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Python for Data Science Syllabus June 2nd • June 23st	
Study Plan	
Session 1 Sat, June 2 10.00am – 3.00pm	<ul style="list-style-type: none"> • Variables • Data types: strings, integers, floats, lists • Data types: tuples, dictionaries, sets • Control Flow statements • If and Else statements • For loops • Indexing and slicing • Creating Custom Functions • Practical Exercises
Session 2 Sat, June 9 10.00 am – 3.00pm	<ul style="list-style-type: none"> • Scientific computing with Python • NumPy Arrays • Creating and manipulating NumPy Arrays • Computation on NumPy Arrays • Broadcasting and UFuncs • Sorting and Indexing NumPy Arrays • Reading and Writing CSV and TXT files with Python • Analyzing a File's content • Practical Exercises
Session 3 Sat, June 16 10.00 am – 3.00pm	<ul style="list-style-type: none"> • Python Data Analysis Library - Pandas • Pandas Data structures • Aggregating data in Pandas • Data Indexing and Selection • Logic, Control Flow and Filtering in Pandas • Aggregation and Grouping • High-Performance Pandas • Practical Exercises
Session 4 Sat, June 23 10.00 am – 3.00pm	<ul style="list-style-type: none"> • Python Data Analysis Library – Pandas • Visualization with Matplotlib • Line Plots, Scatter Plots and Histograms • Customizing Plots • Multiple Subplots • Density and Contour Plots • Final Project

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