

## Teaching plan ( 2021-22 odd semester)

### A. GENERAL INFORMATION

Name of the Faculty : Mrs. A. Madheswari, HoD of Statistics  
 Department : Statistics  
 Programme : B.Sc Mathematics  
 Programme Code : BSM  
 Name of the Paper : Mathematical Statistics – I  
 Lecture Hours / Practical Hours : 60 Lecture Hours

### B. ABOUT THE COURSE

<ul style="list-style-type: none"> <li>• To equip the knowledge of probability.</li> <li>• To acquire knowledge about one dimensional random variables.</li> <li>• To acquire knowledge about two dimensional random variables</li> <li>• To impart the knowledge about mathematical expectation .</li> <li>• To study the discrete probability distributions.</li> </ul>	<ul style="list-style-type: none"> <li>• Study the various concepts of probability.</li> <li>• Understand the random variables and probability functions.</li> <li>• Study the bivariate probability distributions</li> <li>• Understand the concept of Mathematical expectation.</li> <li>• Understand the binomial and poisson distribution.</li> </ul>	<ul style="list-style-type: none"> <li>• Class room Chalk and Talk</li> <li>• Power point.</li> </ul>
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### C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
<b>Unit I</b>  Content- 9 Hrs, Assessment -3 Hrs  Total - 12 Hrs	<ul style="list-style-type: none"> <li>• Introduction to probability theory and Simple problems</li> <li>• Axiomatic probability and some basic theorems on probability .Addition and multiplication theorems.</li> <li>• Problems</li> <li>• Boole’s inequality</li> </ul>	09.08.2021	2 hrs		
		to	2 hrs		
		31.08.2021	4 hrs		
			1 hr		-
<b>Unit II</b>	• Introduction to random		2 hrs		

Content- 9 Hrs, Assessment -3 Hrs Total - 12 Hrs	<ul style="list-style-type: none"> <li>variables, distribution function and its properties.</li> <li>problems on discrete random variables.</li> <li>problems on continuous random variables.</li> </ul>	01.09.2021 to 24.09.2021	2 hrs  5 hrs	-	-
<b>Unit III</b> Content- 9 Hrs, Assessment -3 Hrs Total - 12 Hrs	<ul style="list-style-type: none"> <li>Two dimensional random variables.</li> <li>problems on discrete random variables.</li> <li>problems on continuous random variables.</li> </ul>	27..09.2021 to 18.10.2021	2 hrs  2 hrs 5 hrs	-	-
<b>Unit IV</b> Content- 9 Hrs, Assessment -3 Hrs Total - 12 Hrs	<ul style="list-style-type: none"> <li>Introduction to mathematical expectation</li> <li>Properties of mathematical expectation and variance.</li> <li>Problems</li> <li>conditional expectation and variance and its related problems</li> </ul>	19.10.2021 to 30 12.11.2021	1 hr 3 hrs 3 hrs 2 hrs	-	-
<b>Unit V</b> Content- 9 Hrs, Assessment -3 Hrs Total - 12 Hrs	<ul style="list-style-type: none"> <li>Generating functions</li> <li>Binomial distribution and simple problems.</li> <li>Moments, moment generating function, recurrence relation</li> <li>Poison distribution – moments, generating function, recurrence relation</li> <li>Fitting of binomial distribution</li> <li>Fitting of poison distribution</li> </ul>	15.11.2021 To 17.12.2021	1 hr 2 hrs 2 hrs 2 hrs 1 hr 1 hr	-	-

#### D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I Monthly Test - Unit-II

<p>Assignment</p> <p>Quiz</p> <p>Seminar</p> <p>Tutorial Ward Meeting</p>	<p>CIA / Mid Semester – Unit-I - Unit-II ( 2 Units ) ( September)</p> <p>Monthly Test– Unit –IV</p> <p>CIA / Model Examination –UnitI II- unit V (3Units) (December)</p> <p>Assignment I – Unit –I and Unit –II (September)</p> <p>Assignment II – Unit –III and Unit – IV (Novenber)</p> <p>Quiz Test - Unit I – Unit – V (December)</p> <p>Unit –V ( December)</p> <p>Monthly once</p>
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## TEACHING PLAN (2021-22 odd semester)

### A. GENERAL INFORMATION

Name of the Faculty : Mrs.A.Madheswari, HoD of Statistics  
 Department : Statistics  
 Programme : B.A Economics  
 Programme Code : BAE  
 Name of the Paper : Statistics for Economics – I  
 Lecture Hours / Practical Hours : 75 Lecture Hours

### B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none"> <li>• To impart basic statistical knowledge .</li> <li>• To condense the mass of data .</li> <li>• To draw diagrams and graphs</li> <li>• To enable the Students to compute various measures of averages and dispersion.</li> </ul>	<ul style="list-style-type: none"> <li>• Understanding the basic concepts of statistics</li> <li>• Presenting the data in neat, concise and comprehensible form .</li> <li>• Drawing various diagrams and graphs.</li> <li>• Calculating various measure of averages.</li> <li>• Calculating various measure of dispersions.</li> </ul>	<ul style="list-style-type: none"> <li>• Class room Chalk and Talk</li> <li>• Power point.</li> </ul>

### C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
<b>Unit I</b> Content- 12 Hrs, Assessment -3 Hrs Total - 15 Hrs	<ul style="list-style-type: none"> <li>• Basic concept of statistics</li> <li>• Data collection</li> <li>• Methods of collecting primary data.</li> <li>• Methods of collecting secondary data</li> <li>• Questionnaire</li> </ul>	27.09.2021 to 12.10.2021	3 hrs 2 hrs 3 hrs 2 hrs 2 hrs		-
<b>Unit II</b> Content- 12 Hrs, Assessment -3 Hrs Total – 15 Hrs	<ul style="list-style-type: none"> <li>• Classification – objectives , rules</li> <li>• Types of classification</li> <li>• Tabulation –objectives,</li> </ul>	13.10.2021 to 05.11.2021	2 hr 4 hrs 2 hrs	-	-

	<p>rules for constructing tables.</p> <ul style="list-style-type: none"> <li>parts of a table &amp; Kinds of tables.</li> </ul>		4 hrs		
<p><b>Unit III</b> Content- 12 Hrs, Assessment -3 Hrs Total - 15 Hrs</p>	<ul style="list-style-type: none"> <li>Diagrams - advantages, rules ,types of diagrams.</li> <li>To draw different types of diagrams</li> <li>Graphs – uses , rules</li> <li>To draw various graphs</li> </ul>	<p>08..11.2021 to 19.11.2021</p>	<p>2 hrs 4 hrs 2 hrs 4 hrs</p>	-	-
<p><b>Unit IV</b> Content- 12 Hrs, Assessment -3 Hrs Total - 15 Hr</p>	<ul style="list-style-type: none"> <li>Averages – Concepts</li> <li>Methods of measures of central tendency- mean , Median and mode.</li> <li>geometric mean and harmonic mean</li> </ul>	<p>22.11.2021 to 10.12.2021</p>	<p>1 hr 6 hrs 5 hrs</p>	-	-
<p><b>Unit V</b> Content- 12 Hrs, Assessment -3 Hrs Total - 15 Hrs</p>	<ul style="list-style-type: none"> <li>Dispersion – concept</li> <li>Various measures of dispersion</li> </ul>	<p>11.12.2021 To 30.12.2021</p>	<p>2 hrs 10 hrs</p>	-	-

#### D. ACTIVITIES

Activities Name	Details
Test	<p>Monthly Test- Unit-I Monthly Test - Unit-II CIA / Mid Semester – Unit-I - Unit-II ( 2 Units ) [September] Monthly Test– Unit –IV CIA / Model Examination -Unit-III – unit V ( 3 Units) [December]</p>
Assignment	<p>Assignment I – Unit –I and Unit –II (August) Assignment II – Unit –III and Unit – IV (September)</p>
Quiz	<p>Quiz Test - Unit I – Unit V ( October)</p>
Seminar	<p>December</p>
Tutorial Ward meeting	<p>Monthly once</p>



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## TEACHING PLAN (2021 -22 odd Semester )

### A. GENERAL INFORMATION

Name of the Faculty	: Mrs.K.Pushpanayaki
Department	: Statistics
Programme	: B.A.
Programme Code	: BAE
Name of the Paper	: Statistics for Economics III
Lecture Hours / Practical Hours	: 75 Lecture Hours

### B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none"><li>• To impart the knowledge about the theoretical distribution</li><li>• To study the different methods of Index Numbers</li><li>• To understand various components of Time Series</li><li>• To create an overview about Sampling and its various methods</li><li>• To know the basic concept of Vital Statistics</li></ul>	<p>To have the knowledge about</p> <ul style="list-style-type: none"><li>• The different types of Distribution</li><li>• The various methods of index numbers</li><li>• The uses and applications of Time series</li><li>• The application of sampling techniques</li><li>• The uses and application for collecting vital statistics</li></ul>	<ul style="list-style-type: none"><li>• Chalk and talk method</li><li>• Chalk and talk method</li><li>• Chalk and talk method</li><li>• Chalk and talk method</li><li>• Chalk and talk method</li></ul>

### C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
<b>Unit I</b> Content- 12 Hrs, Assessment -3 Hrs Total - 15 Hrs	<ul style="list-style-type: none"> <li>• Random variables- discrete and continuous</li> <li>• Binomial distribution and Problems based on binomial distribution</li> <li>• Poisson distribution and problems related to Poisson distribution</li> <li>• Normal distribution and its properties</li> </ul>	09.08.2021 To 19.08.2021	1hr 5 hrs 4 hrs. 2hrs	-	-
<b>Unit II</b> Content- 12Hrs, Assessment -3 Hrs Total - 15 Hrs	<ul style="list-style-type: none"> <li>• Introduction to Index Number</li> <li>• Uses of Index Numbers</li> <li>• Construction of Index Numbers</li> <li>• Unweighted Methods</li> <li>• Weighted Methods</li> <li>• Time and Factor Reversal Tests</li> </ul>	23.08.2021 To 04.09.2021	1hr 1hr 1hr 2hrs 4hrs 3hrs	-	-
<b>Unit III</b> Content- 12 Hrs, Assessment -3 Hrs Total - 15 Hrs	<ul style="list-style-type: none"> <li>• Introduction to Time Series</li> <li>• Components of Time Series</li> <li>• Moving average Method</li> <li>• Least square method</li> </ul>	05.09.2021 To 23.09.2021	1hr 2hrs 4hrs 5hrs	-	-
<b>Unit IV</b> Content- 12 Hrs, Assessment -3 Hrs Total - 15 Hrs	<ul style="list-style-type: none"> <li>• Introduction to Sampling Technique</li> <li>• Census Method</li> <li>• Sampling Method</li> <li>• Simple Random Sampling</li> <li>• Systematic Random Sampling</li> <li>• Stratified Random Sampling</li> </ul>	24.09.2021 To 07.10.2021	2hrs 2hrs 2hrs 2hrs 2hrs 2hrs	-	-
<b>Unit V</b> Content- 12 Hrs, Assessment -3	<ul style="list-style-type: none"> <li>• Introduction to Vital Statistics</li> <li>• Methods of obtaining vital statistics</li> <li>• Birth rates</li> </ul>	08.10.2021 To 22,05.2021	1hrs 3hrs	-	-

Hrs	• Death rates		4hrs		
Total - 15 Hrs			4hrs		

#### D. ACTIVITIES

Activities Name	Details
Test	<p>Monthly Test- Unit-I (October)</p> <p>Monthly Test - Unit-II (November)</p> <p><b>13.12.2021 to 18.12.2021</b></p> <p>CIA / Mid Semester – Unit-I - Unit-III (First 1/2 Unit)- 2 ½ Units (December))</p> <p><b>03.01.2022 to 08.01.2022</b></p> <p>CIA / Model Examination -Unit-III(Second 1/2 Unit) –Unit-V- 2 ½ Units (January)</p>
Assignment	<p>Assignment I –Unit –I and Unit –II (September)</p> <p>Assignment II– Unit –III and Unit – IV (October)</p>
Quiz	Two Mark Quiz Test - Unit I – Unit – V (December)
Seminar	Unit – I - V (November)
Tutorial Ward Meeting	Monthly once

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## TEACHING PLAN (2021-22 odd semester)

### A. GENERAL INFORMATION

Name of the Faculty : Mrs.K.Pushpanayaki  
 Department : Statistics  
 Programme : B.Com.,  
 Programme Code : BCO  
 Name of the Paper : Statistical Methods for Business  
 Lecture Hours / Practical Hours : 90 Lecture Hours

### B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none"> <li>• To impart the knowledge about collection and condensation of data</li> <li>• To study various types of averages</li> <li>• To enable to compute various Measures of dispersion</li> <li>• To impart the knowledge about The degree of relationship between variables and estimate Unknown variable from the known variable.</li> <li>• To impart the knowledge about the basics of Index Numbers</li> </ul>	<p>On successful completion of this course the students will be able to</p> <ul style="list-style-type: none"> <li>• know different methods of data collection classification and tabulation</li> <li>• the application of averages</li> <li>• the problems related to measure of dispersion</li> <li>• the application of correlation and regression</li> <li>• the uses and application of the Index Numbers</li> </ul>	<ul style="list-style-type: none"> <li>• Class room Chalk and Talk methods</li> <li>• Class room Chalk and Talk methods</li> <li>• class room Chalk and Talk methods</li> <li>• Class room Chalk and Talk methods</li> <li>• Class room Chalk and Talk method</li> </ul>

### C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
<p><b>Unit I</b></p> <p>Content: 15Hrs                      Assessment -3 Hrs                      Total – 15hrs</p>	<ul style="list-style-type: none"> <li>• Introduction To statistics</li> <li>• Functions and limitation of statistics</li> <li>• sources of data primary and secondary</li> <li>• methods of collecting primary data</li> <li>• Sources of secondary data</li> <li>• difference between</li> </ul>	21.09.2021	<p>1hrs</p> <p>2hrs</p> <p>1 hrs</p> <p>3Hrs</p> <p>2hrs</p>		

	primary and secondary data • classification and tabulation	To 09.10.2021	2hrs 4hrs	-	-
<b>Unit II</b> Content- 15Hrs, Assessment -3 Hrs Total - 15 Hrs	• Introduction to measures of dispersion • Arithmetic mean • Median • Mode • Geometric mean • Harmonic mean	11.10.2021 To 09.11.2021	1hrs 4hrs 3hrs 2hrs 3hrs 2hrs		
<b>Unit III</b> Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	• Introduction to measures • Range and Quartile deviation • Standard deviation • Coefficient of variation • Skewness and Kurtosis	12.11.2021 To 26.11.2021	1Hr 4Hrs 4hrs 2hrs 4hrs	-	-
<b>Unit IV</b> Content: 15hrs Assessment -3 Hrs Total - 18 Hrs	• Introduction to correlation • Types of correlation • Karl Pearson's coefficient of correlation • Spearman's Rank correlation coefficient • Introduction to Regression • Regression equations	27.11.2021 To 14.12.2021	1hr 1hr 3hrs 3hrs 2hrs 5hrs	-	
<b>Unit V</b> Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	• Introduction to Index Numbers • Construction of index numbers • Un weighted methods • Weighted methods • Time and factor reversal tests	15.12.2021 To 28.12.2021	1hrs 3hrs 4hrs 5hrs 2hrs	-	-

#### D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (October) Monthly Test - Unit-II (November) <b>13.12.2021 to 18.12.2021</b> CIA / Mid Semester – Unit-I - Unit-III (First 1/2 Unit)- 2 ½ Units (April) Monthly Test– Unit –IV () <b>03.01.2022 to 8.01.2022</b> CIA / Model Examination -Unit-III(Second 1/2 Unit) –Unit-V- 2 ½ Units ( May
Assignment	Assignment I –Unit –I and Unit –II (October) Assignment II Unit – III and Unit – IV (November)
Quiz	Two Mark Quiz Test - Unit I – Unit – V (December)
Seminar	Unit –V (October to December)
Tutorial Ward Meeting	Monthly once



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