



PONDICHERRY UNIVERSITY
DEPARTMENT OF STATISTICS

Ramanujan School of Mathematical Sciences

*All Students, Research Scholars and Faculty Members are cordially
invited for*

SERIES OF LECTURE PROGRAM



**Order Statistics and its Uses in
Statistical Estimation**

by

Prof. P. Yageen Thomas

(Retired Professor of Statistics)

Department of Statistics, University of Kerala, Kerala

Schedule of the Program:

Date	Time	Venue
February 19-20, 2020 (Wednesday and Thursday)	2:30-5:30 pm	Seminar Hall Dep. of Statistics, RSMS, PU

Dr. Navin Chandra
(Coordinator)

Dr. P. Dhanavanthan
(Convener and Head)

(Note: Please see the abstract of lecture in the next page)

Order Statistics and its Uses in Statistical Estimation

Abstract:

Talk-1: Order statistics (OS), distribution theory, joint distribution, conditional distribution, Markov property of OS, moments of OS, recurrence relations and applications, OS from symmetric distributions.

Talk-2: Discrete OS, distribution of some functions of OS, uniform OS, exponential OS, OS of independent non-identically distributed random variables, some simple characterization theorems using OS.

Talk-3: OS and sufficiency, best linear unbiased estimators (BLUE) based on OS, modified form of BLUE from symmetric distributions, Gupta's simplified linear estimators, some contemporary estimators based on OS.

Talk-4: Introduction to U-statistics, some essential properties, U-statistics based on BLUE as kernels, theory and applications to specific distributions.