

ST.ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34

NOTICE

Date: 15 - 09 - 2021

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 “*Statistical Tools for
Research Methodology*” to Final Year Students – Reg.

The Department of Statistics is Planning to conduct Add-On Certificate Course for III B.Sc – Mathematics, Statistics and Computer Science Students on “*Statistical Tools for Research Methodology*” from 20th September, 2021 to 9th October, 2021. 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 statistical tools in Research. We are Planned to commence the program from 20th September, 2021.

Duration of the course : 15 Days – 2 hours per day = 30 Hours.

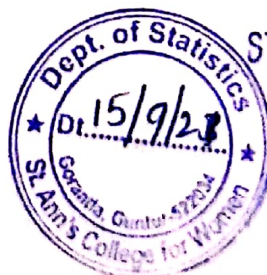
Thanking you,

Permission granted

Dr. S. Fatima Hans
15/9/2021

PRINCIPAL

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



Yours Sincerely

(Dr. J. Pratab Reddy)

Head of the Department
Department of Statistics
ST. ANN'S COLLEGE FOR WOMEN
Gorantla, GUNTUR-522 035

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GORANTLA, GUNTUR – 522034.

DEPARTMENT OF STATISTICS

ADD-ON CERTIFICATE COURSE - SYLLABUS

Program : III B.Sc – MSCs

Year : 2021-2022

Topic : “Statistical Tools for Research Methodology”.

Duration of the course : 30 Hours (20-09-2021 To 09-10-2021)

Name of the Course	Topic	Total Number of Hours
Add-on Certificate Course	Statistical Tools for Research Methodology	30

Course Objectives:

The aim of this course is

- To motivate the students an intrinsic interest in statistical thinking and instil the belief that statistics is important for Research.
- To understand the concept of Research, Types of Research and Design of a Research Problem.
- Develop skills in qualitative and quantitative data analysis and presentation.

Learning Outcomes:

After learning this Add-on Certificate Course, the student will be able to:


1. Demonstrate the ethical and philosophical issues associated with research in education.
2. To identify various sources of information for literature review and data collection
3. Describe and compare the major quantitative and qualitative research methods.
4. To interpret the Research Problems using statistical tools.

SYLLABUS: -

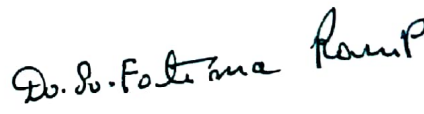
1. Formulation of Research – Meaning, objectives.
2. Problem Identification & Formulation – Research Question – Hypothesis —Null Hypothesis & Alternative Hypothesis. Hypothesis Testing.
3. Research Design – Types of Research Design.
4. Measurement - Levels of measurement – Nominal, Ordinal, Interval, Ratio.
5. Sampling - Concepts of Statistical Population, Sample, Sampling Frame, Sampling Error, Sample Size, Probability Sample – Simple Random Sample, Systematic Sample, Stratified Random Sample.
6. Data Analysis: Univariate data analysis techniques and Bivariate data analysis techniques.

Recommended Books:

1. Research Methodology – Methods and Techniques by C.R. Kothari
2. Research Methodology by Panneerselvam
3. Fundamentals of Statistics by S.C. Gupta.


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