

Book plan: Introduction to Python

Section	Subject	Content
Part 1 — Basic Notions		
Introduction	To programming To Python	
First program	Print Comments	<i>Explanation of the syllabus examples</i>
If statement	Logical operators Statements Control flow "if"	
Variables	Types Variables	Keyword "type()" Math exercises
Errors & Exceptions	Synthaxe	"try" & "except" On "/" or addition of an "int" to a "str"
Data Representation	Strings Lists Tuples Dictionaries Recursive data structures	Index, slices, operators + pattern-matching Matrix
Loops	For loop Iterators List comprehensions While loop	
Files	How to open Encoding Write Read	"with" statement, close function
Part 2 — Functional Programming		
Definitions	Functions Parameters	"def" optional or not, scope
Modules	Reuse functions Import Built-ins	Names, docstrings(PEP)
Advanced	Recursion Higher order Lambda Tests unitaires	Terminal Decorators

Part 3 — Objects		
Introduction	Objects Class Instances	"class" " __init__ " & " __str__ "
Characteristics	Privacy Static	Properties Meths (static,) class, instance Vars too
Advanced	Polymorphism Inheritance	"super"
Part 4 — Advanced matters		
Data structures	Linked lists Stacks Queues	
Useful adds	RegExp Parallel programming ...	Threads
Web	(Django ?)	
Appendices		
Installation	Python	Basic IDE
Best practices	Programming Python	PEP
Cheat sheets		
How to use VC	Introd System Best practices	(Git ?)
...		