



## Smt. S. R. Patel Engineering College, Dabhi—Unjha

# TWO DAYS WORKSHOP ON DESIGN OF EXPERIMENTS USING TAGUCHI TECHNIQUE

**Visit Date:**

4th –5th December 2018

**Objective:**

This workshop is intended for PG, Ph. D. aspirants, UG students, Industry persons who wish to conduct planned and efficient experimentation. Hence, faculty members, students of engineering, management, pharmaceutical, science colleges and Industries will be benefited.

**Course Contents**

- Introduction to DoE and its Methods
- Fundamentals of Taguchi Methods
- Taguchi loss function and robust design
- Signal, noise and control factors
- Degrees of freedom
- Analysis of Means
- Analysis of Variance
- Prediction of optimum conditions
- Prediction of error variance
- Design of Experiments for Robust Design: Identification of signal, noise and control variables
- Identification and selection interactions
- Control factors and their levels
- Selection of design of orthogonal array, Modification of orthogonal arrays & linear graphs
- Performing matrix experiments
- Methods of analyzing experimental data, Interpretation of results

- Application Examples: Research Proposal Writing.

**Resource Persons**

Dr. Ganesh G Dongre Ph D (IIT Bombay) - Professor and Dean R & D, Vishwakarma Institute of Technology, Pune

Prof. Avadhoot U Rajurkar - Asst. Professor, Asst. Head - Academics, Dept. of Industrial & Production Engg. Vishwakarma Institute of Technology, Pune



CIPET : INSTITUTE OF PLASTICS TECHNOLOGY (IPT)  
@ AHMEDABAD

**Faculty visited:**

- Prof. Harshad C. Patel  
(Mechanical Engg.)

**Course Coordinator**

Mr. Raj Shekar

Mr. Dignesh Thesiya

