college Name: Saranathan college of Engineeirng		nathan college of Engineeirng	Cape Gemini Big Dat		Start Date	08.01.2024	
	ame: Mr.Vijaya Murugan				End Date	31.01.20	
.No	Module	Topic	Subtopic	Methodology	Duration (hh:		
		<u> </u>	- 3 Formative Assessment - (12		mm) 120	Date	Signatur
	1	are 1 Tyenon Analytics	Python introduction	Lecture, Discussion	2	Date	Signatur
		Python Introduction	Installing Anaconda, Variables and Constants, Datatypes	Lecture, Discussion, Hands on	2		
			Array implementation, File Methods	Lecture, Discussion, Hands on	2		
			Keywords and Identifiers	Lecture, Discussion, Hands on	2		
			Control Structures and Loops	Lecture, Discussion, Hands on	2		
			List, Tuples and its operations	Lecture, Discussion, Hands on	2		
		Python Data Structures	Sets, Dictionaries and its operations	Lecture, Discussion, Hands on	2		
		Tython Bata Stractures	String and String manipulation functions	Lecture, Discussion, Hands on	2		
			Python Directory and File management system Global, Local and Non local	Lecture, Discussion, Hands on Lecture, Discussion,	2		
		Python Scope	variables	Hands on	2		
	Python		Global Keywords and Namespaces	Hands on	2		
	Fundame ntals	OOPS Concepts in python	Classes and Objects Inheritance and Multiple	Lecture, Discussion, Hands on Lecture, Discussion,	2		
			Inheritance Inheritance Function and Operator	Hands on Lecture, Discussion,	2		
			Overloading. Input Output and Import	Hands on Lecture, Discussion,	2		
		File Handling in python	operations	Hands on Lecture, Discussion,	2		
			Read and Write operations in file	Hands on Lecture, Discussion,	2		
			Shallow copy and Deep copy Iterators, Generators and	Hands on Lecture, Discussion,	2		
		Special functions	Decorators	Hands on Lecture, Discussion,	2		
			Recursion and Lamda functions	Hands on Lecture, Discussion,	2		
		xception Handling in pytho	Regular expression	Hands on	2		
			Errors and Exceptions, Try, Except and Finally, User Defined Exceptions	Lecture, Discussion, Hands on	2		
			Stage 1 - Revision		1		
			1				
		Numpy	Introduction to NUMPY and its basic operations	Lecture, Discussion, Hands on	4		
			Numpy mathematical functions Advance indexing, iterating over	Lecture, Discussion, Hands on Lecture, Discussion,	5		
			Array Joint, Split, Search, Sort and	Hands on Lecture, Discussion,	5		
			Filter	Hands on Lecture, Discussion,	5		
			Stacking and Broadcasting Series, DataFrames and Read	Hands on Lecture,	5		
			Files using pandas	Discussion, Hands on	5		
			Data cleaning, Working with missing data, Boolean Indexing and Universal functions	Lecture, Discussion,Hands on	5		
			Groupby, Working with Text data, Creating Pandas Series, Merging, Joining, Concatenation	Lecture, Discussion,Hands on	5		

M <i>a</i>		Piechart, Seaborn and its styles and Scipy Stage 2 - Revision	Lecture, Discussion,Hands on	5 1	
Ma		Piechart, Seaborn and its styles		5	
Ма	acpioc, Scaboili and Scip				
	Matplot, Seaborn and Scip	Plot Lines, Multiples, Opacity, Bar plots and its types	Lecture, Discussion,Hands on	5	
		MATPLOT LIB, Subplots and Legends	Lecture, Discussion,Hands on	5	
		Sampling and Types of Sampling Techniques, Types of Probability Sampling	Lecture, Discussion,Hands on	5	
		Categories, Vectorization in Python, Statistics and probability concepts for data science	Lecture, Discussion,Hands on	5	
Analytics		Selecting Random samples, Duplicate Data, Query method()	Lecture, Discussion,Hands on	5	
Python Analytics		Working with Date and Time using Pandas, Working with pandas XIsx Writer	Lecture, Discussion,Hands on	5	