



St. Joseph's Degree College Sunkesula Road Kurnool

Department of Statistics

Add on course on "Statistical Quality Control"

Academic Year - (2023-2024)

I. Kalyani M.Sc., B.Ed. Head of Department Department of Statistics

Course - STATISTICAL QUALITY CONTROL

Department of Statistics conducted Add-on Course for IIyear students based on Statistical control control. It is have been done from 06/03/2024 to 27/03/2024. This course was conducted every day from 3:00 p.m.to 5:00 p.m. these classes are conducted by lecturer P. Moulali.

Course objective

The main purpose of SQC is to derive statistical techniques that help separate assignable causes of variation from chance causes with real life applications.

Support to documents of the event as follows,

Request Letter

04-03-2024 Kurnool

To
The Chairman,
Internal Quality Assurance Cell,
St. Joseph's Degree College,
Kurnool.

Respected Sir/Madam,

Sub: Request to seek permission for conducting Add on course-Reg.

As per the discussion of the faculty members of statistics Department wants to conduct Add on course for the second-year students based on "Statistical quality control" to enhance academic knowledge regarding the subject on every day from 3:00 p.m. to 5:00 p.m. Hence, we request you to kindly give us permission.

Thanking You,

Yours faithfully,

(I. Kalyani)
Head of the Department
Department of Statistics

Circular to the students:

St. Joseph's Degree College Sunkesula Road Kurnool

Circular

All the IInd year students of statistics are hereby informed that there will be an Add-on course based on "<u>Statistical Quality Control</u>" every day from 3:00 P.m. to 5:00 P.m.

(I. Kalyani)

Head of the Department Department of Statistics

SYLLABUS

St. Joseph's Degree College Sunkesula Road-Kurnool Department of statistics

Add-on course: Statistical Quality Control Hours:30

Syllabus

Module 1: 6 Hours

Importance of SQC in industry, statistical basis of Shewart control charts, uses of control charts. Interpretation of control charts, control limits, Natural tolerance limits and specification limits.

Module 2: 12 Hours

Variable Control Chart: Construction of X bar, R charts for variables, Attribute control charts- NP, P charts, C chart.

Module 3: 6 Hours

Acceptance sampling plans: Scope, Producer's risk & consumer's risk. Concepts of AQL & LTPD.

Module 4: 6 Hours

Sampling Plans: Single and double sampling plans, OC and ASN functions, Double and single Sampling plans for attributes using Binomial.

ATTENDENCE

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Program photos







TEST- QUESTION PAPER

St. Joseph's Degree College

Sunkesula Road, Kurnool

Add-on course

Sub: Statistical Quality Control Time: 1 Hour Max.Marks: 30

Answer any **TWO** of the following questions

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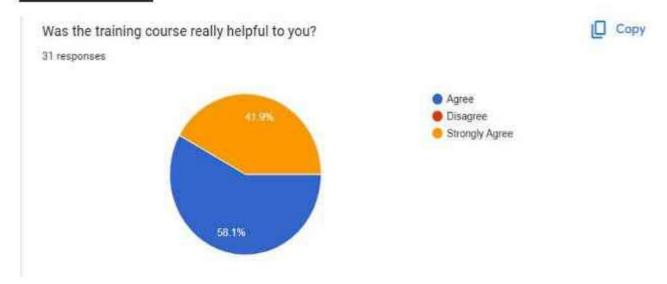
- 1. Explain shewart control chart
- 2. Explain Mean and Range chart
- 3. Explain single sampling plan method in OC- Course

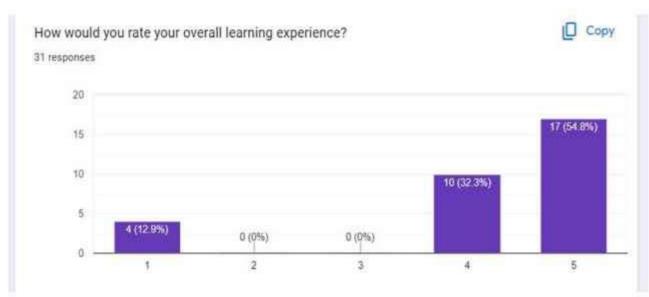
Answer any THREE Questions.

3x4=12 M

- 4. Define SQC and write its uses
- 5. Explain p- chart in two cases
- 6. Define AQL and LTPD
- Define 3σ limits
- 8. Define ASN and OC- Curve

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E-certificate



St.Joseph's Degree College Sunkesula Road, KURNOOL - 518 004, A.P www.sjckni.edu.in



This is to certify that

TELUGU SUSMITHA Mr. / Ms.

II MSCs - A

has successfully completed Add On Course on

STATISTICAL QUALITY CONTROL

from 06 March, 2024 to 27 March, 2024

Organizaciós

Department of Statistics

I Kalstone HOD

Vice Principal

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St.Joseph's Degree College

Sunkesula Road, KURNOOL - 518 004 , A.P. www.sjcknl.edu.in

Certificate of Completion

This is to certify that

V.Sri Harshini Mr. / Ms.

II MSCs - A

has successfully completed Add On Course on

STATISTICAL QUALITY CONTROL

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Ungaraged by

Department of Statistics

I Kalstoni HOD

Vice Principal

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OUTCOMES:-

After learning this course, the student will be able

- 1. To define 'quality' in a scientific way
- 2. To differentiate between process control and product control
- 3. To speak about quality awareness in industry
- 4. To pave a path to an industry to meet the standards
- 5. To effectively implement various plans to control the quality standards at various stages of an industry.