



Introduction to Python (S005)

Thursday, January 22 2026

Course location: Online (MSTeams)

Course Director: Dr. Mahdi Shafiee Kamalabad

E-mail: ms.summerschool@uu.nl

Time	Type	Description
09:00-12:15 CET	<ul style="list-style-type: none">- Introductions- Lecture- Computer lab exercises- Two short breaks	<p>1. Introduction and Python Overview</p> <ul style="list-style-type: none">• What is Python? (A Brief History of Python)• Why Choose Python?• What Can You Do With Python? <p>2. Installing Python:</p> <ul style="list-style-type: none">• Install Anaconda Distribution for Python (Guide them through the installation process).• Briefly Running Jupyter Notebook (Demonstrate how to open and run notebooks).• Exploring "No-Install" Online Options (E.g., Google Colab for cloud-based Python). <p>3. Running Python Code:</p> <ul style="list-style-type: none">• Text Editors vs Full IDEs.• Notebook Environments• Jupyter Notebook Overview (A quick tour of its interface, cells, and execution). <p>4. Python Coding 1: Coding Fundamentals:</p> <ul style="list-style-type: none">• Python Objects.• Python Data Structure Basics.• Python Comparison Operators.
12:15-13:05	Lunch break	



13:05-16:30	<ul style="list-style-type: none">- Lectures- Computer lab exercises- Two short breaks	<p>5. Python Coding 2</p> <ul style="list-style-type: none">• Python Statements.• Methods and Functions (Introduction to function creation, calling, and using built-in functions). <p>6. Introduction to Python Key Libraries</p> <ul style="list-style-type: none">• A Quick Tour in NumPy (Basics of numerical operations with arrays).• A Quick Tour in Pandas (Introduction to DataFrames for handling datasets).• A Quick Tour in Matplotlib (Basic data visualization).
16:30-17:00	More time for questions and to practice with computer lab exercises	