



"Techno – Social Excellence"  
 MARATHWADA MITRA MANDAL'S  
 INSTITUTE OF TECHNOLOGY (MMIT)  
 Lohgaon, Pune-411047

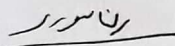
"Excellence in the field of AI & DS"

**Department of AI & DS**

**Course Curriculum and Schedule of "Python for Data Science" Add on Course 2022**

Module No	Name of the Module	Topic to be cover under module	Name of the faculty	Date	Time	Hours
Module-1	Python Introduction	Native Data Types	Mr. Ashish K. Bhise	3/10/2022	3:30 pm-4:30 pm	1
		Key Python Functions		4/10/2022	3:30 pm -5:00 pm	1.5
		Slicing Operations		8/10/2022	1:00 pm-1:30 pm	1
		Importing Packages Date time		10/10/2022	3:30 pm-5:00 pm	1.5
		Package sub package, Methods and attributes		11/10/2022	3:30 pm-5:00 pm	1.5
Module-2	Python Data structures and Control system	Data structures introductions	Mr. Sanjay A. Agrawal	12/10/2022	3:30 pm-5:00 pm	1.5
		List, List Operations		13/10/2022	3:30 pm -5:00 pm	1.5
		Tuple		14/10/2022	3:30 pm -5:00 pm	1.5
		Sets		15/10/2022	9:00 am -10:30 am	1.5
		Dictionaries	Mr. Ashish K. Bhise	17/10/2022	3:30 pm -5:00 pm	1.5
		Looping through iterable data sets		18/10/2022	3:30 pm-5:00 pm	1.5
		IF-Conditional Statement				
		For-Loop				
User defined functions						
Module-3	Numpy	Introduction	Mrs. Rucha A. Agrawal	1/11/2022	3:30 pm-4:30 pm	1
		Numpy Basics				
		Creating Numpy Arrays		2/11/2022	3:30 pm-5:00 pm	1.5
		Structure and content of arrays				
		Subset		3/11/2022	3:30 pm-4:30 pm	1
		Slice				
		Index and iterate through arrays		4/11/2022	3:30 pm-5:00 pm	1.5
		Multidimensional Array				
Python Lists Vs Numpy Array	5/11/2022	9:00 am -10:30 am	1.5			
	7/11/2022	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-4	Pandas	Pandas basics	Mr. Nisar S. Shaikh	9/11/2022	3:30 pm-5:00 pm	1.5
		Indexing and selecting data		10/11/2022	3:30 pm -5:00 pm	1.5
		Merge and append		11/11/2022	3:30 pm-4:30 pm	1
		Grouping and summerizing data frame		12/11/2022	9:00 am -10:30 am	1.5
		Loading the data, dataframes, series, CRUD operations, splitting the data, etc.		14/11/2022	3:30 pm-5:00 pm	1.5
		and Handling, VIF, Bias-variance trade-off, cross validation techniques, train-test split, etc.		15/11/2022	3:30 pm-5:00 pm	1.5
Module-5	Visualization	Components of plot	Mr. Yogesh K. Mali	16/11/2022	3:30 pm-4:30 pm	1
		Data visualization toolkit		17/11/2022	3:30 pm -5:00 pm	1.5
		functionalities of plots		18/11/2022	3:30 pm-4:30 pm	1
		Bar charts, scatter plots, count plots, line plots		19/11/2022	9:00 am -10:30 am	1.5
		Histogram, pie charts, donut charts, etc, with Python		21/11/2022	3:30 pm-5:00 pm	1.5
		Plotting distribution across categories		22/11/2022	3:30 pm-5:00 pm	1.5
					<b>Total Hours</b>	<b>40</b>

  
 Mr. N. S. Shaikh  
 Add on Course Co-ordinator

  
 Mr. S. A. Agrawal  
 HOD