

King Fahd University of Petroleum and Minerals
Department of Mathematics & Statistics
MATH 619 Syllabus, Term 261

Program: MSC-Data Science & Analytics

Code: MATH 619

Title: Project

Prerequisite: Graduate Standing

Instructor: Dr. Boubaker Smii

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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 student 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 from KFUPM and an 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 bi-weekly to the advisor along with a Power-Point presentation.
- 5- Poster session at Math Department should be delivered during the last week of the second semester, and each student 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- Grades of the progress reports and Final report are assigned by the academic advisor.
- 8- Grade of the presentation (Poster session) will be assigned by a scientific committee.
- 9- Student is given a letter grade. The letter grade will be based on the short reports, the presentations, the final report and the oral examination during the presentation and will be assigned by the instructor.

Grading Policy:

Progress reports: 50 %

Final Report (20 %)+ Final presentation (30 %)