

## **SEMESTER-II (Pool-A)**

**COURSE NAME : STATISTICAL QUALITY CONTROL**

**(CHOI-A39)**

**Number of Credit: - 02**

**Maximum marks: 50**

Quality has become one of the most important consumer decision factors in the selection among competing products and services. The phenomenon is widespread, regardless of whether the consumer is an individual, an industrial organization, a retail store, a bank or financial institution, or a military defence program. Quality of a product or services is key of Success of the organization. At the end student can understand the scope and importance of quality of goods and canuse it in the industry.

### **Unit-I**

Why Quality control definition. Important Terms and Concepts DMAIC :- Define, Measure, Analyze, Improve, and Control.

### **Unit-II**

Statistical Methods Useful in Quality Control and Improvement.

### **Unit-III**

Inferences about Process Quality.

### **Unit-IV**

Basic Methods of Statistical Process Control and Capability Analysis.

### **Unit-V**

Control Charts for Variables Control Charts for Variables Control Charts for Attributes.

### **Book References:**

1. Introduction to Statistical Quality Control : DOUGLAS C. MONTGOMERY, John Wiley & Sons, Inc.
2. Elementary Statistical Quality Control : John T. Burr , Marcel Dekker, New York.

