



Delhi Public School Guwahati

"Under the aegis of the Delhi Public School Society, Delhi"

LESSON PLAN

CYCLE 3: 24th May'21 to 4th May'21

Grade: XII

Subject: Informatics Practices

Name of the Lesson : Data Handling using Pandas –I

<i>Lesson Objectives</i>	
<i>General</i>	<i>Specific</i>
<i>Learners will able to know</i> <ul style="list-style-type: none"> • About the data structure in pandas • How to work with them • How to deal with big data • For concise the codes 	<i>Pandas Data structure Concept</i>

Pre-Requisites Of The Lesson-

- Python Arrays
- Numpy Arrays
- List
- Dictionary
- Series

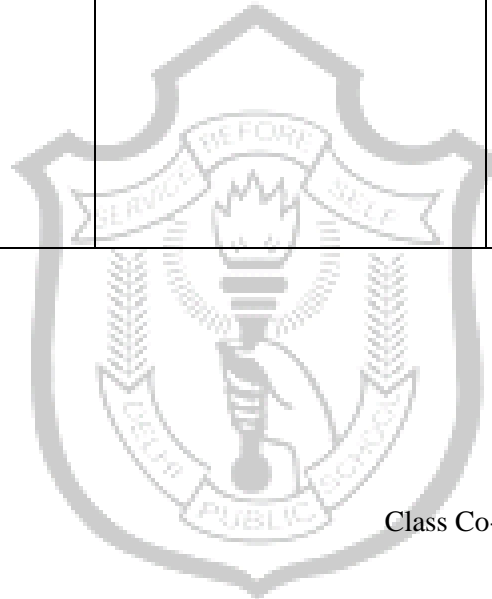
Instructional Procedures:

<i>Topics to be Covered</i>	<i>Keywords</i>	<i>Teaching Methodology Used</i>	<i>Software/Hardware Used</i>	<i>Practical Task</i>
<i>Dataframes</i> <ul style="list-style-type: none"> • Data Frames: creation of data frames from dictionary of series, list of dictionaries, text/CSV files, display, iteration. • Operations on rows and columns: add add (insert /append) , 	<i>To_numeric(),Comma Seperated Values,Drop Rename,Reindex etc.</i>	<i>Explanation, Discussion, Real Life Examples, Computer Lab</i>	<i>Computer Set, Jupyter notebook on google browser</i>	<i>Short Questions: Q1. Write a Pandas program to compare the elements of the two columns of Pandas DataFrame.</i>



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<p><i>select, delete (drop column and row), rename, Head and Tail functions, indexing using labels, Boolean indexing;</i></p> <ul style="list-style-type: none">• <i>Jjoining, merging and concatenation of data frames.</i>				<p><i>Q2. Write a Pandas program to change the data type of given a column of DataFrame.</i></p> <p><i>Q3. Write a Pandas program to sort a given Dataframe on a specific column.</i></p>
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Sub Teacher

Class Co-ordinator