

2019-20

Maths Department conducted the inauguration of Fundamental of Statistics (Certificate Course) held onwards 25/11/19 at V.G.D.C(W), Visakhapatnam.

Certificate course : Fundamental of Statistics

Duration of the period : 30 days

Classes taken by : Gandhi, Lec in Statistics
AVN College.

Timings : 9AM-10AM

~~P. Praveen~~
(Course Coordinator)

Course objectives:

- To develop the students ability to deal with numerical & quantitative issues in business.
- To enable the use of statistical, graphical and algebraic techniques wherever relevant.
- To have a proper understanding of statistical applications in Economics & Management.



Course outcomes:-

On completion of this course, the students will be able to:


- Describe & discuss the key terminology, concepts, tools & techniques used in business statistical analysis.
- Critically evaluate the underlying assumptions of analysis tools.
- Understand & critically discuss the issues surrounding sampling and significance.
- Discuss critically the uses & limitations of statistical analysis.
- Solve a range of problems using the techniques covered.
- Conduct basic statistical analysis of data.

The basic aim of statistics in this sense of a subject of study is to provide methods of organising and simplifying data so that their significance is comprehensible.

VISAKHA GOVT. DEGREE COLLEGE (WOMEN)
Re-Accredited With 'B' Grade by NAAC
Old Jail Road, Visakhapatnam-20. Andhra Pradesh



DEPARTMENT OF MATHEMATICS
INTRODUCTION CERTIFICATE COURSE
or
Fundamental Statistics



Objectives :-

- To develop the students ability to deal with numerical and quantitative issues in business
- To enable the use of statistical, Graphical and algebraic techniques wherever relievable
- To have a proper understanding of statistical applications in economics and management.
- To provide statistical concepts to include Probability, disruption, hypothesis testing, correlation analysis etc.

Course Coordinator Smt.P. Mangamma Lecturer in Mathematics	Faculty Mr.Gandhi Lecturer in Statistics AVN Degree College	Course Director Dr.P.Shobha Rani Principal
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FUNDAMANTALS OF STATISTICS

1 Sampling and Data

1. Introduction
2. 1.1 Definitions of Statistics, Probability, and Key Terms
3. 1.2 Data, Sampling, and Variation in Data and Sampling
4. 1.3 Frequency, Frequency Tables, and Levels of Measurement
5. 1.4 Experimental Design and Ethics
6. 1.5 Data Collection Experiment
7. 1.6 Sampling Experiment

2 Descriptive Statistics

8. Introduction
9. 2.1 Stem-and-Leaf Graphs (Stemplots), Line Graphs, and Bar Graphs
10. 2.2 Histograms, Frequency Polygons, and Time Series Graphs
11. 2.3 Measures of the Location of the Data
12. 2.4 Box Plots
13. 2.5 Measures of the Center of the Data
14. 2.6 Skewness and the Mean, Median, and Mode

3. Probability Topics

1. Introduction
2. 3.1 Terminology
3. 3.2 Independent and Mutually Exclusive Events
4. 3.3 Two Basic Rules of Probability
5. 3.4 Contingency Tables

4. Discrete Random Variables

14. Introduction
15. 4.1 Probability Distribution Function (PDF) for a Discrete Random Variable
16. 4.2 Mean or Expected Value and Standard Deviation
17. 4.3 Binomial Distribution
18. 4.4 Geometric Distribution
19. 4.5 Hypergeometric Distribution
20. 4.6 Poisson Distribution

5. 5 Continuous Random Variables

14. Introduction
15. 5.1 Continuous Probability Functions
16. 5.2 The Uniform Distribution
17. 5.3 The Exponential Distribution
18. 5.4 Continuous Distribution

6. The Normal Distribution

14. Introduction
15. 6.1 The Standard Normal Distribution
16. 6.2 Using the Normal Distribution

7. Confidence Intervals

14. Introduction
15. 8.1A Single Population Mean using the Normal Distribution
16. 8.2A Single Population Mean using the Student t Distribution

8. Hypothesis Testing with One Sample

14. Introduction
15. 9.1 Null and Alternative Hypotheses
16. 9.2 Outcomes and the Type I and Type II Errors

1. A. Hema Latha

2. A. Jhansi Kumari

3. B. Sivisha

4. B. Divya

5. B. Navya Bose

6. B. Esuvarani Eekshitha

7. C. Lavanya

8. D. parvanna Kumari

9. D. Swathi

10. D. vasantha Kumari

11. K. Lakshmi Bhavani

12. K. Vajram

13. K. Lalitha

14. K. Leela vathi

15. K. Mani

16. K. Aravani

17. K. Meenakshi

18. K. Bharu

19. K. Bhagya Jazmi

20. M. Apooiva

21. M. Sandhya

22. M. Rama

23. M. Ssi devi

24. M. Yamuna

25. M. pushpa

26. M. Keerthi

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	Score of the student	Max marks (25)
1. A. Hemalatha	21	
2. A. Jhansi kumari	18	
3. B. Srisha	20	
4. B. Divya	19	
5. B. Navya Sree	21	
6. B. Esvarisekshitha	18	
7. Ch. Lavanya	21	
8. D. Prasamakumari	21	
9. D. Swathi	22	
10. D. Vasanthakumari	18	
11. K. Lakshmi Bhavani	19	
12. K. Vajram	22	
13. K. Lalitha	21	
14. K. Keelavatti	20	
15. K. Mani	21	
16. K. Sravani	23	
17. K. Meenalshi	23	
18. K. Bharu	22	
19. K. Bhagyalakshmi	19	
20. M. Apoorva	21	
21. M. Sandhya	20	
22. M. Rame	18	
23. M. Sridevi	21	
24. M. Yamuna	20	
25. M. Pushpa	18	

26. M. Keerthi	19
27. O. Kumari	21
28. P. Sai Prabhanna	22
29. P. Siva kumari	20
30. P. Prabhanna	21
31. P. Mercy	19
32. S. Neeraja	18
33. S. Chellayamma	22
34. S. Lavanya	21
35. T. Sai Suprja	21
36. V. Sowjanya	20
37. V. Ravalika	18
38. V. Suneetha	19
39. V. Hemalatha	21
40. A. Swathi	23
41. B. Satya Santhoshi	20
42. B. Bujji	21
43. B. Mounika	22
44. B. Dhana lakshmi	19
45. B. Santhoshi	18
46. Ch. Ranya Sai	21
47. Ch. Gowthami	22
48. Ch. Bhavitha	18
49. Ch. Jayalaxmi	21
50. Ch. Valundara	20
51. Ch. Jabnevi	19
52. D. Gayathri	18

53.	G. malathi	21
54.	G. Vasundhara	22
55.	G. Lavanya	19
56.	I. Saraswari	23
57.	J. Ranjya	22
58.	J. Mounika	21
59.	J. Satyasri	21
60.	K. Monika	19
61.	K. Yashodhara	18
62.	K. Komali	20
63.	K. Renuka	22
64.	K. Pavani	22
65.	K. Sravani	21
66.	K. Divya	20
67.	M. Geethanjali	22
68.	M. Bhevari	19
69.	M.ALLEVI	21
70.	M. Hemalatha	22
71.	M. Rama	18
72.	M. Kalpana	21
73.	M. Sushmalai	18
74.	M. Komala	22
75.	O. Lalitha Kumari	21
76.	P. Jaya Shree	19
77.	P. Jyoshna	21

78.	P. Nandini	22
79.	P. Abhinavi	23
80.	R. Supriya	18
81.	R. Jyothi	21
82.	S. Hyma	19
83.	S. Yeshodha	21
84.	T. Bherathi	22
85.	V. mounika	20
86.	V. Rajyalakshmi	23
87.	K. Priyaaratchana	21

Report Summary Report

A certificate course on fundamental statistics has been conducted by Department of Mathematics, Visakha Government Degree College for women from 25/11/19 to 2/1/2020. with duration of 30 hours for B.Sc. Students

The objectives of the course are to develop the following.

skills

- Able to collect relevant data by using their statistical skills
- It helps in the proper and efficient planning of a statistical inquiry in any field of study.

Employability opportunities:-

Students may get job opportunities in finance and investment analyst and advisor business and related associate professionals.

An external faculty Mr. Gandhi, B.A. in Statistics, AVN Degree College has been impacted the course and 87 students attended the course

The course content mainly focused on

- Data, Sampling, Variation in Data Sampling

- Skewness and the mean, Median, Mode.

- Basic rules of Probability

Written Exam for 25 marks has been conducted at the end of the course to assess the outcomes where in all students attempted the assessment and completed the course successfully.