

Python for Data Science

Session No#	Session mode	Topic	Week end - Day #	Duration Hrs
1	EL-Async	<ul style="list-style-type: none"> • Introduction to Python • Setup Python Environment • Data Types and Variables in Python • Input and Output Operations 	Before Sync Session	3
2	FC -Sync	Familiarization with Python Programming. Hands-on with data types, variables, input, and output operations.	1-1	3
3	MS -Sync	Assignment 1: Develop a python code to perform specific operations using variables, data types, input, and output operations.	1-2	3
4	MS-Async	Additional Practice-Complete all the pending works	Before Sync Session	2.5
5	EL-Async	<ul style="list-style-type: none"> • Functions in Python • Conditional Statements in Python • Basic Data Processing with Pandas 	Before Sync Session	3
6	FC- Sync	Implementing functions in Python, and basic data processing using Pandas.	1-3	3
7	MS -Sync	Assignment 2: Develop a python code to demonstrate the use of functions and basic data processing using Pandas.	2-4	3
8	MS-Async	Additional Practice-Complete all the pending works	Before Sync Session	2.5
9	EL-Async	<ul style="list-style-type: none"> • Understand the business value and foundational components of Microsoft Power Platform. • Understand the Core components of Power Automate 	Before Sync Session	3
10	FC- Sync	Maximizing Operational Efficiency - eduCLaaS Case Study 1 Assignment Brief on Strategic Benefits of Power Platform	2-5	3
11	MS- Sync	Peer-to-Peer Review of Assignment - Strategic Benefits of Power Platform	2-6	3
12	MS-Async	Additional Practice-Complete all the pending works	Before Sync Session	2.5
13	EL-Async	<ul style="list-style-type: none"> • Understand Condition and Control Structures in Power Automate Workflows 	Before Sync Session	3
14	FC -Sync	Power Automate Core Components walkthrough with eduCLaaS Case Study 1	3-7	3

		Assignment Brief on Core components of Power Automate using Templates		
15	MS -Sync	Peer to Peer Review of Assignment – Workflow automation with Power Automate Templates	3-8	3
16	MS-Async	Additional Practice-Complete all the pending works	Before Sync Session	2.5
17	EL-Async	<ul style="list-style-type: none"> Understand the full potential of Power Automate with Excel, SharePoint List and Document Generation Understand how to build Apps with the Dataverse 	Before Sync Session	3
18	FC- Sync	Dynamic design making within the workflow featuring eduCLaaS Case Study 1 Assignment Brief on how to develop dynamic decision-making with conditional branches for Case Study 1	3-9	3
19	MS -Sync	Peer to Peer Review of assignment - Dynamic decision-making with conditional branches for Case Study 1	4-10	3
20	MS-Async	Additional Practice-Complete all the pending works	Before Sync Session	2.5
21	EL-Async	<ul style="list-style-type: none"> Getting started with Microsoft Canvas Apps 	Before Sync Session	3
22	FC- Sync	Automated Tracking List featuring eduCLaaS Case Study 1 Assignment Brief for the Automation of Document Generation and Tracking of Status using a SharePoint List or Excel and how to design and build a Canvas app	4-11	3
23	MS -Sync	Peer to Peer Review of Assignment - Automate Document Generation and Tracking of approval status for Case Study 1 Peer to Peer Review of Assignment – Build a Canvas app	4-12	3
24	MS-Async	Additional Practice-Complete all the pending works	Before Sync Session	2.5
25	MS -Async	Completion of the pending assignments	Before Assessments	3
26	MS-Async	Preparation of the Assignment report for the summative assessments		3
27	MS -Async	Additional Practice-Complete all the pending works	Before Sync Session	5
28	AS-Sync	Summative Assessment (Per learner)	5-13	30 min

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