

Python Programmer



Learn how to become a Python Programmer

Python Introduction module – Price 200.00 €

Age: 15+

Schedule: Monday, Tuesday, Thursday

Outline:

- Intro to Python
- Types & Statements
- Variables, Assignment & Initialization
- Strings, Lists, Dictionaries, Numeric
- Control Flow, If - else statements
- Loops (For, While)
- Functions
- Arguments (Positional, Optional, *args, **kwargs)
- Problem solving
- Modules & Packages
- Scopes (Global, Local)
- Exceptions
- File Management
- Handling Input & Output

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Outline:

- Environment
- Intro to Classes
- Object Oriented Programming (Paradigm)
- Attributes & Methods
- Inheritance
- Special Methods
- List and Dictionary comprehension
- Generator Expressions
- Decorators
- Multiprocessing
- Structuring large programs
- Unit Testing
- Test Driven Development

Outline:

- Intro to web development (HTTP, HTTPS, STATUS • CODES ...)
- The Frontend Basics (HTML, CSS, JS) • MVT Software Architecture
- Routing and Views • Object Relational Mapping (Database Models)
- Jinja2 Templating
- Django channels
- Making a Simple Twitter App
- Django REST-ful API