

## DATA ANALYSIS USING ' **Jamovi**'

Course Coordinator

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When the course is successfully finished, the students will understand

- ☒ How Data Science can Solve Many Common Business Problems
- ☒ How to write code in Jamovi
- ☒ Descriptive and Inferential Statistics for Data Science
- ☒ Linear and Logistic Regression
- ☒ Using data science in the areas of marketing and finance

### Course Outline

Unit 1: Basics of Jamovi: Installing Jamovi, Variables and Data types, Basic Jamovi Code [ 6hrs]

Unit 2: Graphs using Jamovi: Bar, Pie, Histogram, Scatter [4 hrs]

Unit 3: Introduction to Statistics with Jamovi: Measures of Central Tendency and Dispersion, Introduction to Probability, Probability Distributions, Central Limit Theorem, Confidence Interval Estimation, Hypothesis testing (Z test, T test, Chi Sq Test), Types of Errors, Introduction to ANOVA. [14 hrs]

Unit 4: Non parametric test [4 hrs]

Unit 5: Correlation, Simple and Multiple Regression [8 hrs]

Unit 6: Logistic Regression [4hrs]