MECH 4366: Principles of Engineering Design and MECH 4366 Senior Design, Fall 2023

EV_FSAE Formula Team

CRN: 13944 & 13057

Credit Hours: 3.0

Faculty Name: Methaq S Abed and Joel Quintana

Office Location: Engineering Building. A104

Email: msabed@utep.edu

Classroom: Liberal Arts, 210, from 1:30 to 2:50 TR

Starting Date: 08/28/2023

End Date: 12/07/2023

Description:

This course is 3.0 credit hours and is intended to assess the type of work assigned during the semester, ensure that the students learn more engineering skills, and award credits for the completed design components. We can list the benefits that the students can gain more knowledge in certain areas of engineering or a combination of more than one area.

- Solid Mechanics Area
- Thermal-fluid Area
- Electro-Mechanical Area

Students will learn key principles of engineering and gain confidence working in interdisciplinary teams.

The EV formula team is divided into sub-teams as listed below:

- Mechanical and Testing Team
- Manufacturing team
- Accumulator- Cooling Team
- BSM Team

Required documents/ tasks to submit are:

1- Submit a monthly progress report.
2- Attend the PDR meeting for the entire team.
3- Attend/ participate in the final design presentation.
4- Write a recommendation for the next step in the design/ or if there would be a required revision.
5- Submit Peer-to-Peer evaluation.

By enrolling in this project, individuals will acquire a thorough understanding of basic engineering concepts and cultivate a strong sense of assurance when it comes to working alongside professionals from diverse fields.