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| **MECT410 –Introduction to Capstone Design** | | | | | |
| **Eastern Mediterranean University**  **Faculty of Engineering** | | | | | |
| **Department:**  Mechanical Engineering | | | | | |
| **Program Name:**  **Mechatronics Engineering** | | **Program Code: 2A** | | | |
| **Course Code:**  MENG410 | **Course Title:**  Capstone Team Project | | **Credits:**  3 Cr | | **Year/Semester:**  2018-2019 Fall |
| Engineering or Area Core  Engineering Course offered by other programs  Engineering or Area Elective  Mathematics and Basic Sciences  General Education | | | | | |
| **Prerequisite(s):**  (i) Student should have completed 100 credits to be eligible for taking MECT 410.  (ii) Supervisiors should provide pre-requisitie courses for the project in the Capstone Team Project Proposal form. Any student, who is intending to take that project, should satisfy the pre-requisite courses determined by the project supervisor. | | | | | |
| **Catalog Description:**  The course aims to prepare the senior year students for their capstone design projects, and to provide guidance with the selection of their project advisors, topics and teams The students are introduced to the basic features of the Capstone Design process, elements of a Capstone Project Report and written oral presentation techniques. | | | | | |
| **Instructor Name:** All Faculty Members | | **Office No.:** | | **Office Tel:** | |
| **Course Web Page:** http://me.emu.edu.tr | | | | | |
| **Textbook(s):** | | | | | |
| **Indicative Basic Reading List :** | | | | | |
| **Topics Covered and Class Schedule:**   |  |  | | --- | --- | | Week 1-16 | Website  Report Writing  Chapter1- Introduction  Chapter2- Literature Review  Chapter3- Design and Proposed Manufacturing  References  Appendices  Standards | | | | | | |

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| **Lecture and Tutorial Learning Outcome** | | **Student Outcomes** | **Performed Assessments and Percentage** |
| * Learn how to establish team and team work * Learning how to deal with a design problem * making detailed research about certain topics * Learning the importance of Standards and applications * Learning the planning stages of design procedure | | **a, c, d, e, f, g, h, i, j, k** | **Project Report 100%** |
| **Lab. Experiment Title and Lab. Equipment Used** | **Lab Learning Outcome** | **Student Outcomes** | **Performed Assessments and Percentage** |
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**Contribution of Course to Criterion 5**

Mathematics & Basic Science : 0

Engineering Sciences and Design : 1

General Education : 0

**Important Notes:**

University rules and regulations are applied to this course.

**Course Rules and Regulations:**

1. Each Capstone Team group must have maximum 5 and minimum 4 students.
2. The projects must meet most of the Economic, Availability, Environmental, Sustainability, Manufacturability, Ethical, Social, Political, Health and Safety, Constraints etc.
3. The relevant standards (like ASTM, ANSI, ASME, ASHRAE, TS-EN etc) must be followed during the course of the project and must be referred to in the annexures in the report.
4. Website explaining the Project Team, Scope, Objectives, and highlighting the Economic, Availability, Manufacturing, Ethical, Social, Political Constraints etc should be ready by the ***Third Week*** of the semester. The ***website*** should be regularly updated by the project team on weekly basis.
5. The progress should be demonstrated and weekly updated on the website using a ***Gantt Chart***. The progress will be monitored by the supervisor and the coordinator.
6. Soft copies of the DRAFT REPORT should be submitted to the Supervisor for evaluation before the ***start of Mid Term Exams***.
7. Soft copies of the FINAL REPORT should be submitted to the Supervisor for evaluation ***2 Weeks before the Start of Final Exams***.
8. Each part of the report should be checked by the supervisor for the format, plagiarism and all the necessary requirements before the submission to the coordinator.
9. Soft copies of the FINAL REPORT should be submitted to the Coordinator for evaluation ***1 Week before the Start of Final Exams***.
10. **Deadline for submissions will have no extensions.**
11. For the FINAL REPORTS, 1 to 5 days late, a penalty of 10% (of the overall evaluation) per day will be penalized.
12. Students who submit their reports after 5 days will receive a grade of F.
13. A plagiarized report with more than 20% plagiarism will receive a grade of F.