

"Techno-Social Excellence"

Marathwada Mitramandal's Institute of Technology

Lohgaon, Pune - 411047

Accredited with "A" Grade by NAAC

"Excellence in the field of AI & DS"

Department of Artificial Intelligence & Data Science

Academic Year:2022-2023

Sem-II

Course Curriculum and Schedule of Add-on Course on "Let us Python for Data Analytics"

Module No	Name of the Module	Topic to be cover under module	Name of the faculty	Date	Time	Hours
Module-1	Python Basics	Identifiers and Keywords, Python Types. Basic Types	Mr.Ashish K. Bhise	8/3/2023	3:30 pm-4:30 pm	1
		Integer and Float Ranges, Variable Types and Assignment		9/3/2023	3:30 pm-4:30 pm	1
		Arithmetic Operators, Operation Nuances		10/3/2023	3:30 pm-5:00 pm	1.5
		Precedence and Associativity, Conversions		11/3/2023	3:30 pm-5:00 pm	1.5
		Built-in-Functions. Built-in-Modules		13/03/2023	3:30 pm-5:00 pm	1.5
		Python Type Jargon, Comments and Indentation, Multi Lining		14/03/2023	3:30 pm-5:00 pm	1.5
		Multi-lining, Classes and Objects		15/03/2023	3:30 pm-5:00 pm	1.5
Module-2	Strings, Decision Control Instructions	What are strings?, Accessing String Elements	Mr. Yogesh B. Dongare	16/03/2023	3:30 pm-4:30 pm	1
		String Properties, Built-in-Functions, String Methods		17/03/2023	3:30 pm-4:30 pm	1
		String Conversions, String Comparisons		18/03/2023	3:30 pm -5:00 pm	1.5
		Decision control instructions, Logical operator		20/03/2023	3:30 pm -5:00 pm	1.5
		Conditional Expressions, Receiving Input		21/03/2023	3:30 pm -5:00 pm	1.5
		Repetition Control Instruction, Usage of While Loop		23/03/2023	3:30 pm -5:00 pm	1.5
		Usage of for loop, break and continue, Else Block of a Loop		24/03/2023	3:30 pm -5:00 pm	1.5

Module No	Name of the Module	Topic to be cover under module	Name of the faculty	Date	Time	Hours
Module-3	Lists, Tuples, Sets	What are lists?, Accessing List Elements, Looping in Lists	Mr. Nisar S. Shaikh	25/03/2023	3:30 pm-5:30 pm	1.5
		Basic List Operations, Using Built-in Functions on Lists, List Methods		27/03/2023	3:30 pm-5:30 pm	1.5
		What are Tuples?, Accessing Tuple Elements		28/03/2023	3:30 pm-5:00 pm	1.5
		Looping in Tuples, Basic Tuple Operations, Using Built-in Functions on Tuples, Tuple Methods		29/03/2023	3:30 pm-5:00 pm	1.5
		What are Sets?, Accessing Set Elements, Looping in Sets, Basic set Operations		31/03/2023	3:30 pm-5:00 pm	1.5
		Using Built-in Functions on Sets, Set Methods		1/3/2023	3:30 pm-5:00 pm	1.5
		Mathematical Set Operations		3/3/2023	3:30 pm-5:00 pm	1.5
		Dictionaries		What are Dictionaries?, Accessing Dictionary Elements?	Mr. Sanjay A. Agrawal	5/4/2023
	Looping in Dictionaries, Basic Dictionary operations, Using Built-in functions on Dictionaries		6/4/2023	3:30 pm-5:00 pm		1.5
	Module-4	Pandas & Data Visualization	Pandas basics, Indexing and selecting data	Mrs. Rucha A. Agrawal	8/4/2023	3:30 pm-5:00 pm
Merge and append, Grouping and summerizing data frame			10/4/2023		3:30 pm -5:00 pm	1.5
Components of plot, Data visualization toolkit			11/4/2023		3:30 pm -5:00 pm	1.5
Functionalities of plots, graphs, pie-charts			12/4/2023		3:30 pm-5:00 pm	1.5
Histogram, Plotting distribution across categories			13/4/2023		3:30 pm-5:00 pm	1.5
					Total Hrs	40



Mrs. R. A. Agrawal
Add-on Course Co-ordinator



Mr. S. A. Agrawal
HOD