FACULTY OF COMPUTER APPLICATIONS
M.Sc. (Data Science)

- **Sem.** : 3
- **Subject Code** : 05MD0308
- **Subject** : Mini Project - 2
- **Course Objectives** :
  1. To apply programming knowledge for solving Industrial (or society or research) problems.
  2. To collect, analyze requirement, plan, schedule, and monitor the project
  3. to learn the phases of design, coding, and testing of a large project cohesively.
  4. To learn about documentation of project

- **Prerequisites** : Basic knowledge of Python and machine learning

Guidelines:

- The project definition should be finalized internally at the beginning of semester within 10 working days and it should be any topic related to Data Science.
- It is recommended that the team should be maximum of 2 students.
- Project plan along with the division of work amongst teammates should have been prepared and got approved within 15 days of the starting of semester from the internal guide or project coordinator.
- It is recommended to follow different software engineering framework activities for the project development like requirement collection, designing model, coding, testing etc.
- Coding standards should be followed meticulously. At the minimum, the code should be self-documented, modular, and should use the meaningful naming convention.
- It is advisable that object-oriented methodology is used with reusability of classes and code, etc.
- A complete code is mandatory to present at the end of semester for evaluation. Students may be asked to write the code related to the project during examination.

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Course Outcomes:

- Doing the project will enable the student to go through rich experience in developing projects & application of programming knowledge.
- Such an experience will include encountering various technical issues, finding sources to resolve the issues and finally finding the solution of all these issues satisfactorily.
- Thinking analytically, analyzing and synthesizing requirements and complicated information for getting a good comprehension of the solution methodology to be adopted.
- Working with teammates and generating substantial output of the efforts.
- It will prepare the students for analyzing and programming for industrial problems and large projects working in the future.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	H	H	H		H	L		L	M	L	H
CO2	H	M	M	L	M	L	L	L	M	L	H
CO3	H	H	M	L	M	L	L	L	M	L	H
CO4	L			H		M	M		M		L
CO5	H	H	M	M	H	L	L	L	H	L	H

Sample Projects for Reference:

1. Housing Prices Prediction Project
2. Stock Price Prediction using Machine Learning
3. Personality Prediction Project
4. Customer Segmentation using Machine Learning
5. Carbonify Image with Machine Learning

Web references :

1. www.dataquest.io
2. www.datacamp.com
3. www.kaggle.com
4. www.geeksforgeeks.org