



C. U. SHAH UNIVERSITY, WADHWAN CITY.

Faculty of: **Computer Science**

Course: **Master of Computer Applications**

Semester: **III**

Subject Code: **5CS03CDA1 (Elective – II)**

Subject Name: **Data Analytics using Python Libraries**

Sr. No	Subject Code	Subject Name	Teaching hours/ Week			Credit hours	Credit Points	Evaluation Scheme/ Semester									
			Th	Tu	Pr			Theory				Practical				Total	
								Internal Assessment		End Semester Exams		Internal Assessment		End Semester Exams			
								Marks	Duration	Marks	Duration	Marks	Duration	Marks	Duration		
3	5CS03CDA1	Data Analytics using Python Libraries	2	--	2	4	3	10	1	70	2½	20	1	--	--	100	

Objectives:

- The objective of this subject is to learn various python libraries.

Prerequisite:

- Basic knowledge of python language is required.

Course Outline:

Sr. No.	Course Content	Hrs.
1	TensorFlow Introduction Working of TensorFlow Library Tensor processing unit Features usages	4
2	PyTorch Introduction Working of PyTorch Library Features usages	5
3	Theano Introduction Working of Theano Library Features usages	5

4	OpenCV Introduction, Applications Working of OpenCV Library Features usages	5
5	Numpy Introduction, Applications Working of Numpy Library Features usages	5
	TOTAL	24

REFERENCE BOOKS:

- The Python 3 Standard Library by Example, Doug Hellmann
- Python Standard Library, Fredrik Lundh
- Python for Data Analysis, Wes McKinney