Programming in Python - Session Plan

Theme	Topic	Duration in Minutes		Assignment No: Reference to Respective Assignment Guides	References
		Lecture	Hands-On / Assignments		
Introduction to Python	Introduction	0:20	NA	NA	**Videos:**
Python Basics	Basics	0:10	0:15	1	1. Python Programming - Learn Python in one video: https://www.youtube.com/watch?v=N4mEzFDjqtA
Python Data Variables & Operators	Data Variables and its types	0:10	0:20	2, 3 & 4	2. Installing Python & PyDev on Eclipse: https://www.youtube.com/watch?v=fAa80SpQJHo
	Operators	0:15	0:25	5, 6, 7 & 8	**Books:**
	id() and type() functions	0:05	0:15	9	•Head First Programming, Apress Publications
	Coding Standards	0:15	0:05	10	•Head First Python, Apress Publications
Control Structures	if else	0:10	0:20	11, 12	•Beginning Python, Apress Publications
	elif, Nested if	0:05	0:45	13, 14, 15 & 16	**E-Books:**
	Iteration Control structures	0:15	0:20	17	http://www.diveintopython3.net/
	Break, Continue & Pass	0:10	0:20	18, 19 & 20	**Tutorials:**
Data Structures	Strings	0:15	1:40	21, 22, 23, 24, 25, 26 & 27	http://www.learnpython.org/
	Tuples	0:10	0:25	28 & 29	https://docs.python.org/2/tutorial/index.html
	Lists	0:20	0:55	30, 31, 32 & 33	http://en.wikibooks.org/wiki/Non-Programmer%27s_Tutorial_for_Python_3/Intro
	Sets & Dictionary	0:15	1:05	34, 35, 36 & 37	https://developers.google.com/edu/python/introduction
Functions	Defining & Calling a function	0:10	1:15	38, 39, 40a & 40b	**Quiz / Recap Questions**
	Passing arguments to functions - Mutable & Immutable Data Types	0:20			http://www.mypythonquiz.com/list.php
	Different types of arguments	0:20			https://techmyway.wordpress.com/2011/06/17/python-interview-questions/
	Recursion	0:05			http://www.sanfoundry.com/python-exam-questions-answers/
	Scope of variables	0:10			
	Introdcution to Python Tutor	0:10	NA	NA	
Standard Library	Math Module	0:05	NA	NA	
	String Module	0:10	0:10	41	
	List Module	0:10	1:00	42, 43, 44, 45 & 46	
	Date & Time Module	0:05	NA	NA	
Regular Expressions	Regular Expresion: match, search, replace	0:10	0:55	47, 48, 49 & 50	
Modules and Package	Modules	0:05	NA	NA	
	Package	0:10			

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File Operations	Open, Close, Write, Read	0:30	NA	NA	
Errors and Exception Handling	Errors	0:05	NA	NA	
	try…except….else	0:10			
	try…except	0:05			
	try…finally	0:05			
		4.0 - 6.0	**7:00 - 10:30**	**50**	