

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

Name of Course: Inference-1I

Unit: II

Lecture Schedule of the week: 16.03.2015 to 21.03.2015

Name of Teacher: Prof. Indra Rani

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

Ø Cumulants of non – central chi square distribution.

Ø Asymptotic distribution of the Likelihood Ratio statistic.

Ø Asymptotic power of Likelihood Ratio Tests.

Reference Book: Advanced Theory of Statistics, Chapter- 24 , 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-II

Name of Teacher : Prof. Indra Rani

Lecture Schedule of the week: 16.03.2015 to 21.03.2015

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

Classical Optimization Techniques :

- Ø Beale's approach for treating the quadratic objective function.
- Ø Illustrations.
- Ø Separable programming problem.
- Ø Reduction of Separable programming problem to Linear programming problem.

Reference : Mathematical Programming By Kambo, N.S.

Introduction to Operations Research By Churchman, C.W.

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

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

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

Lecture Schedule of the week: 16.03.2015 to 21.03.2015

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

Unit-III	To be Delivered on
Topic: Structure of Populations	
Lotka's Stable Population model	16/03/2015
Fundamental equation of stable population theory	17/03/2015
Find Intrinsic rate of growth	18/03/2015
Find Intrinsic birth rate of stable population	19/03/2015
Find Intrinsic death rate of stable population	20/03/2015
Find intrinsic age distribution	21/03/2015
 Reference: Fundamental Applied Statistics by S.C. Gupta & V.K. Kapoor and Technical Demography by R. Ramakumar	
 Lab Work: Practical will based on C	
Fitting of Binomial distribution.	18/19/03/2015 (B-I)& (B-II)
Fitting of Poisson distribution	20/21/03/2015 (B-I)& (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: III

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

Lecture Schedule of the week : 16/3/2015 — 21/3/2015

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

Title of the topic

1. Game Theory: Terminology
 2. Two person zero sum game.
 3. Game of pure strategy
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Reference

1. Operations Research
Pragati Prakashan
Mumbai

B.S. Grew and S.K. Mittal

2. Operations Research
Theory and Applications
McMillan

J. K. Sharma

N. Jain
16/3/2015

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: II & III

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

Lecture Schedule of the week: 16-03-2015 - 21-03-2015

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

Title of the topic

1. Uniqueness of entropy function
2. Elements of encoding
3. Separable codes

Reference _____

An Introduction to
Information Theory
McGraw Hill Book.
Co. Inc.

F. M. Reza.

N/KJain
10/3/2015

