

**INSTITUTE OF AERONAUTICAL ENGINEERING**

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)**ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT**

Name of the faculty:	Ms. J SIRISHA	Department:	Computer Science and Engineering (Data Science)
Regulation:	IARE - UG20	Batch:	2021-2025
Course Name:	Data Wrangling with Python	Course Code:	ACDC05
Semester:	V	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Outline the concept of and the steps in data wrangling process and the python basics necessary for implementing the data wrangling	0.90	2.10	1.1	Not Attained
CO2	Summarize the parsing approaches of the Excel as well as PDF Files for devising techniques to deal with uncommon file types	0.90	2.10	1.1	Not Attained
CO3	Distinguish between MySQL/PostgreSQL and NoSQL for storing and acquiring of data to and from the relational and the non-relational databases respectively	0.90	2.10	1.1	Not Attained
CO4	Explain the operations involved in formatting and cleaning the data using Python for subsequent data analysis	0.90	2.00	1.1	Not Attained
CO5	Make use of python libraries for identifying outliers and correlations in the data, and visualizing the same efficiently	1.60	2.10	1.7	Not Attained
CO6	Choose appropriate method of web scraping and crawling based on web site model for acquiring and storing data from world web within python framework	0.90	2.10	1.1	Not Attained

Action Taken Report: (To be filled by the concerned faculty / course coordinator)

CO1:

1. To bridge the gap, start by focusing on foundational Python skills including Pandas, NumPy, and Matplotlib for data manipulation and visualization.

CO2: To address challenges in parsing uncommon file types like Excel and PDF, focus on researching and implementing specialized libraries or APIs tailoring parsing techniques such as using OCR for PDFs or leveraging advanced Excel parsing libraries for complex structure.

CO3: Designed for structured data, offer strong consistency, and adhere to a predefined schema, suitable for applications requiring complex transactional processing.

CO4: Practice extensively with datasets, seeking guidance from tutorials, documentation, and practical projects to refine your skills efficiently.

CO5: To efficiently identify outliers and correlations in the data using Python, utilize libraries such as Pandas and Seaborn.

CO6: Continuously refining scraping approach, you can improve your chances of successfully acquiring and storing data from the World Wide Web with the right tools and techniques.

Course Coordinator

Mentor

Head of the Department

**HEAD OF THE DEPARTMENT
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