

## Course

# Introduction to Python

January 13-17, 2020

Institut Pasteur de Tunis (IPT)

January 13 <sup>th</sup> , 2020 (Computer Room, Research and Training Building)		
	Session Intro/Variables/Datatypes/Logical Operation	Speakers
9:00-10:15	Programming and Python introduction	XXX, IP XXX, IP
10:15-10:45 Coffee break		
10:45-12:00	What is a variable a data type, review of the most common simple data type used in Python	XXX, IP XXX, IP
12:00-13:30 Lunch		
13:30-14:45	Practical: Do simple simple logical operation	XXX, IP XXX, IP
14:45-15:15 Coffee break		
15:15-16:30	Practical: Do simple simple logical operation (II)	XXX, IP XXX, IP

January 14 <sup>th</sup> , 2020 (Computer Room, Research and Training Building)		
	Session Function / Collection	Speakers
9:00-10:15	What is the purpose of a function	XXX, IP XXX, IP
10:15-10:45 Coffee break		

10:45-12:00	How a function works	XXX, IP XXX, IP
<b>12:00-13:30 Lunch</b>		
13:30-14:45	Practical: How to write your own function	XXX, IP XXX, IP
<b>14:45-15:15 Coffee break</b>		
15:15-16:30	Practical: How to write your own function (II)	XXX, IP XXX, IP

<b>January 15<sup>th</sup>, 2020</b>		
<b>(Computer Room, Research and Training Building)</b>		
	<b>Session Flow Control</b>	<b>Speakers</b>
9:00-10:15	How to modify your program execution flow in function of some conditions	XXX, IP XXX, IP
<b>10:15-10:45 Coffee break</b>		
10:45-12:00	How to modify your program execution flow in function of some conditions (II)	XXX, IP XXX, IP
<b>12:00-13:30 Lunch</b>		
13:30-14:45	Practical: How to modify your program execution flow in function of some conditions (III)	XXX, IP XXX, IP
<b>14:45-15:15 Coffee break</b>		
15:15-16:30	Practical: How to modify your program execution flow in function of some conditions (IV)	XXX, IP XXX, IP

<b>January 16<sup>th</sup>, 2020</b>		
<b>(Computer Room, Research and Training Building)</b>		
	<b>Session ID / Module / Object oriented</b>	<b>Speakers</b>

9:00-10:15	How to read / write files	XXX, IP XXX, IP
<b>10:15-10:45 Coffee break</b>		
10:45-12:00	Few words on code organization (module, package)	XXX, IP XXX, IP
<b>12:00-13:30 Lunch</b>		
13:30-14:45	Practical: The survival kit in the world of object programming	XXX, IP XXX, IP
<b>14:45-15:15 Coffee break</b>		
15:15-16:30	Practical: The survival kit in the world of object programming (II)	XXX, IP XXX, IP

<b>January 17<sup>th</sup>, 2020</b> <b>(Computer Room, Research and Training Building)</b>		
	<b>Session</b> <b>Jupyter / Pandas / Visualizations</b>	<b>Speakers</b>
9:00-10:15	Review of all concept seen previously	XXX, IP XXX, IP
<b>10:15-10:45 Coffee break</b>		
10:45-12:00	Used Python libraries as pandas, etc.	XXX, IP XXX, IP
<b>12:00-13:30 Lunch</b>		
13:30-14:45	Practical: Execute your code in a jupyter notebook	XXX, IP XXX, IP
<b>14:45-15:15 Coffee break</b>		
15:15-16:30	Practical: Execute your code in a jupyter notebook (II)	XXX, IP XXX, IP