

# Python Immersive syllabus

Week one	Study Plan
Day 1	<ul style="list-style-type: none"><li>• Terminal commands</li><li>• Git versions of common source management concepts and commands</li><li>• Variables</li><li>• Data types: strings, integers, floats, lists</li><li>• For loops</li><li>• Practical Exercises</li></ul>
Day 2	<ul style="list-style-type: none"><li>• Functions</li><li>• Data types: tuples, dictionaries, sets</li><li>• If statements</li><li>• While loops</li><li>• Indexing and slicing</li><li>• Python's datetime module</li><li>• Practical Exercises</li></ul>
Day 3	<ul style="list-style-type: none"><li>• Reading from a File</li><li>• Making a List from a File</li><li>• Analyzing a File's content</li><li>• Regular expressions</li><li>• Writing to a File</li><li>• Appending to a File</li><li>• Practical Exercises</li></ul>
Day 4	<ul style="list-style-type: none"><li>• Program structure</li><li>• Args and Kwargs</li><li>• Exceptions</li><li>• Assert statements</li><li>• Working on projects</li></ul>
Day 5	<ul style="list-style-type: none"><li>• Week 1 Review and Q&amp;A</li><li>• Working on projects</li><li>• Weekly Quiz</li></ul>

Week two	Study Plan
Day 1	<ul style="list-style-type: none"><li>• Big-O notation</li><li>• Data structures</li><li>• Binary search</li><li>• Bubble Sort</li><li>• Insertion sort</li><li>• Selection sort</li><li>• Merge sort</li><li>• Exercises</li></ul>
Day 2	<ul style="list-style-type: none"><li>• Creating Objects</li><li>• Classes and Methods</li><li>• Relational databases</li><li>• SQLite</li><li>• Exercises</li></ul>
Day 3	<ul style="list-style-type: none"><li>• Python and the Web</li><li>• Web scraping</li><li>• Exercises</li></ul>
Day 4	<ul style="list-style-type: none"><li>• Modular Programming</li><li>• Working on Project</li></ul>
Day 5	<ul style="list-style-type: none"><li>• Week 2 Review and Q&amp;A</li><li>• Resume builder session</li><li>• Portfolio of code review</li><li>• Projects presentation</li></ul>

