



Jansons Institute of Technology

Karumathampatti, Coimbatore – 641 659
Approved by AICTE and Affiliated to Anna University
An ISO 9001:2015 certified institution

Industry Readiness Course - Syllabus Department of Computer Science and Engineering Model Development using Exploratory Analysis 2021 - 2022 EVEN Semester

Course Objectives:

- To understand the Python Packages for Data Science NumPy, SciPy, Matplotlib.
- To be able to apply Pandas - Importing and Exporting Data in Python, Pre- processing Data in Python.
- Understand how Data Wrangling, Retrieving Data.

Course Outcomes:

- Analyse the Hypothesis Testing, Descriptive Statistics.
- Create a Visualization, Correlation analysis, Analysis of Variance ANOVA.
- Ability to Handle the Multiple linear regression.

Syllabus:

Module I : Introduction

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A Brief History of Modern AI and its Applications, Python Packages for Data Science NumPy, SciPy, Matplotlib, and Pandas - Importing and Exporting Data in Python, Pre- processing Data in Python.

Module II : Exploratory Analysis

10

Importing Datasets, Data Wrangling, Retrieving Data, Exploratory Data Analysis and Feature Engineering, Inferential Statistics and Hypothesis Testing, Descriptive Statistics,

Module III : Visualization Analysis

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Visualization, Correlation analysis, Analysis of Variance ANOVA, Linear Regression, Multiple linear regression, Model Development using Case Studies

Course Designed By

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