SYLLABUS COPY

DS3210PE: DATA PREPARATION AND ANALYSIS

Course Code	Category Professional Elective	Hours/Weak			Credits	Max Marks			
DS3210PE		L	Т	P	C	CIE	SEE	Total	
		3	0	0	3	25	75	100	
Contact Classes:45	Tutorial classes:15	Pra	Practical classes: Nill				Total Classes:60		

OBJECTIVES:

- To learn to gather data
- To understand different cleaning methods of data

OUTCOMES:

- Student will able to prepare different data formats
- Able to analyze data

Unit I

Data Gathering and Preparation: Data formats, parsing and transformation, Scalability and real-time issues

Unit II

Data Cleaning: Consistency checking, Heterogeneous and missing data, Data Transformation and segmentation

Unit III

Exploratory Analysis: Descriptive and comparative statistics, Clustering and association, Hypothesis generation

Unit IV

Visualization: Designing visualizations, Time series, Geo located data, Correlations and connections, Hierarchies and networks, interactivity

Unit V

Visualizations using R

Textbook:

1. Glenn J. Myatt, Making sense of Data: A practical Guide to Exploratory Data Analysis and Data Mining, John Wiley Publishers, 2007.