

5, बेनितो हुआरेज मार्ग
साउथ कैंपस
नई दिल्ली-110021
दिल्ली विश्वविद्यालय

राम लाल आनंद महाविद्यालय
RAM LAL ANAND COLLEGE

5, Benito Juarez Marg
South Campus
New Delhi-110021
UNIVERSITY OF DELHI



Department of Microbiology, Ram Lal Anand College,

**Centre for Innovation in Infectious Disease Research,
Education and Training (CIIDRET)**

and

**Delhi School for Skill Enhancement & Entrepreneurship
Development (DSSEED),
University of Delhi**

Jointly present

2nd Online Certificate Course (40 hours)

on

Basic Statistics for Biological Sciences

(Under DBT Star College Scheme and
100 Days Skill Development Festival of CIIDRET and DSSEED)

10 online weekend sessions of 4 hours each via Zoom

**14th January 2023 – 12th February
2023**

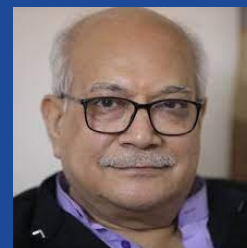
**Limited Number of Seats Available!!
Register before 12th January, 2023**



Prof. Perna Diwan,
Coordinator,
DBT Star College Scheme



Patron
Prof. Rakesh Kumar Gupta
Principal, Ram Lal Anand College



Prof. VK Chaudhary
Director DSSEED



Prof. Amita Gupta
Director CIIDRET

COURSE COORDINATORS:

Dr. M Salome John, Assistant Professor,
Department of Microbiology

Dr. Nidhi S Chandra, Assistant Professor,
Department of Microbiology



ABOUT THE DEPARTMENT OF MICROBIOLOGY, RAM LAL ANAND COLLEGE

Ram Lal Anand College is a University of Delhi maintained college, fully funded by UGC (Govt. of India). The college offers 14 undergraduate programs for students of different streams including Humanities, Commerce, and Science along with one Post Graduate Degree Program in Hindi. The college is a NAAC accredited college with a B++ Grade.

The Department of Microbiology was established at Ram Lal Anand College in the year 1989. It runs an undergraduate Honors program in Microbiology and has recently been awarded as the “**Best Microbiology Department**” by the Microbiologists Society, India. It has been funded for financial support under “Star College Scheme” by Department of Biotechnology DBT, Ministry of Science and Technology (2019-22). It has well equipped laboratories, with all the basic and advanced instruments and software to impart basic hands-on training to students. The department faculty have completed several research projects funded by ICMR, DBT, and University of Delhi and are currently running two ICMR funded research projects with a grant of over 1 crore.

CIIDRET is a multidisciplinary center with collaborators from academia and industry. It is situated at the South Campus of the University and carries out basic and translational research addressing diagnostics, therapeutics and prophylactics aspects of infectious diseases concerning India.

DSSEED aims to fill the gap in the current knowledge delivery at DU for meeting the immediate and future challenges with ever-evolving programs involving all streams of education.

COURSE OUTCOMES

On successful completion of this course, students would be able to:

- Understand the Basic Concepts of Statistics
- Handle Biological Data, including samples of large size (16s sequencing data) and learn to Represent it graphically using Excel.
- Appreciate and understand how statistics helps in analysing biological data (which the participants can relate to), using a variety of exercises .

WHO SHOULD ATTEND THIS COURSE

This course aims to orient participants to basic statistics tools used in Biological sciences. It has been designed to be easy enough to grasp for those students who have not opted for mathematics after class 10. For this reason, every session includes a hands-on component which is conceived to be important for helping students to gain confidence in the actual handling and representation of data.

MODULES

MODULE 1: Introduction to Biostatistics, Collection, Classification, Tabulation and Visual Plotting of Data using Excel

MODULE 2: Measures of Central Tendency, Measures of Spread or Dispersion using Excel

MODULE 3: Variables: Continuous, Discrete and Random; Chi square test, Student t test. using Excel

MODULE 4: Curves: Types, Fitting, and Scatter Diagram, Karl Pearson Coefficient of Correlation, Rank Correlation and Tied Ranks using Excel

MODULE 5: Sample and Population, Sample Size, Types of Sampling, Standard Error, Levels of Significance, p-value and Confidence Limits

The course will be conducted via Zoom on weekends (10 sessions of four hours each) and required information shall be shared on a WhatsApp group for registered participants.

Registration for the Course

A nominal fee of Rs. 1000/- will be charged from participants not belonging to RLA college.

To register, click here: <https://forms.gle/uc7nnJA3pBJxJicGA>



Dr. Rita Jain, Assistant Professor, Dept of Statistics, Ram Lal Anand College: A dynamic, dedicated and motivated teacher involved in teaching Biostatistics to undergraduate students at RLAC for over two decades



Ms. Deboshree Das, PhD scholar at International Institute for Population Sciences: An M.Phil in Biostatistics and Demography with 6 years of experience in handling data and an outstanding Alumnus of the Department of Statistics, RLAC, Batch of 2017

Contact Person:

Dr. M Salome John

Mobile number: +91 8860504883

email: microrlastar@gmail.com

Student Volunteers:

Sandeep Patra: 9174584668

Deepansha: 8700067984

Ananya Singh: 9549265889