

MEE 482
SENIOR MECHANICAL ENGINEERING DESIGN PROJECT

Course Credit: 3 hours

Prerequisites: MEE 481.

Instructors: Dr. Simon Song, email: smsong@ceet.niu.edu
Office Hours: T, Th 2-3 pm at Room 226A

Dr. Milivoje Kostic, email: kostic@ceet.niu.edu
Office Hours: Mo 9-10; We 2-3, Fr 9-10, and by appointments in EB 208

Reference book: The Mechanical Design Process, by David G. Ullman McGraw Hill, 1992

Class Meetings: T, Th 9:30-10:45 am at EB 241

Week 1 - 3: Project topic review and revision; project group formulation with 2-4 students per group.

Week 4 - 7: Group weekly presentation

Week 8: Mid-term presentation: each group gives a 15 minutes presentation.

Week 9 - 13: Group weekly presentation

Week 14 - 15: Final presentation.

Group Meetings: Each group should elect one group leader. Each group must have at least one group meeting per week among the group members and one group meeting per week with the advisor.

Content: Application of engineering principles and design methodologies in a group engineering design project.

Grading:

Weekly presentations, reports	20%
Mid-term presentations	10%
Final presentations	20%
Group project report, prototype	50%

1. Each student should document their progress and submit an individual, weekly report to the instructor through the group leader.
2. At the end of semester, every student will evaluate the performances of each member of his/her group.
3. The group project report must be well prepared and should be typed and bounded with the following components: title page, summary, acknowledgement, table of contents, list of figures, list of tables, chapters, bibliography, appendix. The chapters should include introduction, theoretical background, analysis, design, etc., conclusion.
4. All projects must participate in the College's presentation.