CRITERIA 1.2.1 Assessment Year 2019-20



LESSON PLAN-DATA ANALYTICS

Certified Course in R and Machine learning JIMS

Learning Outcome of the course would be:

1. Develop understanding of the basic and advanced R programming.

2. Strengthen the ability to frame and formulate functions in R.

3. Deepen the ability to interpret with the help of various live examples.

Duration: 40 Hours

Mode: Hands on, Instructor Led

Minimum Number of Participants: 40

Course Content

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Date and Time options in it	
Essential Data Structure in R:	4
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Implementing Strings in R:	4
Character Strings in R	
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	Empty stringsStrings and R objects

5	Visualizing and analyzing Data in R:	4
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	❖ Graphical methods	
	❖ Graphical Analysis	
6	Descriptive Statistics using R	4
	Central Tendency - Mean and Weighted Mean and Geometric Mean, Median, Mode, Percentiles and Quartiles	
	Dispersion - Variance, Standard Deviation and Range, Interquartile Range and Coefficient	
	of Variation Numerical Measures: Z-Scores, Chebyshev's Theorem, Empirical Rule and Detecting Outliers Exploratory Data Analysis – Five – Number	
	Summary, Box Plot Measures of Association: Covariance and Correlation Coefficient	
7	Linear Regression using R	4
•	❖ Linear Regression Analysis	
	❖ Formulation of Regression Model	
	❖ Bivariate Regression	
	❖ Statistics Associated with Bivariate Regression	
	Analysis	
	❖ Conducting Bivariate Regression Analysis	
	❖ Multiple Regressions	
	❖ Conducting Multiple Regression	And the second s
Q	Logistic Regression using R	4
3	♣ Logistic Function	
	❖ Single Predictor Model	
	❖ Determine Logistic Cut off	
	Estimated Equation for Logistic Regression	
Ó	Naïve Bayes Classification	4
	❖ Naïve Bayes Introduction	
	Probabilistic Basics and Probabilistic Classification	
	❖ Characteristics of Naïve Bayes	
	Real Time Case study using Naïve Bayes	
August 1	Advantage and Shortcoming of Naïve Bayes	
(A)	Live Project	4