

ST.ANN'S COLLEGE FOR WOMEN

GORANTLA,GUNTUR-35

Date: 06-03-2023

From
Head,
Department of Statistics,
St. Ann's College for Women,
Gorantla, Guntur – 34.

To
The Principal,
St. Ann's College for Women
Gorantla, Guntur- 34.

Respected Sister,

Sub: Department of Statistics – Request to conduct ADD-ON CERTIFICATE
COURSE on Applications of Statistical Quality Control to students – Reg.

The Department of Statistics is Planning to conduct Add-On Certificate Course for the students of III B.Sc – Mathematics, Statistics and Computer Science Students on “Applications of Statistical Quality Control” from 20th March, 2023 to 29th March,2023. In this connection, We are requesting you to kindly permit us to conduct the above said course for the benefit of the students. After completion of this course, students should able to know about how to apply the statistics in Industry. The duration of the course is 32 Hours. We are Planned to commence the programme from 20th March, 2023.

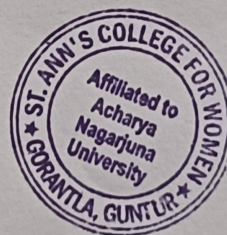
Thanking you,

Permission granted

Dr. Sr. Fatima Rana

PRINCIPAL

**St. Ann's College for Women
GORANTLA, GUNTUR-522 034**



Yours Sincerely

[Signature]
06/03/2023.

(Dr. J. Pratapa Reddy)

**Head of Dept. of Statistic
St. Ann's College for Wor.
GORANTLA, GUNTUR-522034.**



ST. ANN'S COLLEGE FOR WOMEN

(A Catholic Christian Minority Institution)
Affiliated to Acharya Nagarjuna University

AMARAVATHI ROAD, GORANTLA, GUNTUR - 522 035. A.P.

Date : 09-03-2023

ADMISSION NOTICE

ADD-ON CERTIFICATE COURSE : 2022 - 2023

The Department of Statistics proposes to enroll new batch for Add-on Certificate course in “ Applications of Statistical Quality Control (SQC) in Industry”. This Program is for the students of III Year B.Sc – MSCs students of our college. The course will commence from 20th March, 2023. Details of the course are:

No. of Seats available : 40

Venue for Registration : Department of Statistics – Lab

Period of Course : 20th March, 2023 to 29th March, 2023

Duration of the Course : 32 Hours

Time : 9.00 am to 11.00 am and 1.00 pm to 3.00 pm

Mode of Teaching : Offline

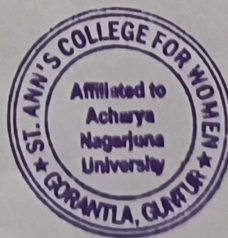
Course Co-ordinator(s) : Dr. J. Pratapa Reddy & Mrs. G. Vijaya Lakshmi

Last date for Registration : 18th March, 2023.

- ➔ A Minimum 80% attendance and 70% marks in Final assessment conducted by the Department are mandatory requirements for obtaining the certificate.
- ➔ Submitting the feedback of attended Add-on Certificate Course is one of the mandatory requirements to receive the certificate.
- ➔ Admissions are done on the basis of First Come and First Serve and Fee is not refundable.

Head of Dept. of Statist.

St. Ann's College for Women
GORANTLA, GUNTUR-522034.



Dr. S. Fatima
PRINCIPAL
9/3/23

St. Ann's College for Women
GORANTLA, GUNTUR-522 034

ADD-ON CERTIFICATE COURSE

Domain Subject : STATISTICS

Topic : “ Applications of Statistical Quality Control (SQC) in Industry”.

Number of Hours : 32

Name of the Course	Topic	Theory Hours	Practical Hours	Total Number of Hours
Add-on Certificate Course	Applications of Statistical Quality Control (SQC) in Industry	16	16	32

Course Objectives:

To understand the concept of quality, process control and product control using control chart techniques.

To have an idea about quality management, Natural tolerance limits, specification limits and standardizations for quality.

Learning Outcomes:

After learning this Add-on Certificate 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 distinguish between control charts for variables and attributes
5. To pave a path to an industry to meet the standards
6. To effectively implement various Control Charts to control the quality standards various stages of an industry.
7. Practical aspects and real data illustration of the related problems.

SYLLABUS: -

Theory

1. Role of SQC in Industry
2. Process Control and Product Control
3. Statistical basis of Shewart Control Charts
4. 3σ - Limits
5. Control Charts for Variables and Attributes
6. Mean and Range Charts - Construction
7. \bar{d} or np-charts - Construction
8. P-Chart - Construction
9. C-chart - Construction and Applications
10. Natural Tolerance Limits and Specification Limits

Practical/Lab

1. Construction of \bar{X} and R Charts.
2. Construction of p Charts for fixed sample size.
3. Construction of p Charts for variable sample size.
4. Construction of np Charts.
5. Construction of C charts.

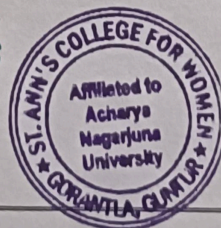
Text Books:

1. **Montgomery, D. C. (2008)**: Statistical Quality Control, 6th Edn., John Wiley, New York.
2. **S.C. Gupta and V.K. Kapoor**: Fundamentals of Applied Statistics - Chand publications.

References:

1. **R.C. Gupta**: Statistical Quality Control.

D.S. Feltima
20/3/23
PRINCIPAL
St. Ann's College for Women
GORANTLA, GUNTUR-522 034



1. *[Signature]* 20/3/23
Head of Dept. of Statistics
St. Ann's College for Women
GORANTLA, GUNTUR-5220
2. *[Signature]* 20/3/2023