Program: MX-Data Science & Analytics
Code: MATH 619
Title: Project
Prerequisite: Graduate Standing
Instructor: Dr. Boubaker Smii
E-mail: boubaker@kfupm.edu.sa

Description: A graduate student will arrange with a faculty member to conduct an industrial research project related to the program field. Subsequently the students shall acquire skills and gain experiences in developing and running actual industry-based project. This project culminates in the writing of a technical report, and an oral technical presentation in front of a board of professors and industry experts.
Prerequisite: Graduate Standing

Objective: The main objective of the project is to
- Discuss industry-oriented applications
- Integrate the knowledge, skills, and competencies of the program into a practical project
- Provide students the opportunity to team up with industry professionals to develop their professional skills and knowledge

Learning Outcomes: Upon completion of the project, students should be able to:
- Discuss the steps needed to design computational-based solutions to a practical problem
- Apply the required computational skills to solve the problems
- Develop the ability and confidence necessary for solving mathematical problems.
- Assess and evaluate the proposed solution/design.

Supplementary Material:
1. IBM SPSS

Attendance: Attendance is a University Requirement. A student must attend all scheduled meetings. A **warning** will be assigned to a student who misses 2 presentations with no official, KFUPM excuse.

Academic Integrity: All KFUPM policies regarding ethics apply to this course.

Rules, regulations and implementation plan of the project

1- Each group of <u>2-3 students</u> should come up with a project title and project idea.
2- The project should be of a practical nature and directly related to industry.
3- Students are required to indicate the names of a potential academic advisor and industrial advisor (if any with CV). Having an industry expert as co-supervisor is recommended.
4- As part of the assessment method, a short report (5-6 pages) describing the progress and the encountered difficulties by the student should be submitted to the advisor bi-weekly along with a Power-Point presentation.
5- Poster session at <u>Math Department</u> should be delivered on **May 5, 2025** and each group should be present from **1 pm** to **4 pm** to answer the questions of a scientific committee.
6- Final report is required, and is part of the assessment.
7- Presentation is required in front of the advisor and at least two others (faculty members or external industry experts, to be selected by the advisor).

8- Student is given letter grade. The letter grade will be based on the short reports, the presentations, the final report and the oral examination during the presentation.

9- Grade is assigned by the advisor, not by the committee.

10-   Poster session at the beginning of the next year must be delivered.(Location and date will be

arranged by CGIS).

11-During the project term, the students are strongly encouraged to follow an IBM course related to their project and get a certification for the course.

Grading Policy:
   1. Student is given letter grade in the project course.
   2. Grade of project is assigned by the project supervisor not committee or co-advisor.

Progress report+ presentation (10 each)

Final report+ Presentation (40)