



Course Code & Title	LISS373 - Introduction to programming using Python				
Convenor(s)	Lina Kramer				
Institution	King's College London	Department		Department of Political Economy	
Academic Year	2023-24	Term		Summer term	
Number of sessions	4	Research Platform	Quantitative Research (QuT)	Length of Session(s)	2.5h
Day, Date		Start : End		Room Location	
8 th , May 2024 15 th , May 2024 22 nd , May 2024 29 th , May 2024		09:00 am to 11:30 am		Via Zoom	
Enrolment Links:	Available to book on SkillsForge from Tuesday 2 April 2024 . Click to log in and register: https://training.kcl.ac.uk/kcl/#/he/dev/eventDetails;;em,providerCode=LISS,providerOrgAlias=kcl,number=373,; Questions? Visit our Training FAQ here: Frequently Asked Questions - LISS DTP (liss-dtp.ac.uk)				

Course Description:

This course is designed for PhD students of the social sciences who wish to learn how to program using Python, a general-purpose programming language that is more and more used in research settings. The course introduces students to an Integrated Development Environment (IDE) interface and the basics of programming with Python. Each session covers a series of topics in the form of short lectures with interactive elements. All sessions finish with a self-test and exercise which ought to be completed before the next session. By the end of this course, students will have gained introductory-level programming skills in Python.

Course outline:

Session	Lecture topics
8 th May 2024 09:00 – 11:30	<ul style="list-style-type: none"> • Introduction to Python • Installing Python and an IDE • Basic features of an IDE interface • Data types and common operations • Assigning variables
15 th May 2024 09:00 – 11:30	<ul style="list-style-type: none"> • Lists and common list methods • Tuples and common tuple methods • Dictionaries and common dictionary methods • Importing packages, variables and data files
22 nd May 2024 09:00 – 11:30	<ul style="list-style-type: none"> • If statements • For loops • While loops • And / Or statements
29 th May 2024 09:00 – 11:30	<ul style="list-style-type: none"> • Functions • Objects and Classes • Data analysis and visualisation



London Interdisciplinary Social Science Doctoral Training Partnership

Advanced Research Methods in Social Sciences

Eligibility: You must be a PhD student or ESRC postdoctoral fellow at either King's College London, Queen Mary University of London, or Imperial College London, using social science methodologies, and be based in a department that does not already offer such training.

The course does not assume any prior programming knowledge.

Pre-course preparation: No pre-course preparation is necessary.

Nonetheless, here are some free online resources to explore at your leisure:

- [Python for Non-Programmers](#)
- [Python Beginners Guide](#)
- [Introductory Books](#)
- [Python Standard Library](#)
- [Python FAQs](#)

Number of students:

- Minimum number required to run: 5
- Maximum number of places available: 40