Name of the Class: M. Sc. (Statistics) Semester-1st

Name of the Course: Statistical Methods and Distribution theory; Unit-2

Title of the topic	Date
Mathematical Expectation	15.09.14
Moment generating function	16.09.14
Tchebycheff's Inequalities	17.09.14
Jensen Inequalities	18.09.14

## Reference

- 1. Parzen, E.: Modern Probability Theory and its Applications, Wiley Interscience
- 2. Meyer, P.L.: Introductory Probability and Statistical Applications, Addison wesely.
- 3. Cramer, H.: Random variable and Probability Distribution, Cambridge University Press.
- 4. Gapta, S.C. and Kapoor, V.K., Fundamental of mathematical statistics, Sultan chand and sons.

Name of Class: M.Sc.(Statistics) Semester-I Name of Course: Inference-1 Unit: 1I Name of Teacher: Prof. Indra Rani Lecture Schedule of the week: 15.09.2014 to 20.09.2014 **Outline of lesson to be delivered in the classes (Compiled Information)** Ø Sufficiency and minimum variance. Ø Illustrations on sufficient statistics. Ø State and prove Rao – Blackwell Theorem on sufficiency. Reference Book: Advanced Theory of Statistics, Chapter-17, Vol.-II, By Kendal, M.G. & Stuart, A. Lab Work: Practical based on time-series to the students of Batch-I & Batch-II

To obtain trend by using method of moving average.

Name of Class: M.Sc.(Statistics) Semester-I

Name of Course: Applied Statistics (Unit: II) & Practical based on SPSS

Name of Teacher: Dr. M.S. Kadyan

Lecture Schedule of the week: 15.09.14 to 20.09.14

Outline of lesson to be delivered in the classes (Compiled information of the lesson plan)

<ol> <li>Periodogram &amp; Correlogram</li> <li>Correlogram of first order auto-regressive series.</li> <li>Correlogram of second order auto-regressive series.</li> <li>Correlogram of moving average scheme.</li> </ol>	. Periodogram & Correlogram  17/09/2014  . Correlogram of first order auto-regressive series.  18/09/2014  . Correlogram of second order auto-regressive series.  19/09/2014  . Correlogram of moving average scheme.  20/09/2014	<ol> <li>Correlogram of first order auto-regressive series.</li> <li>Correlogram of second order auto-regressive series.</li> </ol>	18/09/2014 es. 19/09/2014
<ol> <li>Correlogram of first order auto-regressive series.</li> <li>Correlogram of second order auto-regressive series.</li> <li>Correlogram of moving average scheme.</li> </ol>	. Correlogram of first order auto-regressive series.  18/09/2014  . Correlogram of second order auto-regressive series.  19/09/2014  . Correlogram of moving average scheme.  20/09/2014  rence: Fundamental of Applied Statistics by S.C. Gupta & V.K. Kapoor  Work: Practical will based on SPSS  : To measure central tendency.  15/09/2014  (B-III)	<ol> <li>Correlogram of first order auto-regressive series.</li> <li>Correlogram of second order auto-regressive series.</li> </ol>	18/09/2014 es. 19/09/2014
<ul> <li>3. Correlogram of second order auto-regressive series.</li> <li>4. Correlogram of moving average scheme.</li> <li>20/09</li> </ul>	Correlogram of second order auto-regressive series.  19/09/2014  Correlogram of moving average scheme.  20/09/2014  rence: Fundamental of Applied Statistics by S.C. Gupta & V.K. Kapoor  Work: Practical will based on SPSS  : To measure central tendency.  15/09/2014  (B-III)	3. Correlogram of second order auto-regressive series	es. 19/09/2014
4. Correlogram of moving average scheme. 20/09	Correlogram of moving average scheme.  20/09/2014  rence: Fundamental of Applied Statistics by S.C. Gupta & V.K. Kapoor  Work: Practical will based on SPSS  : To measure central tendency.  15/09/2014 (B-III)		
	rence: Fundamental of Applied Statistics by S.C. Gupta & V.K. Kapoor  Work: Practical will based on SPSS  : To measure central tendency.  15/09/2014 (B-III)	4. Correlogram of moving average scheme.	20/09/2014
erence: Fundamental of Applied Statistics by S.C. Gupta & V.K. Kapoor	Work: Practical will based on SPSS  : To measure central tendency.  15/09/2014 (B-III)		
ference: Fundamental of Applied Statistics by S.C. Gupta & V.K. Kapoor	Work: Practical will based on SPSS  : To measure central tendency.  15/09/2014 (B-III)		
	: To measure central tendency. 15/09/2014 (B-III)	erence: Fundamental of Applied Statistics by S.C. O	Gupta & V.K. Kapoor
	: To measure central tendency. 15/09/2014 (B-III)		
	(B-III)	<del></del>	
: To measure central tendency.		: To measure central tendency.	
	19/09/2014		` ′
· ·	(B-I)		
19/09 (B-I)			20/09/2014

Name of Class: M.Sc.(Statistics) Semester-I

Name of Course: Practical based on Calculator

Name of Teacher: Dr. Ram Niwas (on Contract Basis)

Lecture Schedule of the week: 15.09.14 to 20.09.14

Outline of lesson to be delivered in the classes (Compiled information of the lesson plan)

Topic:	Time series	To be Delivered on
	To obtain trend by using Spencer's 15-point formula.	B-II & III 15/09/2014 B-I 20/09/2014

Reference: Fundamental Applied Statistics by S.C. Gupta & V.K. Kapoor

Name of Class: M.Sc.(Statistics) Semester-III

Name of Course: Sampling Theory (Unit: II and III)

Name of Teacher: Dr. Ram Niwas (on Contract Basis)

Lecture Schedule of the week: 15.09.14 to 20.09.14

Outline of lesson to be delivered in the classes (Compiled information of the lesson plan)

Topic:	Two Stage Sampling	To be
		Delivered on
	Define two Stage sampling and find estimate of its mean.	15/09/2014
	Find estimate of variance for two stage sampling with	
	equal first stage units.	16/09/2014
UNIT:III		
Topic:	Sampling and Sub Sampling of Clusters.	
	Define single stage cluster sampling and find estimate of its mean.	17/09/2014
	Find variance of mean for equal single stage cluster sampling.	18/09/2014
	Find relative efficiency of cluster sampling.	19/9/2014
	Define Cluster sampling for proportions and also derive an expression	
	for variance of proportion.	20/09/2014

Reference: Sampling Theory by Des Raj and Chandak

Name of the Class: M. Sc. (Statistics) Semester-3<sup>rd</sup>

Name of the Course: C++ and JAVA; Unit-1

Title of the topic	Date
Constructor	17.09.14
Parameterized Constructor and Copy Constructor	18.09.14
Destructor	19,09,14
Operator Overloading	20.09.14

## Reference

- 1. Stroustrup, B.: The C++ Programming Language, Addison-Wesley, 1993
- 2. Lippman: C++ Primer, 3/e, Addison-Wesley
- 3. Balaguruswami, E.: Object Oriented Programming In C++, Tata McGraw-Hill.
- 4. Schildt, Herbert.: C++: The Complete Reference, 2/e, Tata McGraw-Hill,

Name of the Class: M.Sc. (Statistics) Semester-III

Name of the Course: Linear Programming-Paper III & IV Opt.(ii) Unit-II

Name of Teacher: Prof. Indra Rani

Lecture Schedule of the week: 15.09.2014 to 20.09.2014

Outline of Lectures to be delivered in the classes (Compiled information )

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Topic: Use of perturbation technique with simplex tableau format.

Topic: The generalized linear programming problems.

**Topic: Generalized Simplex Method.** 

Reference: Linear Programming By G.Hadley (Chapter 6)

Name of Class: M.Sc.(Statistics) Semester-III

Name of Course: Stochastic Process Unit: II

Name of Teacher: Dr. M.S. Kadyan

Lecture Schedule of the week: 15.09.14 to 20.09.14

Outline of lesson to be delivered in the classes (Compiled information of the lesson plan)

Titl	e of the	e topic:	To be Delivered on
	1.	Random Walk Models.	15,16/09/2014
	2.	Gambler's Ruin Problem.	17,18/09/2014

Reference: The Elements of Stochastic Process by N.T. Bailey