VIDYASHILP UNIVERSITY

Integrative Pedagogy to Teach Statistics and Data Science for Undergraduates

DAY 2: 28th
July,2022

— Organized by —

VU | School of Computational & Data Sciences

Core Faculty Development Program Topics:

Session 1: Case study on Exploratory Data Analysis

Session 2: Teaching Tests of Hypothesis: Case study approach.

Session 3: Assignment – Presentation by participants – Case study in Statistics

Session 4: Teaching Regression and Time Series Analysis

Summary:

Session 1:

The importance of Exploratory Data Analysis was explained with real-life scenarios to provide a deeper understanding of data. This was done by discussing the three main data theories:

- Initial Data Analysis
- Exploratory Data Analysis
- Confirmatory Data Analysis

Session 2 & 3:

To effectively learn concepts like poisson distribution, tests of hypothesis, normal distribution, induction, reduction, Type I & Type II error and level of significance etc, there were discussions and interactions through case studies, which also focussed on learning methods

Session 4:

Through case studies from multiple domains like sports, human resources data etc, concepts such as simple linear regression model, multiple linear regression model, logistic regression model and their applications were discussed