Coding for Linguists  
Assignment Outlines

Course code = LN6209

Year of presentation = 2021-22

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| **Week** | **Lesson** | **Assignment** |
| **1** | Getting started with Python and software development: | Install Python on your PC and confirm it is working  Confirm you have done practice tasks |
| **2 \*** | Values, variables, operators, and types | Create specified functions and submit python module |
| **3** | Functions, debugging and testing | Create specified functions and submit python module |
| **4 \*** | Conditional execution, collections, iteration, exceptions | Create specified functions and submit python module |
| **5** | Reading and writing files | Read a given text file and report on contents.  Write a specified text file.  Submit python modules and outputs. |
| **6 \*** | Analysis of text – part I | Read given text files and analyse contents.  Write a text file reporting on the results of analysis.  Submit python module |
| ***7*** | Reading week | *Reading week* |
| **8** | Regular Expressions | Regular Expressions practice  Submit python module |
| **9 \*** | Analysis of text – part II | Mini project report:  Requirements, analysis, design, build, test, evaluate  From a text corpus extract a list of the standard words used (e.g., ‘activated’ & ‘activation’ both map to the same word ‘active’) |
| **10** | Data visualisation | Prepare graphs and charts from given data  Submit python module |
| **11 \*** | Jupyter Notebooks | Create a notebook, use it for specified tasks  Submit Jupyter notebook (or link to notebook) |
| **12** | More software libraries: ANTLR, ST, NLTK, ... | More software libraries: ANTLR, ST, NLTK, ...  Other languages, big data, machine learning, artificial intelligence, chatbots and other recent developments.  No assignment on this work. |

\* = Assessed assignment