# INTEGRAL UNIVERSITY

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# Brief Report on "TWO-WEEK PROFESSIONAL DEVELOPMENT PROGRAM On Inferential Statistics for Data Science to Achieve the Sustainable Development Goals"

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#### TWO-WEEK PROFESSIONAL DEVELOPMENT PROGRAM

On

Inferential Statistics for Data Science to
Achieve the Sustainable Development Goals
July 20, 2022 - August 02, 2022
Organized By

#### **DEPARTMENT OF MATHEMATICS & STATISTICS**

## **Brief Report**

Department of Mathematics & Statistics, Integral University organized a Two-Week Professional Development Program on the topic "Inferential Statistics for Data Science to Achieve the Sustainable Development Goals" from July 20 to August 02, 2022.

The Inaugural Session was held on 20-07-2022 started with the welcome address by DR. Abdul Wadood Khan, head, Department of Mathematics & Statistics. He emphasized the relevance of this Programme and highlighted the importance of data science in day to day life and its wide scope in the different fields of studies. Prof. Aqil Ahmad, Professor of Eminence, in his inaugural speech briefly explained how the Data science and analytics play a major role in achieving the sustainable development goals, particularly measuring social impact, managing resources, tackling climate change, and improving the quality education. The field encompasses preparing data for analysis, formulating data science problems, analyzing data, developing data-driven solutions, and presenting the findings to high-level decisions in a broad range of application domain

The modules of PDP were designed to enhance the professional knowledge and skill of Faculty Members, Research Scholars and Students in the field of Inferential Statistics to accomplish the UN Sustainable Development Goals. The modules were delivered by the renowned resource persons of the respective fields followed by discussion and question answer sessions with the participants.

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# **Highlights of the Modules:**

#### **MODULE-1**

Delivered by **Dr. Mohammad Rizwanullah** Associate Professor, Department of Mathematics and Statistics, Manipal University, Jaipur on the topic "Basics of Statistics" also explained the procedures to define the Objective of analysis, Collection of Data, Data Visualization, Data Processing, Data Modeling, and Interpretation of Data followed by interaction session with quizzes & Assignments.

#### **MODULE-2**

Delivered by **Dr. Mohammad Rizwanullah,** Associate Professor, Department of Mathematics and Statistics, Manipal University, Jaipur on the topic "Inferential Statistics & Estimation" which included Sampling distribution, Parameter, Statistic & Estimator, Point and Interval Estimations followed by interaction session with quizzes & Assignments

#### **MODULE-3**

Delivered by **Dr. Mohammad Rizwanullah,** Associate Professor, Department of Mathematics and Statistics, Manipal University, Jaipur on the topic "Testing of Hypothesis" which included large and small sample tests, parametric and non parametric tests followed by interaction session with quizzes & Assignments

### **MODULE-4**

Delivered by **Dr. Quazzafi Rabbani**, Associate Professor, Department of Mathematics and Statistics, Integral University, Lucknow on the topic "Introduction to SPSS" which included the Getting Started SPSS, Menu Interface, Creating data file, Defining Variables, Entering Data, Output Viewer, Reading in Data from Excel to SPSS, Saving Results (output), Export Output to Word File followed by interaction session with quizzes & Assignments

#### **MODULE-5**

Delivered by **Dr. Quazzafi Rabbani**, Associate Professor, Department of Mathematics and Statistics, Integral University, Lucknow on the topic "Data Analysis by SPSS" which included summarizing the data, visualization of data through bar diagram, histogram and pie chart, prediction, testing of hypothesis for parametric & non parametric distributions followed by interaction session with quizzes & Assignments

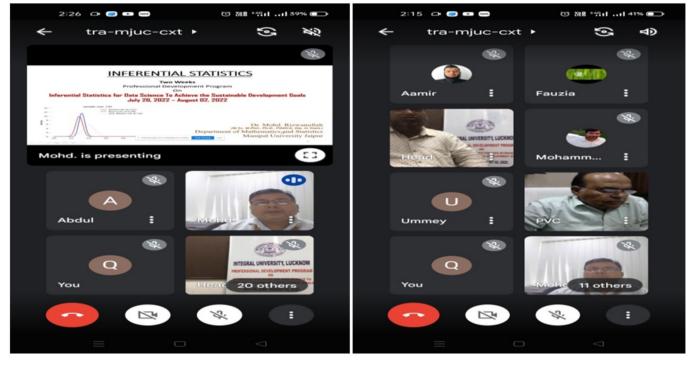
# **MODULE-6**

Delivered by Dr. Abdul Quddood, Assistant Professor, Department of Mathematics and Statistics, Integral University, Lucknow on the topic "Introduction to R Software" which included

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introduction to R and R Studio, R Studio interface and basics, Basic arithmetic and variable assignment, Comparison and logical operators, Data types, Vectors, Functions, Loops and conditionals, Data frames, Data visualization followed by interaction session with quizzes & Assignments

There were daily interactive sessions with assignments and quizzes. About 80 participants from various disciplines and institutes registered in this program. The participants attended the training with dedication. The distribution of e-Certificate was based on participant's attendance, submitted assignments and performance in the quizzes. The Program marked its end with the Valedictory Session held on 02-08-2022. The PDP was successfully coordinated by Dr. Shadab Ahmad Khan, Dr. Malik Rashid Jamal and Dr. Mohd. Assim Khan. The PDP was well anchored by Ms. Uzma, Research Scholar of the department.



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CERTIFICATE	OF COMPLETION
This is to certify that Prof./Dr./Mr./Ms	XXX
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Two Weeks Professional D Inferential Statistic Achieve the Sustaina organ Department of Mati Faculty of Science, In	ally completed Development Programme on Es for Data Science to Lible Development Goals Lized by hematics & Statistics Litegral University, Lucknow 2022 to 02.08.2022
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Dr. Abdul Wadood Khan Convener	Prof. Aqil Ahmad Patron

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