



**NITTTR  
BHOPAL**

**TVE-7/2024-2025**

**Advanced Quality Improvement Tools and Techniques**

**23-09-2024 to 27-09-2024**

**NITTTR Bhopal**



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## Rationale

Effective implementation of Quality Engineering methodologies and tools within the organization will improve communication between the engineering, manufacturing and service teams and ensure that the voice of the customer (VOC) is integrated into new or improved products or services. Quality systems in engineering refer to the structured processes, procedures, and practices that ensure that products or services meet specific quality standards and requirements. These systems are designed to manage and control the quality of products or services.

In this programme we aim to describe the advanced quality control and improvement tools so that for any process one can have skills to control and improve as per the desired conditions. Few tools like SPC, SQC Process mapping, root cause analysis, Six sigma etc tools will be discussed with respect to the practical Industrial application and case studies.

## Programme Outcomes

This course encourages participants

1. To think creatively about what it means for an organization to make quality the highest priority.
2. Learn how to use effective tools and techniques for quality design
3. Correlating the importance of customer-supplier relationships (CSR's) to achieving performance excellence.
4. Analyzing the concept of Statistical Process Control (SPC) and the types of variation.
5. Critical thinking
6. Measure the effect of the improvement work.
7. Propose how the improvements will be sustained.

## Programme Content

Basics Quality tools, SQC, Six Sigma concept, TQM, Critical thinking, IPR, Use of MINITAB SOFTWARE, AI TOOLS FOR QUALITY Improvement for Industry-4.0

## Target Group

Faculty of Engineering disciplines

## Coordinator & Co-Faculty

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