



**MANAV RACHNA  
UNIVERSITY**

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Department of Sciences(Mathematics)

Organizes  
an invited Talk on

# “Applications of Probability & Statistics”



**Prof.(Dr.) Ranjita Pandey**  
Professor, Department of Statistics  
University of Delhi

**On 27th March, 2024(Wednesday)**  
from 11:00 onwards  
Venue: IT-09

**Topic: Applications of Probability & Statistics**

**Date:** March 27, 2024

**Time:** 11:30 - 01:00 P.M.

**Venue:** IT09

**No. of Participants:** 30

**Resource Person: Prof.(Dr.) Ranjita Pandey, Professor & Head, Deptt. of Statistics, Delhi University.**

School of Sciences, Department of Sciences(Mathematics), Manav Rachna University organized an expert talk on “**Applications of Probability & Statistics**” at Manav Rachna University on 27th March 2024, from 11:30 am onwards for the UG & PG students and the faculty members.

The expert speaker was welcomed by presenting her with a sapling as a token of love and gratitude. Ms. Vineeta, student of M.Sc.(Mathematics) gave a brief introduction of the speaker and the objective of the invited talk.

Prof. Ranjita commenced the talk with an overview of Statistics .She emphasized the significant role played by statistics in understanding the story of data and how statistics assists in making decisions when uncertainty exists.

A significant portion of the lecture was dedicated to exploring the various statistical methods. Prof. Ranjita elucidated the role of statistical techniques and probability in making informed decisions based on data. She also explained the statistical study concerns which are mentioned as experimental and observational study.The applications of the two depend on to determine the desirability of different treatments or preventive measures or to bring desired change(**experimental study**) or to assess the effects of causal factors (a predisposition/an environmental exposure/ individual’s lifestyle over which the researcher has no control) on the occurrence or progression of the study aspect (any unwanted medical/psychological condition). This leads to **observational study**.

The central focus was how Statistical science is concerned with the evidentiary value of observations. The speaker explained Statistics is concerned with how data changes beliefs - the purpose of statistical science is to help people change their beliefs in a rational way when confronted with new information.

The lecture was followed by an interactive question-and-answer session, allowing the audience to engage with the speaker directly. Attendees had the opportunity to seek clarification on specific concepts.

The session was concluded with a vote of Thanks proposed by Dr. Aparna Vyas, Program Head-Mathematics, Department of Sciences.

Attached are a few glimpses of the event.



Speaker is Presenting





Students & Faculty members attending the Lecture