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FACULTY OF MANAGEMENT STUDIES

Programme	Bachelor of Business Administration			Branch / Spec.		Business Analytics	
Semester	IV			Version		1.0.0.0	
Effective from Academic Year		2025-26		Effective for the Batch Admitted in			July 2024
Subject Code	BBUA204		Subject Name		Dealing With Data Using Python		

Teaching Scheme						Examination Scheme (Marks)			
(Per week)	Lecture (DT)		Practical (Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	02	00	02	00	04	Theory	25	25	50
Hours	02	00	04	00	06	Practical	25	25	50

Pre-requisite:

None

Objective:

Define and demonstrate the fundamental programming concepts of Python.

Write clean and effective Python code.

Use inbuilt modules and also create custom module.

Use Data visualization utility.

Learning Outcome/Course Outcome:

On successful completion of the course, the students will be able to:

CO1- Will be able to define and demonstrate the fundamental programming concepts of Python.

CO2- Able to implement various data structure in Python application.

CO3- Students will be able to use string and file manipulation functions.

CO4- Students will be able to use data visualization utility.

Mapping of PO-CO and PSO-CO:

Course Outcome (CO) No.	PO-CO Mapping								PSO-CO Mapping					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	1	1	2	1	1	3	1	3	2	1	2	1	1
CO2	3	1	1	2	1	1	3	1	3	2	1	2	1	1
CO3	3	1	1	2	1	1	3	1	3	2	1	2	1	1
CO4	3	1	1	2	1	1	3	3	3	2	2	3	1	1

Theory Syllabus

Unit	Content	Hrs.
1	**Introduction to Python** Python Introduction, Python Install, Python Syntax, Python Variables, Python Data Types, Python Numbers, Python Functions, Control and Loop Statements, Python Operators.	15
2	**Data Structures** Python Lists, Python Tuples, Python Sets, Python Dictionaries.	15
3	**String and File Handling** Python Strings, Python - Slicing Strings, Python - Modify Strings, Python - Format – Strings, Python - String Methods, File Handling, Python File Open, Python Write/ Create Files, Python Delete File	15
4	**Data Visualization** Python Matplotlib, What is Matplotlib, Import Matplotlib, Matplotlib Line, Matplotlib Labels and Title, Matplotlib Adding Grid Lines, Matplotlib Bars, Matplotlib Histograms, Matplotlib Pie Charts	15
	Exam: Practical 100%	

Text Book:

A Byte of Python By Swaroop C H

Reference Books:

Fundamental of Python: First Programs By Kenneth A. Lambert

Online Resource:	
	https://www.udemy.com/topic/mern-stack/
	https://www.udemy.com/topic/mern-stack/