



Lesson Plan for the Odd Semester 2022-2023

Name of the Assistant Professor: Dr. S. Santhakumar Class and Section: II B.Com., (A) Subject: Business Statistics Department: Mathematics Shift : II Sub Code : CZ33A

Week	Date	Topics
	18-Jul-22	Measures of Central Tendency
	19-Jul-22	Arithmetic Mean
	20-Jul-22	Arithmetic Mean
1	21-Jul-22	Median
	22-Jul-22	Mode
	23-Jul-22	Harmonic Mean
	24-Jul-22	Sunday
2	25-Jul-22	Geometric Mean
	26-Jul-22	Geometric Mean
	27-Jul-22	Measures of Variation
	28-Jul-22	Measures of Variation
	29-Jul-22	Standard deviation
	30-Jul-22	Saturday
	31-Jul-22	Sunday

Week	Date	Topics
	1-Aug-22	Standard deviation
	2-Aug-22	Standard deviation
1	3-Aug-22	Mean Deviation
	4-Aug-22	Mean Deviation
	5-Aug-22	Mean Deviation
	6-Aug-22	Saturday
	7-Aug-22	Sunday
	8-Aug-22	Mean Deviation
	9-Aug-22	Muharam
2	10-Aug-22	Quartile Deviation
	11-Aug-22	Quartile Deviation
	12-Aug-22	Quartile Deviation
	13-Aug-22	Quartile Deviation
	14-Aug-22	Sunday

Week	Date	Topics
	15-Aug-22	Independence Day
	16-Aug-22	Skewness
2	17-Aug-22	Skewness
5	18-Aug-22	Skewness
	19-Aug-22	Krishna Jayanthi
	20-Aug-22	Saturday
	21-Aug-22	Sunday
	22-Aug-22	Kurtosis
	23-Aug-22	Assessment Test-1
	24-Aug-22	Assessment Test-1
4	25-Aug-22	Assessment Test-1
	26-Aug-22	Assessment Test-1
	27-Aug-22	Assessment Test-1
	28-Aug-22	Sunday
5	29-Aug-22	Lorenz Curve
	30-Aug-22	Simple Correlation
	31-Aug-22	Vinayakar Chaturthi

Week	Date	Topics
	1-Sep-22	Simple Correlation
1	2-Sep-22	Scatter Diagram
1	3-Sep-22	Karl Pearson's Correlation
	4-Sep-22	Sunday
	5-Sep-22	Karl Pearson's Correlation
	6-Sep-22	Karl Pearson's Correlation
2	7-Sep-22	Spearman's Rank Correlation
2	8-Sep-22	Onam
	9-Sep-22	Spearman's Rank Correlation
	10-Sep-22	Spearman's Rank Correlation
	11-Sep-22	Sunday
3	12-Sep-22	Regression
	13-Sep-22	Regression
	14-Sep-22	Regression
	15-Sep-22	Analysis of Time Series
	16-Sep-22	Analysis of Time Series
	17-Sep-22	Saturday
	18-Sep-22	Sunday

Week	Date	Topics
	19-Sep-22	Causes of variation in Time Series Data - Components of Time series
	20-Sep-22	Causes of variation in Time Series Data - Components of Time series
	21-Sep-22	Causes of variation in Time Series Data - Components of Time series
4	22-Sep-22	Additive and multiplicative models
	23-Sep-22	Determination of Trend by Semi average
	24-Sep-22	Saturday
	25-Sep-22	Sunday
5	26-Sep-22	Determination of Trend by Semi average
	27-Sep-22	Assessment Test – II
	28-Sep-22	Assessment Test – II
	29-Sep-22	Assessment Test – II
	30-Sep-22	Assessment Test – II

Week	Date	Topics	
1	1-Oct-22	Assessment Test – II	
1	2-Oct-22	Sunday- Gandhi Jayanthi	
	3-Oct-22	Moving average method	
	4-Oct-22	Ayutha Pooja	
	5-Oct-22	VijayaDasami	
2	6-Oct-22	Least squares method	
	7-Oct-22	Computation of Seasonal indices by Simple average	
	8-Oct-22	Saturday	
	9-Oct-22	Sunday-Milad-Un-Nabi	
	10-Oct-22	Ratio-to-moving average, Ratio-to Trend and Link relative methods.	
	11-Oct-22	Meaning and Types of Index numbers	
	12-Oct-22	Types of Index numbers	
3	13-Oct-22	Problems in Construction of Index numbers - Methods of Construction of Price and Quantity	
	14-Oct-22	Problems in Construction of Index numbers - Methods of Construction of Price and Quantity	
	15-Oct-22	Tests of adequacy - Errors in Index numbers - Chain Base Index numbers	
	16-Oct-22	Sunday.	

Week	Date	Topics	
	17-Oct-22	Tests of adequacy - Errors in Index numbers - Chain Base Index numbers	
	18-Oct-22	Base shifting - splicing – deflating	
	19-Oct-22	Consumer Price index and its uses	
4	20-Oct-22	Statistical Quality Control	
	21-Oct-22	Collection and Tabulation of Statistical Data	
	22-Oct-22	Saturday	
	23-Oct-22	Sunday	
	24-Oct-22	Deepavali	
	25-Oct-22	Collection and Tabulation of Statistical Data	
	26-Oct-22	Presentation of Statistical Data - Graphs and Diagrams	
5	27-Oct-22	Presentation of Statistical Data - Graphs and Diagrams	
	28-Oct-22	Revision	
	29-Oct-22	Revision	
	30-Oct-22	Sunday	
6	31-Oct-22	Revision	

Week	Date	Topics
	1-Nov-22	Revision
	2-Nov-22	Revision
1	3-Nov-22	Revision
I	4-Nov-22	Revision
	5-Nov-22	Revision
	6-Nov-22	Sunday
2	7-Nov-22	Model Examination
	8-Nov-22	Model Examination
	9-Nov-22	Model Examination
	10-Nov-22	Model Examination
	11-Nov-22	Model Examination
	12-Nov-22	Saturday
	13-Nov-22	Sunday

Week	Date	Topics
3	14-Nov-22	Revision
	15-Nov-22	Revision
	16-Nov-22	Revision
	17-Nov-22	Revision
	18-Nov-22	Revision
	19-Nov-22	Revision
	20-Nov-22	Sunday
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- 1. To inculcate the scope and functions of statistics.
- 2. To introduce various types of statistical data.
- 3. To acquaint with various statistical methods.

Course Outcomes : Upon completion of this course students will have:

- 1. The knowledge of various types of statistical data.
- 2. The applications of statistics in various fields.
- 3. Various types of statistical methods and its calculation.

Books for reference:

- 1. Dhingra IC & MP Gupta, Lectures In Business Statistics, Sultan chand and Sons, New Delhi 2009
- Gupta SP and Archana Agarwal, Business Statistics (Statistical Methods) Sultan chand and Sons, New Delhi, 9th Edition 2013.
- 3. Gupta SC, Fundamentals of Statistics, Himalaya Publishing House.
- Richard Levin and David Rubin, Statistics for Management, Prentice Hall Of India, New Delhi, 2011, 7th Edition.
- 5. Sharma J K,Fundamentals of Business Statistics, Second Edition, Vikas Publishing House Private Limited, 2013.
- 6. Siegel, Andrew, Practical Business Statistics, Irwin Mcgraw Hill International 4th Edition.
- Rajagopalan SP and Sattanathan R B Business Statistics and Operations Research, Vijay Nicole Imprint Private Limited, Chennai

1.ClassRoom/Lab Teaching	~
2. Online Resources	~
3. Slides	~
4. Expert Lecture	
5. Group Discussion	-
6. Seminar	~
7. Case Study	

Janthal + Subject in charge

VIQAC Coordinator Mr. SHIBI MATHAI, IQAC Coordinator IQAC Coordinator St Thomas College of Arts and Science Koyambedu, Chennai - 600 107.

9. Janthat 7 Head of the Department

Principal Principal St. Thomas College of Arts and Science # 140/6, St. Thomas Nagar, New Colony KOYEMBEDU, CHENNAI - 600 107





Lesson Plan for the Odd Semester 2022-2023

Name of the Assistant Professor: Dr. S. Santhakumar Class and Section: II B.Com., (BM) Subject: Business Statistics Department: Mathematics Shift : II Sub Code : CZ33A

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	18-Jul-22	Measures of Central Tendency
	19-Jul-22	Arithmetic Mean
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	22-Jul-22	Mode
	23-Jul-22	Harmonic Mean
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	26-Jul-22	Geometric Mean
	27-Jul-22	Measures of Variation
	28-Jul-22	Measures of Variation
	29-Jul-22	Standard deviation
	30-Jul-22	Saturday
	31-Jul-22	Sunday

Week	Date	Topics
	1-Aug-22	Standard deviation
	2-Aug-22	Standard deviation
1	3-Aug-22	Mean Deviation
	4-Aug-22	Mean Deviation
	5-Aug-22	Mean Deviation
	6-Aug-22	Saturday
	7-Aug-22	Sunday
2	8-Aug-22	Mean Deviation
	9-Aug-22	Muharam
	10-Aug-22	Quartile Deviation
	11-Aug-22	Quartile Deviation
	12-Aug-22	Quartile Deviation
	13-Aug-22	Quartile Deviation
	14-Aug-22	Sunday

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	15-Aug-22	Independence Day
	16-Aug-22	Skewness
2	17-Aug-22	Skewness
5	18-Aug-22	Skewness
	19-Aug-22	Krishna Jayanthi
	20-Aug-22	Saturday
	21-Aug-22	Sunday
	22-Aug-22	Kurtosis
	23-Aug-22	Assessment Test-1
	24-Aug-22	Assessment Test-1
4	25-Aug-22	Assessment Test-1
	26-Aug-22	Assessment Test-1
	27-Aug-22	Assessment Test-1
	28-Aug-22	Sunday
5	29-Aug-22	Lorenz Curve
	30-Aug-22	Simple Correlation
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Week	Date	Topics
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1	3-Sep-22	Karl Pearson's Correlation
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4	22-Sep-22	Additive and multiplicative models
	23-Sep-22	Determination of Trend by Semi average
	24-Sep-22	Saturday
	25-Sep-22	Sunday
5	26-Sep-22	Determination of Trend by Semi average
	27-Sep-22	Assessment Test – II
	28-Sep-22	Assessment Test – II
	29-Sep-22	Assessment Test – II
	30-Sep-22	Assessment Test – II

Week	Date	Topics
	1-Oct-22	Assessment Test – II
1	2-Oct-22	Sunday- Gandhi Jayanthi
	3-Oct-22	Moving average method
	4-Oct-22	Ayutha Pooja
	5-Oct-22	VijayaDasami
2	6-Oct-22	Least squares method
	7-Oct-22	Computation of Seasonal indices by Simple average
	8-Oct-22	Saturday
	9-Oct-22	Sunday-Milad-Un-Nabi
	10-Oct-22	Ratio-to-moving average, Ratio-to Trend and Link relative methods.
	11-Oct-22	Meaning and Types of Index numbers
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	22-Oct-22	Saturday
	23-Oct-22	Sunday
	24-Oct-22	Deepavali
	25-Oct-22	Collection and Tabulation of Statistical Data
	26-Oct-22	Presentation of Statistical Data - Graphs and Diagrams
5	27-Oct-22	Presentation of Statistical Data - Graphs and Diagrams
	28-Oct-22	Revision
	29-Oct-22	Revision
	30-Oct-22	Sunday
6	31-Oct-22	Revision

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	1-Nov-22	Revision
	2-Nov-22	Revision
1	3-Nov-22	Revision
I	4-Nov-22	Revision
	5-Nov-22	Revision
	6-Nov-22	Sunday
2	7-Nov-22	Model Examination
	8-Nov-22	Model Examination
	9-Nov-22	Model Examination
	10-Nov-22	Model Examination
	11-Nov-22	Model Examination
	12-Nov-22	Saturday
	13-Nov-22	Sunday

Week	Date	Topics
3	14-Nov-22	Revision
	15-Nov-22	Revision
	16-Nov-22	Revision
	17-Nov-22	Revision
	18-Nov-22	Revision
	19-Nov-22	Revision
	20-Nov-22	Sunday
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1.ClassRoom/Lab Teaching 🗸		
2. Online Resources	~	
3. Slides	~	
4. Expert Lecture		
5. Group Discussion	-	
6. Seminar	~	
7. Case Study		

Janthal 7 Subject in charge

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9. Janthat 7 Head of the Department

Principal Principal St. Thomas College of Arts and Science # 140/6, St. Thomas Nagar, New Colony KOYEMBEDU, CHENNAI - 600 107





Lesson Plan for the Odd Semester 2022-2023

Name of the Assistant Professor: Dr. S. Santhakumar, Dr. M. Madhan,
Class and Section: I B.C.ADepartment : Mathematics
Shift : II
Subject: Mathematics - ISubject: Mathematics - ISub Code : SM3AA

Week	Date	Topics
	18-Jul-22	
	19-Jul-22	
	20-Jul-22	
1	21-Jul-22	
	22-Jul-22	
	23-Jul-22	
	24-Jul-22	Sunday
	25-Jul-22	
	26-Jul-22	
2	27-Jul-22	
	28-Jul-22	
	29-Jul-22	
	30-Jul-22	
	31-Jul-22	Sunday

Week	Date	Topics
	1-Aug-22	
	2-Aug-22	
1	3-Aug-22	
T	4-Aug-22	
	5-Aug-22	
	6-Aug-22	
	7-Aug-22	Sunday
2	8-Aug-22	
	9-Aug-22	Muharam
	10-Aug-22	
	11-Aug-22	
	12-Aug-22	
	13-Aug-22	Summation of series - simple problems
	14-Aug-22	Sunday
	15-Aug-22	Independence Day

	16-Aug-22	Summation of series - simple problems.
	17-Aug-22	Summation of series - simple problems.
	18-Aug-22	Operators E , Δ , ∇ , difference tables
3	19-Aug-22	Krishna Jayanthi
	20-Aug-22	Difference tables
	21-Aug-22	Sunday
	22-Aug-22	Newton-Raphson method
	23-Aug-22	Newton-Raphson method
	24-Aug-22	Newton's forward interpolation formulae for equal intervals
4	25-Aug-22	Newton's forward interpolation formulae for equal intervals
	26-Aug-22	Newton's backward interpolation formulae for equal intervals
	27-Aug-22	Newton's backward interpolation formulae for equal intervals
	28-Aug-22	Sunday
5	29-Aug-22	Assessment Test - I
	30-Aug-22	Assessment Test - I
	31-Aug-22	Vinayakar Chaturthi

Week	Date	Topics
	1-Sep-22	Assessment Test - I
1	2-Sep-22	Assessment Test - I
1	3-Sep-22	Assessment Test - I
	4-Sep-22	Sunday
	5-Sep-22	Teacher's Day
	6-Sep-22	Lagrange's interpolation formula
	7-Sep-22	Symmetric, Skew-Symmetric matrices
2	8-Sep-22	Onam
	9-Sep-22	Orthogonal, Hermetian, Skew-Hermetian and Unitary matrices.
	10-Sep-22	Eigen values and Eigen-vectors
	11-Sep-22	Sunday
	12-Sep-22	Eigen values and Eigen-vectors
3	13-Sep-22	Eigen values and Eigen-vectors
	14-Sep-22	Cayley-Hamilton theorem verification
	15-Sep-22	Computation of inverse of matrix using Cayley - Hamilton theorem.
	16-Sep-22	Computation of inverse of matrix using Cayley - Hamilton theorem.

	17-Sep-22	Polynomial equations with real coefficients
	18-Sep-22	Sunday
	19-Sep-22	Irrational roots
	20-Sep-22	Complex roots
	21-Sep-22	Symmetric functions of roots
5	22-Sep-22	Transformation of equation by increasing or decreasing roots by a constant
	23-Sep-22	Reciprocal equation-simple problems
	24-Sep-22	Expansions of $sin(n\theta)$
	25-Sep-22	Sunday
6	26-Sep-22	Expansions of cos(nθ)
	27-Sep-22	Assessment Test - II
	28-Sep-22	Assessment Test - II
	29-Sep-22	Assessment Test - II
	30-Sep-22	Assessment Test - II

Week	Date	Topics	
	1-Oct-22	Assessment Test - II	
1	2-Oct-22	Sunday- Gandhi Jayanthi	
	3-Oct-22	Expansions of $sin^n \theta$	
	4-Oct-22	Ayutha Pooja	
	5-Oct-22	Vijaya Dasami	
2	6-Oct-22	Expansions of $\cos^n \theta$	
	7-Oct-22	Expansions of $tan^n \theta$	
	8-Oct-22	Expansions of $\sin\theta$, $\cos\theta$ and $\tan\theta$	
	9-Oct-22	Sunday-Milad-Un-Nabi	
	10-Oct-22	Hyperbolic and inverse hyperbolic functions	
	11-Oct-22	Successive differentiation, n^{th} derivatives	
	12-Oct-22	Successive differentiation, n^{th} derivatives	
3	13-Oct-22	Successive differentiation, n^{th} derivatives	
	14-Oct-22	Leibnitz theorem	
	15-Oct-22	Leibnitz theorem	
	16-Oct-22	Sunday.	
4	17-Oct-22	Jacobians	

	18-Oct-22	Jacobians
	19-Oct-22	Curature and radius of curvature in Cartesian co-ordinates
	20-Oct-22	Cuvature and radius of curvature in Cartesian co-ordinates
	21-Oct-22	Curvature and radius of curvature in Cartesian co-ordinates
	22-Oct-22	Maxima and minima of functions of two variables
	23-Oct-22	Sunday.
	24-Oct-22	Deepavali
	25-Oct-22	Maxima and minima of functions of two variables
5	26-Oct-22	Maxima and minima of functions of two variables
	27-Oct-22	Maxima and minima of functions of two variables
	28-Oct-22	Revision
	29-Oct-22	Revision
	30-Oct-22	Sunday
6	31-Oct-22	Revision

Week	Date	Topics
	1-Nov-22	Revision
	2-Nov -22	Revision
1	3-Nov-22	Revision
	4-Nov-22	Revision
	5-Nov-22	Revision
	6-Nov-22	Sunday
2	7-Nov-22	Model Examination
	8-Nov-22	Model Examination
	9-Nov-22	Model Examination
	10-Nov-22	Model Examination
	11-Nov-22	Model Examination
	12-Nov-22	Revision
	13-Nov-22	Sunday

- **1.** To impart knowledge on Algebra, Theory of equations.
- 2. To educate on generalization of series and finding solutions of algebraic equations.
- **3.** To inculcate more insights on Matrices, Trigonometry.
- 4. To teach the nth derivative techniques and its applications.
- 5. To impart about maxima and minima and its applications.

Course Outcomes: Upon completion of this course students will have:

- 1. Knowledge about basic concepts of Algebra, Theory of Equations, Matrices.
- **2.** Know more about Trigonometry and Calculus.
- **3.** Insight on differentiation and various methods of differentiation.
- 4. Knowledge about solving algebraic equations.
- **3.** Learnt the application of mathematics in computer science.

1.ClassRoom/Lab Teaching		
2. Online Resources	~	
3. Slides	~	
4. Expert Lecture		
5. Group Discussion	-	
6. Seminar	~	
7. Case Study		

Janthal 7 Subject in charge

VIQAC Coordinator Mr. SHIBI MATHAI, IQAC Coordinator IQAC Coordinator St Thomas College of Arts and Science Koyambedu, Chennai - 600 107.

9. Janthat 7 Head of the Department

Principal Principal St. Thomas College of Arts and Science # 140/6, St. Thomas Nagar, New Colony KOYEMBEDU, CHENNAI - 600 107





Lesson Plan for the Odd Semester 2022-2023

Name of	the Assist	tant Professo	r:	Dr.K.SIVASELVAN
Class and	Section		:	B.C.A
Subject:	RESOUR	CE MANAGEN	/IE	INT TECHNIQUE

Department : MATHEMATICS Shift : II Sub Code :

Week	Date	Topics		
	18-Jul-22	Basics of Operations Research		
	19-Jul-22	Linear programming: Formulations		
	20-Jul-22	Linear programming: Formulations		
1	21-Jul-22	Graphical solution (of 2 variables)		
	22-Jul-22	Graphical solution (of 2 variables)		
	23-Jul-22	Canonical and standard terms of Linear programming problem		
	24-Jul-22	Sunday		
	25-Jul-22	Simplex method		
	26-Jul-22	Simplex method		
	27-Jul-22	Simplex method		
2	28-Jul-22	Simplex method		
	29-Jul-22	Simplex method		
	30-Jul-22	Simplex method		
	31-Jul-22	Sunday		

Week	Date	Topics
	1-Aug-22	Charnes method of penalties
	2-Aug-22	Charnes method of penalties
1	3-Aug-22	Charnes method of penalties
	4-Aug-22	Charnes method of penalties
	5-Aug-22	Charnes method of penalties
	6-Aug-22	Charnes method of penalties
	7-Aug-22	Sunday
2	8-Aug-22	Two phase simplex method
	9-Aug-22	Muharam

	10-Aug-22	Two phase simplex method
	11-Aug-22	Two phase simplex method
	12-Aug-22	Two phase simplex method
	13-Aug-22	Two phase simplex method
	14-Aug-22	Sunday
	15-Aug-22	Independence Day
	16-Aug-22	Concept of Duality
	17-Aug-22	Properties of duality
2	18-Aug-22	Dual simplex method
3	19-Aug-22	Krishna Jayanthi
	20-Aug-22	Dual simplex method
	21-Aug-22	Sunday
	22-Aug-22	Dual simplex method
	23-Aug-22	Assessment Test - I
	24-Aug-22	Assessment Test - I
4	25-Aug-22	Assessment Test - I
	26-Aug-22	Assessment Test - I
	27-Aug-22	Assessment Test - I
	28-Aug-22	Sunday
	29-Aug-22	Transportation model: Definition
5	30-Aug-22	Formulation and solution of transportation models
	31-Aug-22	Vinayakar Chaturthi

Week	Date	Topics
1	1-Sep-22	North west corner rule
	2-Sep-22	Least cost method
	3-Sep-22	Vogel's approximation methods

	4-Sep-22	Sunday
	5-Sep-22	Teacher's Day
	6-Sep-22	Vogel's approximation methods
	7-Sep-22	Vogel's approximation methods
2	8-Sep-22	Assignment model: Definition
	9-Sep-22	Formulation and solution of Assignment model
	10-Sep-22	Formulation and solution of Assignment model
	11-Sep-22	Sunday
	12-Sep-22	Variations of Assignment problem
	13-Sep-22	Variations of Assignment problem
	14-Sep-22	Sequencing problem
3	15-Sep-22	Sequencing problem
	16-Sep-22	Processing each of n jobs through m machines
	17-Sep-22	Processing n jobs through 2 machines
	18-Sep-22	Sunday
	19-Sep-22	Travelling salesman problem
	20-Sep-22	Travelling salesman problem
	21-Sep-22	Game Theory: Characteristics of games
5	22-Sep-22	Maximin, Minimax criteria of optimality
	23-Sep-22	Dominance property
	24-Sep-22	Graphical method of solution of solving 2 x 2 games
	25-Sep-22	Sunday
	26-Sep-22	Graphical method of solution of solving 2 x 2 games
6	27-Sep-22	Assessment Test - II
	28-Sep-22	Assessment Test - II
	29-Sep-22	Assessment Test - II
	30-Sep-22	Assessment Test - II

Week	Date	Topics	
1	1-Oct-22	Assessment Test - II	
	2-Oct-22	Sunday- Gandhi Jayanthi	
	3-Oct-22	PERT - CPM: Networks	
	4-Oct-22	Ayutha Pooja	
	5-Oct-22	Vijaya Dasami	
2	6-Oct-22	PERT - CPM: Networks	
	7-Oct-22	PERT - CPM: Networks	
	8-Oct-22	Fulkerson's Rule	
	9-Oct-22	Sunday-Milad-Un-Nabi	
	10-Oct-22	Measure of Activity	
	11-Oct-22	PERT computation	
	12-Oct-22	PERT computation	
3	13-Oct-22	PERT computation	
	14-Oct-22	CPM computation	
	15-Oct-22	CPM computation	
	16-Oct-22	Sunday.	
	17-Oct-22	CPM computation	
	18-Oct-22	CPM computation	
	19-Oct-22	Various methods of obtaining random numbers for use in computer simulation	
4	20-Oct-22	Additive Type of Congruence Random Number Generators	
	21-Oct-22	Additive Type of Congruence Random Number Generators	
	22-Oct-22	Multiplicative Type of Congruence Random Number Generators	
	23-Oct-22	Sunday.	
5	24-Oct-22	Deepavali	
5	25-Oct-22	Mixed Type of Congruence Random Number Generators	

	26-Oct-22	Monte Carlo method of simulation
	27-Oct-22	Monte Carlo method of simulation
	28-Oct-22	Monte Carlo method of simulation - its advantages and disadvantages
	29-Oct-22	Monte Carlo method of simulation
	30-Oct-22	Sunday
6	31-Oct-22	Monte Carlo method of simulation - its advantages and disadvantages

Week	Date	Topics
	1-Nov-22	Revision
	2-Nov -22	Revision
1	3-Nov-22	Revision
	4-Nov-22	Revision
	5-Nov-22	Revision
	6-Nov-22	Sunday
2	7-Nov-22	Model Examination
	8-Nov-22	Model Examination
	9-Nov-22	Model Examination
	10-Nov-22	Model Examination
	11-Nov-22	Model Examination
	12-Nov-22	Revision
	13-Nov-22	Sunday

- **1.** This course introduces the concepts of Resource Management Technique.
- 2. To learn the basic concepts, models and statements of Operation Research theory.
- **3.** To learn the application of Operation Research in business decision making.

Course Outcomes:Upon completion of this course students will have:

- **1.** To make use of simplex method to solve optimization problems.
- 2. To utilize PERT and CPM in project management.
- **3.** To apply Operation Research concepts in decision making.

References:

1. Hamdy A. Taha, "Operation Research - An Introduction", Prentice Hall of India, Pvt. Ltd. New Delhi 1996, 5 th Edition

2. Ackoff R.L. and Sasieni M. W, "Fundamentals of Operations Research", John Wiley and sons New York 1968.

3. Charnes A. Cooper W. and Hendersen A., "Introduction to Linear Programming", Wiley and Sons New York 1953.

4. Srinath L.S, "PERT and CPM principles and applications", Affiliated East West Press Pvt. Ltd. New York 1973.

WEB REFERENCES: http://ocw.mit.in

http://ebooks.lpude.in.operationsresearch

1.ClassRoom/Lab Teaching	~
2.Online Resources	~
3. Slides	~
4.Expert Lecture	-
5.Group Discussion	-
6.Seminar	~
7.Case Study	-

9 Subject in charge

IQAC Coordinator

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anth Head of the Department

Principal Principal St. Thomas College of Arts and Science # 140/6, St. Thomas Nagar, New Colony,

KOYEMBEDU, CHENNAI - 600 107





Lesson Plan for the Odd Semester 2022-2023

	Name of the Assistant Professor: Dr.K.SIVASELVAN			Department	: MATHEMATICS
	Class and Section : BBA		Shift	: 11	
Subject: BUSINESS MATHEMATICS AND STATISTICS			S MATHEMATICS AND STATISTICS	Sub Code	: BB33A
Week		Date	Topics		

	18-Jul-22	Introduction – meaning and definition of statistics, Methods of collection: Complete enumeration, Definition of Statistics, Limitations of Statistics Scope of Statistics Functions of Statistics,
	19-Jul-22	Statistics Sample Survey, Data Collection -Methods of Collecting Primary Data, Methods of Collecting Secondary Data,
	20-Jul-22	Diagrammatic And Graphical Representation, Rules for preparing Diagrams, Types of Diagrams
1	21-Jul-22	Graphs of Frequency Distribution, Problems under Two-dimensional diagram, Problems under Lorentz Curve,
	22-Jul-22	Problems under measures of Central Tendency-Arithmetic mean
	23-Jul-22	Problems under measures of Central Tendency-Geometric mean
	24-Jul-22	Sunday
2	25-Jul-22	Problems under measures of Central Tendency-Harmonic mean
	26-Jul-22	Problems under measures of Central Tendency-Median
	27-Jul-22	Problems under measures of Central Tendency-Mode
	28-Jul-22	Problems under measures of Central Tendency-Mode
	29-Jul-22	Measures Of Dispersion-Methods of measuring dispersion
	30-Jul-22	Range- Quartile deviation (or) Semi inter-quartile deviation
	31-Jul-22	Sunday

Week	Date	Topics
	1-Aug-22	Problems under Mean deviation about mean
	2-Aug-22	Problems under Mean deviation about median, mode
1	3-Aug-22	Problems under Calculation of Standard Deviation, Coefficient of variation
1	4-Aug-22	Skewness, Positive and Negative Skewness
	5-Aug-22	Problems under Karl Pearson's coefficient of Skewness
	6-Aug-22	Problems under Bowley's coefficient of Skewness
	7-Aug-22	Sunday
2	8-Aug-22	Problems under Calculation of co-efficient of correlation
	9-Aug-22	Muharam

	10-Aug-22	Problems under Calculation of co-efficient of correlation
	11-Aug-22	Problems under Calculation of co-efficient of rank correlation
	12-Aug-22	Introduction regression equation, Problems under Regression Equation of Y on X
	13-Aug-22	Problems under Regression Equation of X on Y
	14-Aug-22	Sunday
	15-Aug-22	Independence Day
	16-Aug-22	Introduction Time series, Components of Time Series, Measurement of Trend Graphic Method
	17-Aug-22	Problems under Measurement of Trend Semi-average method
2	18-Aug-22	Problems under Measurement of Trend Moving average method (Even Data and Odd data)
3	19-Aug-22	Krishna Jayanthi
	20-Aug-22	Problems under Measurement of Trend Method of least squares
	21-Aug-22	Sunday
	22-Aug-22	Problems under Measurement of Trend Method of least squares
	23-Aug-22	Assessment Test - I
	24-Aug-22	Assessment Test - I
4	25-Aug-22	Assessment Test - I
	26-Aug-22	Assessment Test - I
	27-Aug-22	Assessment Test - I
	28-Aug-22	Sunday
5	29-Aug-22	Problems under Measurement of Seasonal Variation -Method of simple averages
	30-Aug-22	Problems under Measurement of Seasonal Variation -Ratio to moving average method
	31-Aug-22	Vinayakar Chaturthi

Week	Date	Topics
1	1-Sep-22	Introduction -Method of Constructing Index Numbers,
	2-Sep-22	Problems under Method of Constructing Index Numbers
	3-Sep-22	Problems under Simple Average of Price Relatives method

	4-Sep-22	Sunday
	5-Sep-22	Teacher's Day
	6-Sep-22	Problems under Weighted Average of Relatives
	7-Sep-22	Problems under Weighted Average of Relatives
2	8-Sep-22	Onam
	9-Sep-22	Problems under Paasche's Method
	10-Sep-22	Problems under Paasche's Method
	11-Sep-22	Sunday
	12-Sep-22	Problems under Paasche's Method
	13-Sep-22	Problems under Kelly's Method
	14-Sep-22	Problems under Kelly's Method
3	15-Sep-22	Problems under Fisher's Ideal Index
	16-Sep-22	Problems under Fisher's Ideal Index
	17-Sep-22	Tests of Adequacy of Index Number- Unit test.
	18-Sep-22	Sunday
	19-Sep-22	Problems under Time Reversal Test
	20-Sep-22	Problems under - Factor Reversal test
	21-Sep-22	Problems under Aggregate Expenditure Method or Aggregative method
5	22-Sep-22	Problems under Family Budget Method or the method of weighted Relatives
	23-Sep-22	Problems under Family Budget Method or the method of weighted Relatives
	24-Sep-22	Calculate Fisher's ideal Index from the given data and prove that it satisfies both the time reversal and factor reversal tests
	25-Sep-22	Sunday
6	26-Sep-22	Calculate Fisher's ideal Index from the given data and prove that it satisfies both the time reversal and factor reversal tests
	27-Sep-22	Assessment Test - II
	28-Sep-22	Assessment Test - II
	29-Sep-22	Assessment Test - II
	30-Sep-22	Assessment Test - II

Week	Date	Topics
1	1-Oct-22	Assessment Test - II
	2-Oct-22	Sunday- Gandhi Jayanthi
	3-Oct-22	Problems under Conversion of Chain Index to Fixed Index
	4-Oct-22	Ayutha Pooja
	5-Oct-22	Vijaya Dasami
2	6-Oct-22	Introduction Statistical Quality Control
	7-Oct-22	Statistical Quality Control-Problems under Mean chart
	8-Oct-22	Statistical Quality Control- Problems under Mean chart
	9-Oct-22	Sunday-Milad-Un-Nabi
	10-Oct-22	Statistical Quality Control- Problems under Range chart
	11-Oct-22	Statistical Quality Control- Problems under Range chart
	12-Oct-22	Statistical Quality Control- Problems under 'n' chart
3	13-Oct-22	Statistical Quality Control- Problems under 'n' chart
	14-Oct-22	Statistical Quality Control- Problems under 'np' chart
	15-Oct-22	Statistical Quality Control- Problems under 'np' chart
	16-Oct-22	Sunday.
	17-Oct-22	Sampling Distribution introduction
	18-Oct-22	Characteristics of a Good Sample
	19-Oct-22	Objectives of samples
4	20-Oct-22	Methods of Sampling Probability or Random Sampling Classification of Probability sampling Unrestricted (Or) Simple Random Sampling
	21-Oct-22	Random Number Method, Restricted Random Sampling
	22-Oct-22	Stratified random Sampling, Systematical Sampling, . Multi stage sampling
	23-Oct-22	Sunday.
	24-Oct-22	Deepavali
5	25-Oct-22	Statistical Investigation - Census method- Sample Method
	26-Oct-22	Essentials of sampling

	27-Oct-22	Non Probability or Non Random sampling
	28-Oct-22	Convenience sampling ,Purposive or Judgment sampling
	29-Oct-22	Quota sampling
	30-Oct-22	Sunday
6	31-Oct-22	Revision

Week	Date	Topics
	1-Nov-22	Revision
	2-Nov -22	Revision
1	3-Nov-22	Revision
	4-Nov-22	Revision
	5-Nov-22	Revision
	6-Nov-22	Sunday
	7-Nov-22	Model Examination
	8-Nov-22	Model Examination
2	9-Nov-22	Model Examination
	10-Nov-22	Model Examination
	11-Nov-22	Model Examination
	12-Nov-22	Revision
	13-Nov-22	Sunday

- **1.** Discussed the methods of collecting data, explain the functions, scope and limitation of statistics.
- Statistical analysis of univariate by mean, median and mode are also merits and demerits discussed.
- **3.** Correlation is a statistical tool used to study the relationship between two variables.
- **4.** Explained the method of constructing index numbers and convert chain index into fixed index numbers.
- 5. Students getting knowledge of the Sampling procedures

Course Outcomes:Upon completion of this course students will have:

- **1.** Know the uses of statistics in society
- 2. Organize, manage and present data
- **3.** Analyze the statistical data graphically using frequency distribution and cumulative frequency distribution
- **4**. Students able to apply trend analysis
- **5.** To tests of adequacy of index numbers

Reference Books:

- 1. P.R. Vittal, Business Mathematics and Statistics, Margham Publications , Chennai, 2004.
- 2. S.P.Gupta, Statistical Methods, Sultan Chand & Sons, NewDelhi, 2007.
- 3. S.P. Gupta, Elements of Business Statistics, Sultan Chand & Sons, NewDelhi, 2007.
- 4. J.K.Sharma, Business Statistics, Pearson Education, New Delhi,2007.
- 5. Business Statistics & OR Dr.S.P.Rajagopalan, Tata McGraw Hill.

1.ClassRoom/Lab Teaching	~
2.Online Resources	~
3. Slides	~
4.Expert Lecture	-
5.Group Discussion	-
6.Seminar	~
7.Case Study	-

9 Subject in charge

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KOYEMBEDU, CHENNAI - 600 107





Lesson Plan for the Odd Semester 2022-2023

Name of the Assistant Professor: Dr. K. Sivaselvan, Dr. M. Madhan,Department : MathematicsClass and Section: I B.ScShift: IISubject: Mathematics - ISub Code: SM3AA

Week	Date	Topics
	18-Jul-22	
	19-Jul-22	
	20-Jul-22	
1	21-Jul-22	
	22-Jul-22	
	23-Jul-22	
	24-Jul-22	Sunday
2	25-Jul-22	
	26-Jul-22	
	27-Jul-22	
	28-Jul-22	
	29-Jul-22	
	30-Jul-22	
	31-Jul-22	Sunday

Week	Date	Topics
	1-Aug-22	
	2-Aug-22	
1	3-Aug-22	
T	4-Aug-22	
	5-Aug-22	
	6-Aug-22	
	7-Aug-22	Sunday
2	8-Aug-22	
	9-Aug-22	Muharam
	10-Aug-22	
	11-Aug-22	
	12-Aug-22	
	13-Aug-22	Summation of series - simple problems
	14-Aug-22	Sunday
	15-Aug-22	Independence Day

	16-Aug-22	Summation of series - simple problems.
	17-Aug-22	Summation of series - simple problems.
	18-Aug-22	Operators E , Δ , ∇ , difference tables
3	19-Aug-22	Krishna Jayanthi
	20-Aug-22	Difference tables
	21-Aug-22	Sunday
4	22-Aug-22	Newton-Raphson method
	23-Aug-22	Newton-Raphson method
	24-Aug-22	Newton's forward interpolation formulae for equal intervals
	25-Aug-22	Newton's forward interpolation formulae for equal intervals
	26-Aug-22	Newton's backward interpolation formulae for equal intervals
	27-Aug-22	Newton's backward interpolation formulae for equal intervals
	28-Aug-22	Sunday
5	29-Aug-22	Assessment Test - I
	30-Aug-22	Assessment Test - I
	31-Aug-22	Vinayakar Chaturthi

Week	Date	Topics
	1-Sep-22	Assessment Test - I
1	2-Sep-22	Assessment Test - I
Ţ	3-Sep-22	Assessment Test - I
	4-Sep-22	Sunday
	5-Sep-22	Teacher's Day
	6-Sep-22	Lagrange's interpolation formula
	7-Sep-22	Symmetric, Skew-Symmetric matrices
2	8-Sep-22	Onam
	9-Sep-22	Orthogonal, Hermetian, Skew-Hermetian and Unitary matrices.
	10-Sep-22	Eigen values and Eigen-vectors
	11-Sep-22	Sunday
3	12-Sep-22	Eigen values and Eigen-vectors
	13-Sep-22	Eigen values and Eigen-vectors
	14-Sep-22	Cayley-Hamilton theorem verification
	15-Sep-22	Computation of inverse of matrix using Cayley - Hamilton theorem.
	16-Sep-22	Computation of inverse of matrix using Cayley - Hamilton theorem.

	17-Sep-22	Polynomial equations with real coefficients
	18-Sep-22	Sunday
	19-Sep-22	Irrational roots
	20-Sep-22	Complex roots
	21-Sep-22	Symmetric functions of roots
5	22-Sep-22	Transformation of equation by increasing or decreasing roots by a constant
	23-Sep-22	Reciprocal equation-simple problems
	24-Sep-22	Expansions of $sin(n\theta)$
	25-Sep-22	Sunday
6	26-Sep-22	Expansions of cos(nθ)
	27-Sep-22	Assessment Test - II
	28-Sep-22	Assessment Test - II
	29-Sep-22	Assessment Test - II
	30-Sep-22	Assessment Test - II

Week	Date	Topics
	1-Oct-22	Assessment Test - II
1	2-Oct-22	Sunday- Gandhi Jayanthi
	3-Oct-22	Expansions of $sin^n\theta$
	4-Oct-22	Ayutha Pooja
	5-Oct-22	Vijaya Dasami
2	6-Oct-22	Expansions of $\cos^n \theta$
	7-Oct-22	Expansions of $tan^n \theta$
	8-Oct-22	Expansions of $\sin\theta$, $\cos\theta$ and $\tan\theta$
	9-Oct-22	Sunday-Milad-Un-Nabi
	10-Oct-22	Hyperbolic and inverse hyperbolic functions
3	11-Oct-22	Successive differentiation, n^{th} derivatives
	12-Oct-22	Successive differentiation, n^{th} derivatives
	13-Oct-22	Successive differentiation, n^{th} derivatives
	14-Oct-22	Leibnitz theorem
	15-Oct-22	Leibnitz theorem
	16-Oct-22	Sunday.
4	17-Oct-22	Jacobians

	18-Oct-22	Jacobians
	19-Oct-22	Curature and radius of curvature in Cartesian co-ordinates
	20-Oct-22	Cuvature and radius of curvature in Cartesian co-ordinates
	21-Oct-22	Curvature and radius of curvature in Cartesian co-ordinates
	22-Oct-22	Maxima and minima of functions of two variables
	23-Oct-22	Sunday.
5	24-Oct-22	Deepavali
	25-Oct-22	Maxima and minima of functions of two variables
	26-Oct-22	Maxima and minima of functions of two variables
	27-Oct-22	Maxima and minima of functions of two variables
	28-Oct-22	Revision
	29-Oct-22	Revision
	30-Oct-22	Sunday
6	31-Oct-22	Revision

Week	Date	Topics
	1-Nov-22	Revision
	2-Nov -22	Revision
1	3-Nov-22	Revision
	4-Nov-22	Revision
	5-Nov-22	Revision
	6-Nov-22	Sunday
	7-Nov-22	Model Examination
2	8-Nov-22	Model Examination
	9-Nov-22	Model Examination
	10-Nov-22	Model Examination
	11-Nov-22	Model Examination
	12-Nov-22	Revision
	13-Nov-22	Sunday

- **1.** To impart knowledge on Algebra, Theory of equations.
- 2. To educate on generalization of series and finding solutions of algebraic equations.
- **3.** To inculcate more insights on Matrices, Trigonometry.
- **4.** To teach the nth derivative techniques and its applications.
- 5. To impart about maxima and minima and its applications.

Course Outcomes: Upon completion of this course students will have:

- 1. Knowledge about basic concepts of Algebra, Theory of Equations, Matrices.
- **2.** Know more about Trigonometry and Calculus.
- **3.** Insight on differentiation and various methods of differentiation.
- 4. Knowledge about solving algebraic equations.
- **3.** Learnt the application of mathematics in computer science.

1.ClassRoom/Lab Teaching	~
2.Online Resources	~
3. Slides	~
4.Expert Lecture	-
5.Group Discussion	-
6.Seminar	~
7.Case Study	-

9 Subject in charge

IQAC Coordinator

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Lesson Plan for the Odd Semester 2022-2023

Name of the Assistant Professor: Dr.M.Madhan Class and Section: II B.Com., (B) Subject: Business Statistics Department: Mathematics Shift : II Sub Code : CZ33A

Week	Date	Topics
	18-Jul-22	Measures of Central Tendency
	19-Jul-22	Arithmetic Mean
	20-Jul-22	Arithmetic Mean
1	21-Jul-22	Median
	22-Jul-22	Mode
	23-Jul-22	Harmonic Mean
	24-Jul-22	Sunday
2	25-Jul-22	Geometric Mean
	26-Jul-22	Geometric Mean
	27-Jul-22	Measures of Variation
	28-Jul-22	Measures of Variation
	29-Jul-22	Standard deviation
	30-Jul-22	Saturday
	31-Jul-22	Sunday

Week	Date	Topics
	1-Aug-22	Standard deviation
	2-Aug-22	Standard deviation
1	3-Aug-22	Mean Deviation
	4-Aug-22	Mean Deviation
	5-Aug-22	Mean Deviation
	6-Aug-22	Saturday
	7-Aug-22	Sunday
2	8-Aug-22	Mean Deviation
	9-Aug-22	Muharam
	10-Aug-22	Quartile Deviation
	11-Aug-22	Quartile Deviation
	12-Aug-22	Quartile Deviation
	13-Aug-22	Quartile Deviation
	14-Aug-22	Sunday



Week	Date	Topics
	15-Aug-22	Independence Day
	16-Aug-22	Skewness
2	17-Aug-22	Skewness
5	18-Aug-22	Skewness
	19-Aug-22	Krishna Jayanthi
	20-Aug-22	Saturday
	21-Aug-22	Sunday
	22-Aug-22	Kurtosis
	23-Aug-22	Assessment Test-1
	24-Aug-22	Assessment Test-1
4	25-Aug-22	Assessment Test-1
	26-Aug-22	Assessment Test-1
	27-Aug-22	Assessment Test-1
	28-Aug-22	Sunday
5	29-Aug-22	Lorenz Curve
	30-Aug-22	Simple Correlation
	31-Aug-22	Vinayakar Chaturthi

Week	Date	Topics
	1-Sep-22	Simple Correlation
1	2-Sep-22	Scatter Diagram
1	3-Sep-22	Karl Pearson's Correlation
	4-Sep-22	Sunday
	5-Sep-22	Karl Pearson's Correlation
	6-Sep-22	Karl Pearson's Correlation
2	7-Sep-22	Spearman's Rank Correlation
2	8-Sep-22	Onam
	9-Sep-22	Spearman's Rank Correlation
	10-Sep-22	Spearman's Rank Correlation
	11-Sep-22	Sunday
	12-Sep-22	Regression
3	13-Sep-22	Regression
	14-Sep-22	Regression
	15-Sep-22	Analysis of Time Series
	16-Sep-22	Analysis of Time Series
	17-Sep-22	Saturday
	18-Sep-22	Sunday

Week	Date	Topics
	19-Sep-22	Causes of variation in Time Series Data - Components of Time series
	20-Sep-22	Causes of variation in Time Series Data - Components of Time series
	21-Sep-22	Causes of variation in Time Series Data - Components of Time series
4	22-Sep-22	Additive and multiplicative models
	23-Sep-22	Determination of Trend by Semi average
	24-Sep-22	Saturday
	25-Sep-22	Sunday
5	26-Sep-22	Determination of Trend by Semi average
	27-Sep-22	Assessment Test – II
	28-Sep-22	Assessment Test – II
	29-Sep-22	Assessment Test – II
	30-Sep-22	Assessment Test – II

Week	Date	Topics	
	1-Oct-22	Assessment Test – II	
1	2-Oct-22	Sunday- Gandhi Jayanthi	
	3-Oct-22	Moving average method	
	4-Oct-22	Ayutha Pooja	
	5-Oct-22	VijayaDasami	
2	6-Oct-22	Least squares method	
	7-Oct-22	Computation of Seasonal indices by Simple average	
	8-Oct-22	Saturday	
	9-Oct-22	Sunday-Milad-Un-Nabi	
	10-Oct-22	Ratio-to-moving average, Ratio-to Trend and Link relative methods.	
	11-Oct-22	Meaning and Types of Index numbers	
	12-Oct-22	Types of Index numbers	
3	13-Oct-22	Problems in Construction of Index numbers - Methods of Construction of Price and Quantity	
	14-Oct-22	Problems in Construction of Index numbers - Methods of Construction of Price and Quantity	
	15-Oct-22	Tests of adequacy - Errors in Index numbers - Chain Base Index numbers	
	16-Oct-22	Sunday.	

Week	Date	Topics
	17-Oct-22	Tests of adequacy - Errors in Index numbers - Chain Base Index numbers
	18-Oct-22	Base shifting - splicing – deflating
	19-Oct-22	Consumer Price index and its uses
4	20-Oct-22	Statistical Quality Control
	21-Oct-22	Collection and Tabulation of Statistical Data
	22-Oct-22	Saturday
	23-Oct-22	Sunday
	24-Oct-22	Deepavali
	25-Oct-22	Collection and Tabulation of Statistical Data
	26-Oct-22	Presentation of Statistical Data - Graphs and Diagrams
5	27-Oct-22	Presentation of Statistical Data - Graphs and Diagrams
	28-Oct-22	Revision
	29-Oct-22	Revision
	30-Oct-22	Sunday
6	31-Oct-22	Revision

Week	Date	Topics
	1-Nov-22	Revision
	2-Nov-22	Revision
1	3-Nov-22	Revision
1	4-Nov-22	Revision
	5-Nov-22	Revision
	6-Nov-22	Sunday
2	7-Nov-22	Model Examination
	8-Nov-22	Model Examination
	9-Nov-22	Model Examination
	10-Nov-22	Model Examination
	11-Nov-22	Model Examination
	12-Nov-22	Saturday
	13-Nov-22	Sunday

Week	Date	Topics
3	14-Nov-22	Revision
	15-Nov-22	Revision
	16-Nov-22	Revision
	17-Nov-22	Revision
	18-Nov-22	Revision
	19-Nov-22	Revision
	20-Nov-22	Sunday
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- 1. To inculcate the scope and functions of statistics.
- 2. To introduce various types of statistical data.
- 3. To acquaint with various statistical methods.

Course Outcomes : Upon completion of this course students will have:

- 1. The knowledge of various types of statistical data.
- 2. The applications of statistics in various fields.
- 3. Various types of statistical methods and its calculation.

Books for reference:

- 1. Dhingra IC & MP Gupta, Lectures In Business Statistics, Sultan chand and Sons, New Delhi 2009
- Gupta SP and Archana Agarwal, Business Statistics (Statistical Methods) Sultan chand and Sons, New Delhi, 9th Edition 2013.
- 3. Gupta SC, Fundamentals of Statistics, Himalaya Publishing House.
- Richard Levin and David Rubin, Statistics for Management, Prentice Hall Of India, New Delhi, 2011, 7th Edition.
- 5. Sharma J K,Fundamentals of Business Statistics, Second Edition, Vikas Publishing House Private Limited, 2013.
- 6. Siegel, Andrew, Practical Business Statistics, Irwin Mcgraw Hill International 4th Edition.
- Rajagopalan SP and Sattanathan R B Business Statistics and Operations Research, Vijay Nicole Imprint Private Limited, Chennai

1.ClassRoom/Lab Teaching	~
2. Online Resources	~
3. Slides	~
4. Expert Lecture	
5. Group Discussion	~
6. Seminar	~
7. Case Study	

Subject in charge

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Principal

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Lesson Plan for the Odd Semester 2022-2023

Name of the Assistant Professor: Dr.M.Madhan Class and Section: II B.Sc., Computer Science Subject: Allied Statistics – I Department: Mathematics Shift : II Sub Code : SP3AA

Week	Date	Topics
	18-Jul-22	Methods of collection: Complete enumeration, Definition of Statistics, Limitations of Statistics Scope of Statistics Functions of Statistics, Statistics Sample Survey
	19-Jul-22	Data Collection -Methods of Collecting Primary Data, Types of variables
	20-Jul-22	Norminal, ordinal and scale data, Tabulation, Objectives of Tabulation, Principles of Tabulation, Types of Tables- Simple and complex tables, General purpose and special purpose tables
1	21-Jul-22	Problems under Prepare a frequency Table
	22-Jul-22	Problems under Make a frequency distribution with intervals
	23-Jul-22	Problems under Draft a form of tabulation
	24-Jul-22	Sunday
	25-Jul-22	Problems under construction of tables -Univariate frequency table
	26-Jul-22	Problems under construction of tables – Bivariate frequency table
	27-Jul-22	Problems under construction of tables Univariate contingency table
2	28-Jul-22	Problems under construction of tables Bivariate contingency table
	29-Jul-22	UNIT-II Diagrammatic presentation- Rules for preparing Diagrams
	30-Jul-22	Saturday
	31-Jul-22	Sunday

Week	Date	Topics
	1-Aug-22	Types of Diagrams- One- dimensional diagram, Two- dimensional diagram, Three- dimensional diagram
	2-Aug-22	Problems under One- dimensional diagram -Line diagram, Bar diagrams
1	3-Aug-22	Problems under One - dimensional diagram - Multiple Bar diagrams
	4-Aug-22	Problems under One - dimensional diagram- Subdivided Bar diagrams
	5-Aug-22	Problems under Two- dimensional diagram- Percentage-Pie chart
	6-Aug-22	Saturday
	7-Aug-22	Sunday
2	8-Aug-22	Problems under Two- dimensional diagram- comparative Pie chart
	9-Aug-22	Muharam
	10-Aug-22	Graphical representation of a frequency Histogram, Frequency polygon, Frequency curve Ogives or cumulative frequency curve
	11-Aug-22	Problems under frequency Histogram, Frequency polygon
	12-Aug-22	Problems under Frequency curve
	13-Aug-22	Problems under Frequency curve
	14-Aug-22	Sunday



Week	Date	Topics
	15-Aug-22	Independence Day
	16-Aug-22	Problems under Ogives or cumulative frequency curve
2	17-Aug-22	Problems under Ogives or cumulative frequency curve
3	18-Aug-22	Lorenz Curve Procedure for drawing Lorenz curve
	19-Aug-22	Krishna Jayanthi
	20-Aug-22	Saturday
	21-Aug-22	Sunday
	22-Aug-22	Problems under Lorenz Curve
	23-Aug-22	Assessment Test-1
	24-Aug-22	Assessment Test-1
4	25-Aug-22	Assessment Test-1
	26-Aug-22	Assessment Test-1
	27-Aug-22	Assessment Test-1
	28-Aug-22	Sunday
5	29-Aug-22	UNIT-III Analysis of Data- Measures Of Central Tendency- Introduction
	30-Aug-22	Types of Averages- Mean, Median, Mode –Explanation notes
	31-Aug-22	Vinayakar Chaturthi

Week	Date	Topics
	1-Sep-22	Problems under Simple arithmetic average
1	2-Sep-22	Problems under Direct Method
1	3-Sep-22	Problems under Short-cut Method
	4-Sep-22	Sunday
	5-Sep-22	Problems under Short-cut Method
	6-Sep-22	Problems under Step deviation method
2	7-Sep-22	Problems under Step deviation method
2	8-Sep-22	Onam
	9-Sep-22	Problems under Combined Arithmetic Mean
	10-Sep-22	Problems under Calculation of Geometric Mean – Discrete Series
	11-Sep-22	Sunday
	12-Sep-22	Problems under Calculation of Geometric Mean -Continuous Series
3	13-Sep-22	Problems under Calculation of Harmonic Mean-Discrete Series
	14-Sep-22	Problems under Calculation of Harmonic Mean-Continuous Series
	15-Sep-22	Problems under Calculation of Median-Discrete Series
	16-Sep-22	Problems under Calculation of Median- Continuous Series
	17-Sep-22	Saturday
	18-Sep-22	Sunday

Week	Date	Topics	
4	19-Sep-22	Problems under Calculation of Mode - Discrete Series	
	20-Sep-22	Problems under Calculation of Mode - Continuous series	
	21-Sep-22	Merits and demerits of measures of Central Tendency, Characteristic of a Good Average	
	22-Sep-22	UNIT-IV Introduction Measures of dispersion-Methods of studying dispersion	
	23-Sep-22	Range- Problems under Calculation of Range, Coefficient of Range	
	24-Sep-22	Saturday	
	25-Sep-22	Sunday	
5	26-Sep-22	Quartile Deviation- Problems under Calculation Quartile deviation and co-efficient of quartile deviation	
	27-Sep-22	Assessment Test – II	
	28-Sep-22	Assessment Test – II	
	29-Sep-22	Assessment Test – II	
	30-Sep-22	Assessment Test – II	

Week	Date	Topics		
1	1-Oct-22	Assessment Test – II		
	2-Oct-22	Sunday- Gandhi Jayanthi		
2	3-Oct-22	Problems under Calculation Quartile deviation and co-efficient of quartile deviation		
	4-Oct-22	Ayutha Pooja		
	5-Oct-22	VijayaDasami		
	6-Oct-22	Problems under Calculation of Mean deviation about mean		
	7-Oct-22	Problems under Calculation of Mean deviation about mean		
	8-Oct-22	Saturday		
	9-Oct-22	Sunday-Milad-Un-Nabi		
	10-Oct-22	Problems under Calculation of Mean deviation about median		
3	11-Oct-22	Problems under Calculation of Mean deviation about median		
	12-Oct-22	Problems under Calculation of Mean deviation about mode		
	13-Oct-22	Problems under Calculation of Mean deviation about mode		
	14-Oct-22	Problems under Calculation of standard deviation for individual data		
	15-Oct-22	Problems under Calculation of standard deviation for discrete series		
	16-Oct-22	Sunday.		

Week	Date	Topics	
4	17-Oct-22	Problems under Calculation of standard deviation for discrete series	
	18-Oct-22	Problems under Calculation of co-efficient of variation for discrete series.	
	19-Oct-22	Problems under Calculation of co-efficient of variation for continuous series.	
	20-Oct-22	Problems under Calculation of co-efficient of variation for continuous series.	
	21-Oct-22	UNIT-V Introduction Positive and Negative correlation -Analysis of Data (Bivariate)	
	22-Oct-22	Saturday	
	23-Oct-22	Sunday	
5	24-Oct-22	Deepavali	
	25-Oct-22	Linear and Non-linear correlation- Methods Of Studying Correlation	
	26-Oct-22	Problems under Correlation- Scatter plot	
	27-Oct-22	Problems under Karle Pearson's Correlation Coefficient	
	28-Oct-22	Problems under Karle Pearson's Correlation Coefficient	
	29-Oct-22	Problems under Karle Pearson's Correlation Coefficient	
	30-Oct-22	Sunday	
6	31-Oct-22	Problems under Spearmen's rank correlation coefficient	

Week	Date	Topics
1	1-Nov-22	Problems under Spearmen's rank correlation coefficient
	2-Nov-22	Problems under correlation coefficient for Bivariate frequency table
	3-Nov-22	Problems under Chi-square test of independence of attributes
	4-Nov-22	Problems under Chi-square test of independence of attributes
	5-Nov-22	Revision
	6-Nov-22	Sunday
2	7-Nov-22	Model Examination
	8-Nov-22	Model Examination
	9-Nov-22	Model Examination
	10-Nov-22	Model Examination
	11-Nov-22	Model Examination
	12-Nov-22	Saturday
	13-Nov-22	Sunday

Week	Date	Topics
3	14-Nov-22	Revision
	15-Nov-22	Revision
	16-Nov-22	Revision
	17-Nov-22	Revision
	18-Nov-22	Revision
	19-Nov-22	Revision
	20-Nov-22	Sunday
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- 1. Discussed the methods of collecting data, explain the functions, scope and limitation of statistics.
- Diagrammatic and graphical representation are used to give an extract idea of the collected data. Rules for Preparing diagrams.
- 3. Statistical analysis of univariate by mean, median and mode are also merits and demerits discussed.
- 4. Measures of dispersion enable a comparison to be made of two or more series with regard to their variability. The study of variation may also be looked upon as a means of determining uniformity of consistency.
- Correlation is a statistical tool used to study the relationship between two variables, Chi-Square method also discussed

Course Outcomes: Upon completion of this course students will have:

- 1. Know the uses of statistics in society
- 2. Organize, manage and present data
- 3. Analyze the statistical data graphically using frequency distribution and cumulative frequency distribution
- 4. Analyze statistical data using measures of central tendency, dispersion and location.
- 5. To understand correlation between continuous variables and association between categorical variables.

Books for reference:

- 1. Saxena H.C.: Elementary Statistics. S. Chand & Co., 2009.
- Gupta, S.C and Kapoor, V. K (2002), Fundamentals of Mathematical Statistics, Sultan Chand and Sons, New Delhi.
- Goon A.M., Gupta M.K. and Dasgupta B. (2002): *Fundamentals of Statistics*, Vol. I & II, 8th Edn. The World Press, Kolkata.
- 4. Irwin Miller, Marylees Miller (2006): *John E. Freund's Mathematical Statistics with Applications*, (7th Edn.), Prentice Hall International INC.
- Mood, A.M. Graybill, F.A. and Boes, D.C. (2007): *Introduction to the Theory of Statistics*, 3rd Edn., (Reprint), Tata McGraw-Hill Pub. Co. Ltd

1.ClassRoom/Lab Teaching	~
2. Online Resources	~
3. Slides	~
4. Expert Lecture	
5. Group Discussion	~
6. Seminar	~
7. Case Study	

Subject in charge

oordinator

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