

IME 391/392 Special Problems in Industrial Engineering (Junior Project)

Designation: Required

Catalog Data: IME391/392 Special Problems in Industrial Engineering (1-3)
Independent study and seminar work under the close faculty supervision. Discussion of advanced topics in preparation for graduate work. (Independent Study) Pre: Junior standing and permission of chairperson.

Textbook:

None specified. Directed reading may be required.

Prerequisites by Topic:

1. Junior standing

Course Objectives:

Students completing this course will have:

Objective	Link to Curriculum Objective
1. Experience of undertaking a team or individual project involving basic research or industrial practice.	9,10
2. Experience of presenting the results of a project orally and in writing.	14
3. Experience of utilizing modern engineering tools for a research or design project.	2

Topics Covered

Students will select an individual or team project from a list suggested by faculty members. The projects will be connected to current research activities or investigations suggested by industrial collaborators. Students will complete the project supervised by the individual faculty. Each student will prepare a project report and may also present the results in an end of semester poster session in the Department.

Contribution to Professional Component

Typically:

Engineering Science: 2 credits or 67%

Engineering Design: 1 credit or 33%

Course Outcomes:

Department Outcome	Indicator
B. An ability to use modern computing tools and techniques to effectively solve industrial engineering problems	Project report
M. An ability to take an assigned engineering problem, analyze it and formulate and implement a solution.	Project report
N. An ability to effectively contribute to a team solution of a complex engineering problem.	Project report
T. An ability to present engineering information clearly and succinctly in written form.	Project report
U. An ability to make clear oral presentations.	Project presentation

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2005

Date: December