  
Sarkhej- Gandhinagar Highway, Tragad Patia,  
PO Chandlodia, Ahmedabad - 382 481  
Tel.: (079)-71652132 (O), +91 - 9979865221 (M)  
E-mail: [jr@nirmauni.ac.in](mailto:jr@nirmauni.ac.in)

## APPLICATION FORM

ISTE Approved Short Term Training Programme  
on  
**MATLAB for  
Chemical Engineers**  
July 01 – July 12, 2024

**Under the Auspices of**  
Internal Quality Assurance Cell (IQAC)

**Organized by**  
Department of Chemical Engineering, School of  
Engineering, Institute of Technology,  
Nirma University, Ahmedabad

1. Name: .....
2. Designation: .....
3. Qualification: .....
4. D.O.B.: ..... Sex: Male / Female
5. Institution/Industry: .....
6. Mailing Address: .....  
.....  
Phone: ..... Fax: .....  
E – mail: .....
7. ISTE Membership No.: .....
8. Experience:  
Teaching: ..... Years ..... Months  
Industrial: ..... Years ..... Months
9. Subjects Taught: .....
10. Hostel Accommodation required: Yes/ No
11. Demand Draft: Rs.: ..... No: .....  
dated: ..... Bank: .....

Place : \_\_\_\_\_  
Date : \_\_\_\_\_ Signature of Applicant

### **About Nirma University**

Nirma University was established in the year 2003 as a statutory university under Gujarat State Act at the initiative of the Nirma Education and Research Foundation (NERF). In 1994, the founder of Nirma Industries and an internationally renowned entrepreneur Dr. Karsanbhai K Patel crystallized his long-cherished dream of providing world-class facilities for professional education in Gujarat. He established NERF which in turn has established a 125-acre campus and eight institutions within a span of 15 years. Currently, eight institutes including the Institute of Technology are functioning under the aegis of NERF. All these institutions have emerged as centers of excellence offering various programmes ranging from undergraduate to doctoral levels. The University is duly accredited by National Assessment and Accreditation Council (NAAC) with “A+” Grade in the year 2022.

### **About Institute of Technology**

Institute of Technology, established in 1995, is the flagship Institute of the Nirma University. The Institute offers multidisciplinary undergraduate, postgraduate, and doctoral programmes in the discipline of Engineering and Technology. The School of Engineering offers four-year B. Tech. Programmes in Chemical, Civil, Electrical, and Mechanical Engineering, while the School of Technology offers B. Tech. Programmes in Computer Science and Engineering, Electronics & Communications, and Electronics and Instrumentation Engineering. All the B. Tech. Programmes are accredited by the National Board of Accreditation (NBA) under the Tier-I category. The Institute of Technology is a constituent institute of Nirma University, ranked in the band of 101-150 by the National Institute Ranking Framework (NIRF), making its mark among 4000 plus engineering colleges in the country.

### **Achievements of Institute of Technology**

- National Award for Engineering College having Best Overall Performance for the year 2002, Best Engineering Teacher & Best M.Tech. Thesis awarded for the year 2016 by Indian Society for Technical Education (ISTE).

- Students won national ROBOCON competition in 2002, 2003, 2006, 2008, 2011, 2014, 2015, 2018, 2021 and represented India in International meets.
- The Institute has been ranked 21<sup>st</sup> in Top 25 India’s Best Colleges and 2<sup>nd</sup> in West Zone by India Today in 2016.
- The Institute is ranked 3<sup>rd</sup> in top 10 T-Schools in the west zone by DataQuest CMR T-School Survey in 2017.
- Institute has been ranked 7<sup>th</sup> in top 10 Engineering colleges in India for placement by Higher Education Review, 2017

### **About the Department**

Department of Chemical Engineering offers B.Tech. Programme in Chemical Engineering and Ph.D. degree under the umbrella of Institute of Technology. Department is NBA accredited. The department is enriched with latest equipment and software Packages like ASPEN.HYSYS, ProSim, HTRI etc. The department has the state-of-art laboratories and all necessary facilities to enhance the quality of teaching-learning process. The department also organizes training programs, workshops, seminar and conferences for students, academicians and people from industries. The department is schedule I Environment Auditor recognized by GPCB, Gandhinagar.

### **Internal Quality Assurance Cell (IQAC)**

The Internal Quality Assurance Cell (IQAC) is a key step in setting long-term quality standards. IQAC is a significant administrative body that is responsible for all quality matters. It is the prime responsibility of IQAC to initiate, plan and monitor various activities that are necessary to increase the quality of the education, research and administrative aspects imparted in an institution. The role of IQAC in maintaining quality standards in teaching, learning and evaluation become crucial, and the present focus is to improve the functioning of IQAC with its expected outcomes. To channelize all efforts and measures of the university towards promoting its holistic academic excellence, the IQAC has been established. The prime task of the IQAC is to facilitate and participate in the development of a system for conscious and consistent improvement in the academic, research and administrative performance of the university.

ISTE Approved Short Term Training Programme  
on  
**MATLAB for  
Chemical Engineers**  
July 01 – July 12, 2024

**Coordinator**  
Dr. Jayesh Ruparelia

**Under the Auspices of**  
Internal Quality Assurance Cell (IQAC)



**Organized by**



Department of Chemical Engineering  
(NBA Accredited)  
School of Engineering, Institute of Technology,  
Nirma University,  
Sarkhej-Gandhinagar Highway  
Ahmedabad- 382 481, Gujarat, India  
Phone: +91-02717 – 241911/12/13/14/15,  
+91-079-71652000  
Fax: +91-2717-241917  
Website: [www.nirmauni.ac.in/ITNU](http://www.nirmauni.ac.in/ITNU)