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Python for Data Science Syllabus	
May 8th • May 11th	
Study Plan	
Session 1 Tue, May 8th 11.00am – 4.00pm	<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 Wed, May 9th 11.00 am – 4.00pm	<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 Thu, May 10th 11.00 am – 4.00pm	<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 Fri, May 11th 11.00 am – 4.00pm	<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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