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

Name of Course: Inference-1I **Unit: I & II**

Name of Teacher: Prof. Indra Rani

Lecture Schedule of the week: 09.02.2015 to 13.02.2015

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

Tests of Hypothes :

- Ø **Power function and illustrations.**
- Ø **One and two sided tests.**
- Ø **Composite hypotheses**
- Ø **An optimum property of sufficient statistics**

Reference Book: Advanced Theory of Statistics, Chapter-22 & 23, Vol.-II,

By Kendal , M.G. & Stuart, A.

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

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

Name of Teacher : Prof. Indra Rani

Lecture Schedule of the week :09.02.2015 to 13.02.2015

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

Classical Optimization Techniques :

- **Maxima and Minima in the absence of Constraints.**
- **Illustrations.**
- **Constrained Maxima and Minima**

Reference : Non Linear Programming By G. Hadley (Chapter 1)

Mathematical Programming By Kambo, N.S.

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

Name of Course: Demography (Unit-1 & II) & Practical based on C

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

Lecture Schedule of the week: 09.02.15 to 13.02.15

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

Topic: Life Table	**To be Delivered on**
Define central mortality rate and force of mortality.	09/02/2015
Some theorems related to life table	10/02/2015
Uses of life table.	11/02/2015
Unit-II	
Topic: Abridged Life Table	
Define Abridged Life Table with examples.	12/02/2015
Reed Merrel method of construction of Abridged Life Table.	13/02/2015

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

<u>Lab Work</u>: Practical will based on C	
Find the mean and standard deviation for continuous data.	11/02/2015 (B-I) 12/02/2015 (B-II)

DEPARTMENT OF STAT & O. R., K.U. KURUKSHETRA

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

Name of the Course : Operations Research Unit: I

Name of Teacher : Prof. N.K. Jain (Guest Faculty)

Lecture Schedule of the week : 9/2/2015 – 14/2/2015.

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

Title of the topic

1. Application of Simplex method to solve different types of linear programming problems.
2. Duality method to solve the LPP.

Reference

1. Operations Research — B.S. Goel and S.K. Mittal, Pragati Prakashan, Meerut
2. Operations Research Theory and Applications — J.K. Sharma, MacMillan

N Jain
6/2/2015.

DEPARTMENT OF STAT & O. R., K.U. KURUKSHETRA

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

Name of the Course : Information Theory opt.(iii) Unit: I

Name of Teacher : Prof. N.K. Jain (Guest Faculty)

Lecture Schedule of the week: 9/2/2015 — 14/2/2015.

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

Title of the topic

1. Measure of uncertainty and its properties
2. Measure of information for two dimensional discrete finite probability schemes.

Reference

1. An Introduction to information Theory F. M. Reza
   McGraw Hill Book Co. Inc.

NMani
6/2/2015.

Name of the Class: M. Sc. (Statistics) Semester-2nd
Name of the Course: Computer Fundamentals and Problem Solving Using C; Unit-1
Lecture of schedule of week: 09-02-15 to 12-02-15
Title of the topic
Types of software
Flowcharting
Decision table
Algorithms
Reference

1. Sinha. P.K. & Sinha, Priti, Computer Fundamentals, BPB
2. Dromey, R.G., How to Solve it By Computer, PHI

Name of the Class: M. Sc. (Statistics) Semester-4th
Name of the Course: Linear Estimation & Design of Experiments ; Unit-1
Lecture of schedule of week: 09-02-15 to 12-02-15
Title of the topic
Best linear unbiased estimators (BLUE)
Method of least squares
Gauss Markov theorem.
Reference

1. Kshirsagar, A.M.(1972) : Linear Models, Marcell-Dekhar
2. Searle, S.R.(1971) : Linear Models , John Wiley & sons New York.

Practical (Computer based)

Title of the topic
Testing the significance of the mean of a random sample from a normal population.

05/02/15

(Dr. Jitender Kumar)
Assistant Professor
Department of Statistics & O. R.
Kurukshetra University, Kurukshetra