Techno India NJR Institute of Technology

Academic Administration of Techno NJR Institute

Proposed Course Outline

Name of Faculty: Dr. Jitendra Shreemali

Department: Department of Computer Science & Engineering

Total No. of Lectures Planned: 34

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| No. of Lectures/Hours | Topic |
| **1** | **BASIC BUSINESS STATISTICS: INTRODUCTION** |
| 2 | Pictorial representation of data & measure of central tendency and dispersion |
| 2 | Basics probability & probability distributions, conditional probability, Bayes theorem |
| 2 | Discrete & continuous variables, their distributions & applications |
| 2 | Use of R for statistical Analysis |
| **1** | **BASICS OF DATA ANALYTICS:** |
| 2 | Basics of sampling, Sampling distribution & Sampling errors |
| 3 | Central Limit theorem & hypothesis testing; Chi-squared Test for goodness of fit; |
| 2 | Data Analytics using R & Python |
| **2** | **Basics of Machine Learning** |
| 2 | IRIS data set using R & Python |
| 2 | ML using Random Forest Algorithm |
| 2 | Sentiment Analysis Using R |
| **1** | **Applications of Machin Learning** |
| 2 | Review of Classifiers for Machine Learning |
| 3 | Multi Category Image Classification using MINST Data |
| 3 | Classifying Pictures (2 Category) using TensorFlow |
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| **34** | **TOTAL** |