TEACHING PLAN

A. GENERAL INFORMATION

Name of the Faculty : Mrs. A. Madheswari, HOD of Statistics

Department : Statistics

Programme : B.Sc

Programme Code : BST

Name of the Paper : Mathematical Statistics – II

Lecture Hours / Practical Hours : 3 Hrs / Week / Lecture Hours

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
• To impart the knowledge about the degree of relationship between variables and estimate unknown variable from known variable. • To acquire knowledge about normal distribution. • To impart the knowledge about exact sampling distribution. • To study large sample tests • To study small sample tests	• Compute correlation coefficients and regression equations. • Identify the applications of normal distribution. • Explain exact sampling distributions. • Apply large sample tests for research problems. • Apply small sample tests for research problems.	• Class room Chalk and Talk • Power point.

C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
Unit I Content-09 Hrs Assessment-03Hrs Total - 12 Hrs	Correlation – concept and properties Methods of studying correlation' Regression – properties Problems	24.02.2022 to 10.03.2022	3 3 3	Nil	Nil
Unit II Content-09 Hrs Assessment-03Hrs Total - 12 Hrs	Normal distribution-derivation properties of normal problems and Fitting of normal distribution.	11.03.2022 to 25.03.2022	3 3 3	Nil	Nil
Unit III Content-09 Hrs Assessment-03Hrs Total - 12 Hrs	Chi-square distribution t- distribution- F-distribution and relation among t, F and chi square distributions	28.03.2022 to 15.04.2022	3 3 3	Nil	Nil
Unit IV Content-09 Hrs Assessment-03Hrs Total - 12 Hrs	Basic concept of testing of hypothesis Applications of large sample tests	27.04.2022 to 10.05.2022	3 3 3	Nil	Nil
Unit V Content-09 Hrs Assessment-03Hrs Total - 12 Hrs	Applications of t-distribution. Applications of F-distribution.	11.05.2022 to 25.05.2022	3 3 3	Nil	Nil

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I CIA / Mid Semester – Unit-I - Unit-II ($2\frac{1}{2}$ Units) (April) Monthly Test– Unit –IV CIA / Model Examination -Unit-III – unit V (3 Units)(May)
Assignment	Assignment I – Unit –I and Unit –II (March) Assignment II – Unit –III and Unit – IV (April)
Quiz	Quiz Test - Unit I – Unit – V(May)
Seminar	Unit –V (May)
Tutorial Ward meeting	Monthly once

PRINCIPAL

Principal
A.D.M. College For Women
Autonomous, Nagapattinam.

TEACHING PLAN

A. GENERAL INFORMATION

Name of the Faculty : Mrs. A. Madheswari, HOD of Statistics

Department : Statistics

Programme : M.Com

Programme Code : MST

Name of the Paper : Business Statistics

Lecture Hours / Practical Hours : 6 Hrs / Week / Lecture Hours

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
• To create an overview about sampling and its various methods. • To impart the knowledge about the degree of relationship between variables and estimate unknown variable from known variable. • To study the various components of Time series. • To impart the basic concept of probability and its probability distributions. • To study the different types of test of hypotheses.	• Understand the statistical survey and various sampling techniques. • Study the correlation and regression analysis • Understand the uses and applications of Time series analysis. • Solve the problems related to probability and basic concept of probability distributions. • Understand the various statistical tools to apply for research.	• Class room Chalk and Talk • Power point.

C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
Unit I Content-21Hrs Assessment-3Hrs Total - 24 Hrs	Statistical survey-planning the survey and executing the survey, various random sampling methods various non-random sampling method sampling and non-sampling errors	25.02.2022 to 15.04.2022	8 8 5	Nil	Nil
Unit III Content-21Hrs Assessment-3Hrs Total - 24 Hrs	Time series – uses, components Measurement of trend Measurement of seasonal average	16.04.2022 to 10.05.2022	8 8 5	Nil	Nil

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I CIA / Mid Semester – Unit-I - Unit-II (2 Units) (April) CIA / Model Examination -Unit-III – unit V (3 Units) (May)
Assignment	Assignment I – Unit –III
Quiz	Two Mark Quiz Test - Unit I – Unit V
Seminar	Unit –III
Tutorial Ward Meeting	Monthly once

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TEACHING PLAN

A. GENERAL INFORMATION

Name of the Faculty : Mrs.K.Pushpanayaki

Department : Statistics

Programme : B.A.

Programme Code :BST

Name of the Paper : Statistics for Economics II

Lecture Hours / Practical Hours : 5 hrs / Week / Lecture Hours

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
• To impart the knowledge aboutthe distribution of data • To study the various types ofrelationship between the variables • to understand cause and effect relationship between thevariables • To study the relationshipbetween qualitative data • To study the basic concept of probability	• Measures Skewnessand Kurtosis • correlation analysis • Regression analysis • Association of attributes • Problems related to probability	• Power point. • Power point. • Chalk and talkmethod • Chalk and talkmethod • Chalk and talkmethod

C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
Unit I Content-17 Hrs Assessment-3Hrs Total - 20 Hrs	Introduction To skewness types of skewness Methods of measuring skewness-Kari Pearson's efficient of skewness, Bowley's coefficient of skewness- Kurtosis And types of kurtosis	21.02.2022 to 15.03.2022	8 7 2	Nil	Nil
Unit II Content-17 Hrs Assessment-3Hrs Total - 20 Hrs	Introduction to Correlation-Types of correlation Scatter diagram method-Karl Pearson's coefficientof correlation-Spearmint rank correlation coefficient	16.03.2022 to 30.03.2022	8 7 2	Nil	Nil
Unit III Content-17 Hrs Assessment-3Hrs Total - 20 Hrs	Introduction to regression-Properties of regressioncoefficients Regression equations of X on Y and Y on X-Problems on regression equations difference between correlation and regression	31.03.2022 to 13.04.2022	8 7 2	Nil	Nil
Unit IV Content-17 Hrs Assessment-3Hrs Total - 20 Hrs	Introduction to association ofattributes, Positive negative and ultimate class frequencies, Contingency table and consistency of the data, Types of association Methods of determining Association, comparison of observed and expected frequency method, Yule coefficient of association method Association method	26.04.2022 to 10.05.2022	8 7 2	Nil	Nil
Unit V Content-17 Hrs Assessment-3Hrs Total - 20 Hrs	Introduction to true probability Random experiment sample space and types of events, addition theorem on probability and simple Problems,multiplication theorem onprobability and various problems on probability	11.05.2022 to 22.05.2022	8 7 2	Nil	Nil

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test Unit-I (February)Monthly Test – Unit-II (March) **18.04.2022 to 25.04.2022** CIA / Mid Semester – Unit-I – Unit-III (First 1/2 Unit)- 2 ½ Units (February) Monthly Test Unit –IV (March) **24.05.2022 to 31.05.2022** CIA / Model Examination -Unit-III(Second 1/2 Unit) – Unit-V- 2 ½ Units
Assignment	Assignment I –Unit –I and Unit –II (February) Assignment II– Unit –III and Unit – IV (April)
Quiz	Two Mark Quiz Test - Unit I – Unit – V (May)
Seminar	Unit – I - V (to May)
Tutorial Ward Meeting	Monthly once

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TEACHING PLAN

A. GENERAL INFORMATION

Name of the Faculty : Mrs.K.Pushpanayaki

Department : Statistics

Programme : B.A.

Programme Code :BST

Name of the Paper : Quantitative Methods

Lecture Hours / Practical Hours : 4 Hrs/Week/Lecture Hours

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
• To impart the knowledgeabout collection of data • To condense the mass of data • To draw or diagrams and grapes • To acquire the knowledgeabout sampling • To enable the students to compute various measure of Central tendency	• Know different types of classification and different kinds of tables • Draw diagrams and grapes • Understand different typesof sampling • Understand where ismeasures of Centraltendency • Know different types of collection of data	• Power point • Power point • Class room Chalk and Talk methods • Power point • Class room Chalk and Talk methods

C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
Unit I Content- 13 Hrs Assessment -3Hrs Total – 16hrs	Introduction to statistics Functions and limitationof statistics sources of data-primaryand secondary methods of collecting primary data, sources of secondary data difference between primary and secondary data	21.02.2022 to 17.03.2022	8 5	Nil	Nil
Unit II Content- 13 Hrs Assessment -3Hrs Total – 16hrs	Introduction to classification-types of classification formation of frequency distribution-introduction to tabulation-parts of table rules for construction of table-difference between classification and tabulation	18.03.2022 to 31.3.2022	8 5	Nil	Nil
Unit III Content- 13 Hrs Assessment -3Hrs Total – 16hrs	line diagram and simple bardiagram-sub divided bar diagram multiple bar diagram-pie diagram graph histogram frequency, polygon frequency curve andgives difference between diagramsand graph	01.04.2022 to 13.04.2022	8 5	Nil	Nil
Unit IV Content- 13 Hrs Assessment -3Hrs Total – 16hrs	Introduction to samplingtechniques-Census method and sample methods-Random sampling and non-random sampling, Simple random sampling- Systematic randomsampling Stratified random sampling	26.04.2022 to 07.05.2022	8 5	Nil	Nil

Unit IV Content- 13 Hrs Assessment -3Hrs Total – 16hrs	Introduction to measure of Central tendency Arithmetic mean- Median and mode their merits and demerits simple problems	09.05.2022 to 17.05.2022	8 5	Nil	Nil

D.ACTIVITIES

Activities Name	Details
Test	Monthly Test Unit-I (February)Monthly Test - Unit-II (March) **18.04.2022 to 25.04.2022** CIA / Mid Semester – Unit-I Unit-III (First 1/2 Unit)- 2 ½ Units (April)Monthly Test– Unit –IV **24.03.2021 to 31.03.2021** CIA / Model Examination -Unit-III(Second 1/2 Unit) Unit-V- 2 ½ Units(May)
Assignment	Assignment I –Unit –I and Unit – II (March) Assignment II Unit – III and Unit – IV (April)
Quiz	Two Mark Quiz Test - Unit I – Unit – V (May)
Seminar	Unit –V (February to May)
Tutorial Ward Meeting	Monthly once

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TEACHING PLAN

A. GENERAL INFORMATION

Name of the Faculty : Mrs.K.Pushpanayaki

Department : Statistics

Programme : M.Com.

Programme Code : MST

Name of the Paper : Business Statistics

Lecture Hours / Practical Hours : 4 Hrs/Week/ Lecture Hours

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
• To impact the knowledge about the degree of relationship between variablesand estimate unknown variable from known variable • To impact the basic concept of probability and its probability distributions • To study the different types of test of hypothesis	• On completion of the course students should be able to do • Correlation and regression analysis • The problems related to probability • Testing hypothesis on research	• Power point • Power point • Class room Chalk and Talk methods • Power point • Class room Chalk and Talk methods

C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
Unit II Content-13 hrs Assessment-3hrs Total -16 hrs	Introduction tocorrelation, Types of Correlation, methods of correlation- Pearson's coefficientof correlation- Properties of correlation coefficient- Spearman's rank correlation coefficientrepeated and not repeated ranks- Simple problems- Introduction to regression -regression line - X on yand Y on x regression coefficientsdifference between correlation and regression analysis	21.02.2022 to 30.03.2022	8 5	Nil	Nil
Unit IV Content-13 hrs Assessment-3hrs Total -16 hrs	Introduction toProbability-Addition Theorem on probability-Multiplication Theoremon Probability, Problems on Probability; Introduction to theoretical distributions-Binomial distribution-Poisson distribution Normal distribution	31.03.2022 to 13.04.2022	8 5	Nil	Nil
Unit V Content-13 hrs Assessment-3hrs Total -16 hrs	Introduction to testingof Hypothesis-Concept of Samplingdistribution and Standard Error Null and Alternative hypothesis-Type I and Type II Errors-One and two tailed tests-Large Sample Test-Test for Single proportion and difference of proportions-Test for single meanand difference of means Paired 't ' test-Chi square test for Independence of Attributes, F test for equality of Variances, Analysis of Variance	26.04.2022 to 17.05.2022	8 5	Nil	Nil

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test Unit-II(February) Monthly Test Unit-IV(March) **18.04.2022 to 25.04.2022** -CIA/ Mid Semester Unit-I - Unit-III(First 1/2 Unit)- 2 ½ Units (April) Monthly Test Unit –IV (May) **19.05.2022 to 26.05.2022** CIA/Model Examination Unit-III(Second 1/2 Unit) Unit-V- 2 ½ Units
Assignment	Assignment I –Unit –I and Unit –IV (March) Assignment II -Unit – V (April)
Quiz	Two Mark Quiz Test - Unit I – Unit – V (May)
Seminar	Unit I–V (March to May)
Tutorial Ward Meeting	Monthly once

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