DEPARTMENT OF Computer Science Dyal Singh College, University of Delhi

(ACADEMIC SESSION, 2023-24)

Course: Paper Code and Name:

B.Sc. (Hons.) Computer Science (Semester V) Data Analysis and Visualization, BHCS15A

(TH)

FACULTY

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ASSESSMENT DETAILS

Total Marks for the course is 100, comprising following components

- Attendance 5 marks
- Individual Assignment 10 marks
- Test/ Presentation 10 marks

TEACHING PLAN

Week	Topics Covered/ Assignments/ Test/Presentations
12	Python for Data Analysis, Essentials of Python Library, Python Interpreter, Python
	Language Basics, Test
3-7	NumPy ndarray, Pandas data structure, Essential Functionality, Summarizing and
	Computing Descriptive Statistics, Reading and Writing Data in Text format,
	Interaction with Web APIs, Interacting with Databases, Handling missing data,
	data transformation, String manipulation, Test
8-11	Hierarchical indexing, Combining and Merging datasets, API Primer, Plotting with
	pandas and seaborn, Assignment
12-14	GroupBy mechanics, Data aggregation, General Split-apply combine, Pivot tables
	and cross tabulation, Date and Time Data types and tools, Time Series basics, Data
	ranges, Frequency and shifting, Time zone handling
15	Categorical Data, Advanced GroupBy use, Techniques for method Chaining
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s/d Prof. Anita Goel