SHORT TERM TRAINING PROGRAMME

on

ENGINEERING STATISTICS

&

DESIGN OF EXPERIMENTS

11th - 12th December & 14th - 16th December 2026

ORGANIZED

BY

Department of Chemical Engineering

Sardar Vallabhbhai National Institute of Technology (SVNIT),

Surat-395007 (GUJARAT)

In Collaboration with

JMP

INTRODUCTION

Design of Experiments (DOE) deals with planning, conducting the experiments, and then analysing and interpreting the response to evaluate the factors' effect to control the value of a parameter or group of parameters. A strategically planned and executed experiment may provide a great deal of information about the effect on a response variable due to one or more factors. DOE simply helps to pinpoint the sensitive parts and sensitive areas in designs that cause problems to response variables. Designers are then able to fix these problems and produce robust and improved responses prior to going into production. Also, DOE is widely employed methodology across diverse industries such as chemical, biotechnology, mechanical/industrial, civil and pharmaceuticals, etc. aiming to systematically enhance processes, products, and overall outcomes.

Taguchi and Response surface methodologies are based on performing evaluation or experiments to test the sensitivity of a set of response variables to a set of control parameters (or independent variables) with an aim to attain the optimum setting of the control parameters. They are the highly utilized and well-defined techniques for the optimization of process parameters. Moreover, Placket-Burman design (PBD) and Definitive screening (DS) provide initial information about the parameters.

In this course, lectures will be delivered on the basic principles of statistics, Design of Experiments, Taguchi method, RSM and other optimization/screening tools. Also, a hands-on exposure to JMP software will be given to enhance the learning covering the aspects of DOE and Monte-Carlo simulation. Research-based and Industry-specific case studies will also be discussed during the course.

Primary objective of the course is to guide participants through the intricacies of experimental design, analysis, and optimization stages, ensuring a thorough and hands-on exploration of the DOE framework. After the completion of the course, participants will be able to

- Understand the importance of the Taguchi Method and Response Surface Methodology (RSM) in research as well as in industry.
- Apply Taguchi, RSM, PBD, DS, etc. in the field of interest.
- Utilize JMP software in their field.

At the end of the programme, participants will emerge with a heightened proficiency in utilizing DOE methodologies and the JMP software, empowering them to make informed decisions and drive continuous improvement in their work environments.

FACULTY

The eminent speakers from NITs and professionals from JMP (Dr. Muralidhara A.)

ELIGIBILITY

Faculty members, UG, PG and PhD scholars are eligible to attend the course. Industrial personnel can also attend the course.

ABOUT THE INSTITUTE

Sardar Vallabhbhai National Institute of Technology, Surat is an engineering institute of higher education established in 1961 and was granted the status of "Institute of National Importance" from 2007 by Parliament of India. At present, the Institute is offering 11 UG Programmes, 21 PG Programmes, 3 M.Sc. Five Years Integrated Programmes, five years dual degree B.Tech. + MBA programme, five years dual degree B.Tech. + M. Tech programme, MBA in Business Analytics, PG programmes by research, and Ph.D. programmes in all disciplines of engineering and applied sciences. Special attention is being given to interdisciplinary and collaborative research. Many eminent scientists and engineers have graduated from the institute. The institute has an excellent placement record with several top-ranking companies visiting the campus every year.

ABOUT THE DEPARTMENT

Established in 1995, the Department of Chemical Engineering, SVNIT, Surat, offers programmes leading to Bachelor's, Master's, and Ph.D. Degree in Chemical Engineering. The department has built a comprehensive research infrastructure with some top-notch facilities for carrying out cutting-edge research. The department strives to provide a conducive environment for creative and dynamic research work. The faculty members are granted several R&D projects from organizations like GUJCOST, DST, DBT, etc., and have high-quality research publications and patents. Currently, the Department has 19 faculty members with expertise in various domains of chemical engineering.

ABOUT JMP

Since 1989, JMP, (wholly owned subsidiary of SAS) has been transforming data analytics through its interactive visualization and robust statistics, leading to insight-driven advancements. Scientists and engineers' harness JMP to propel green-energy breakthroughs, expedite cancer therapies, and build high-tech space probes. J-M-P, pronounced 'jump,' embodies a leap in innovation and interactivity.

For more than 35 years now, JMP R&D is making each version of JMP more visual, more interactive, and more practical to help users understand their data. JMP statistical software is designed for scientists and engineers and used worldwide in nearly every industry.

JMP is a versatile desktop-based software with a user-friendly interface, excelling in statistical analysis, data visualization, design of experiments, multivariate analysis, quality & Six Sigma, Reliability and predictive modelling/Machine learning. To know more visit www.jmp.com

REGISTRATION FEE

Category	Online Fee	Offline Fee
Students (UG/PG/PhD)	Rs. 700/- + 18% GST = 826/-	Rs. 1500/- + 18% GST = 1,770/-
Faculty members	Rs. 1000/- + 18% GST = 1,180/-	Rs. 2000/- + 18% GST = 2,360/-
Industry personnel	Rs. 2000/- + 18% GST = 2,360/-	Rs. 5000/- + 18% GST = 5,900/-

Fill the Registration Form by clicking the following link: https://forms.gle/ti3wz3Nycu4Kmo7UA

The registration fee is non-refundable and should be paid online to the following account.

Account Name	Director, SVNIT-CCE
Account Number	37030749143
Bank	State Bank of India (SVRCET Branch, Surat)
IFSC Code	SBIN0003320



- Registration fee is non-refundable; kit, breakfast & lunch included for offline participants.
- On successful completion of the course, participants will be awarded certificate of completion.
- No TA-DA will be paid to any participants.
- Numbers of offline participants are limited to 50.
- The academic license for JMP is free. A professional from JMP will conduct introductory and subsequent training sessions associated with the JMP package.

IMPORTANT DATES

Last date of registration	30/11/2026
Date of intimation	02/12/2026

COORDINATORS

DR. S.K. SUNDAR
DR. SARITA KALLA
DR. GIRIRAJSINH C. JADEJA
DR. SANJAYKUMAR R. PATEL
DR. MEGHAL A. DESAI
DR. JIGISHA K. PARIKH

CONTACT DETAILS

COORDINATOR-DOE
DEPARTMENT OF CHEMICAL ENGINEERING,
S.V. NATIONAL INSTITUTE OF TECHNOLOGY,
SURAT-395007 (GUJARAT),
PHONE: 0261-2201658, 2201649, 2201660, 7456884672, 9599756825
E-MAIL: DOEDEC2026@GMAIL.COM