

## IE 120

### Industrial Engineering: Overview and Orientation

Fall 2009

**Instructor:** Gürkan Kumbaroğlu ([gurkank@boun.edu.tr](mailto:gurkank@boun.edu.tr))

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#### Catalog Information: (1+1+0) Pass/Fail

Introduction and orientation to IE. Concepts and approaches: illustrations of main methods and applications presented by a series of lectures given by the IE faculty; overview of departmental laboratories; basic information technologies and software including mathematical packages and web-based applications.

**Course Objectives:** This is a required orientation course designed for beginning freshmen to inform them about main concepts, goals and options of industrial engineering program, and to introduce the faculty and departmental research facilities along with basic literacy on relevant information technologies.

**Course web:** <http://karagoz.ie.boun.edu.tr/moodle/>  
(Enrollment key: ie120\_2009)

**Grading:** Grades are based on attendance, and three to four assignments. Students are expected to attend all lecture periods. Excused absences must be approved by the course instructor; however there cannot be more than two absences during the semester. The course is graded Pass/Fail without a final examination. All students are expected to hand in the assignments.

**Course schedule:** Monday 15:00-17:00 M2200

Week	Date	Topic	Instructor
1	Sep.28	Overview and organization of the course	Gürkan Kumbaroğlu
2	Oct.05	Design in IE (Facility design)	Ümit Bilge
3	Oct.12	Mathematical modeling in IE	Kuban Altınel
4	Oct.19	Dealing with uncertainty: probability and statistics	Refik Güllü
5	Oct.26	System simulation	Yaman Barlas / Hakan Yaşarcan
6	Nov.02	The art of judgement	Taner Bilgiç / Caner Taşkın
7	Nov.09	Manufacturing Systems: problems, planning	Ali Tamer Ünal
8	Nov.16	The power of logical thinking	Wolfgang Hörmann
9	Nov.23	Ergonomics	Mahmut Ekşioğlu
10	Dec.07	Reverse Logistics	Necati Aras / Aybek Korugan
11	Dec.14	The concept of quality and ethics in Engineering	Ali Rıza Kaylan
12	Dec.21	OR Applications	İlhan Or / Gürkan Kumbaroğlu
13	Dec.28	Professional Societies in IE/OR and Career Opportunities	Gürkan Kumbaroğlu

**Honor Code:**

As students of Boğaziçi University you are expected to honor a code that is usually taken for granted throughout your stay in the University. But nevertheless it is useful to state the Honor Code\* explicitly at this stage.

Students, individually and collectively agree:

1. that they will not give or receive aid in examinations; that they will not give or receive unpermitted aid in class work, in the preparation of reports, or in any other work that is to be used by the instructor as the basis of grading;
2. that they will do their share and take an active part in seeing to it that others as well as themselves obey the Honor Code.

Examples of conduct which have been regarded as being in violation of the Honor Code include:

- Copying from another's examination paper or allowing another to copy from one's own paper
- Unpermitted collaboration
- Plagiarism
- Revising and resubmitting a quiz or exam for regrading, without the instructor's knowledge and consent
- Giving or receiving unpermitted aid on a take-home examination
- Representing as one's own work the work of another
- Giving or receiving aid on an academic assignment under circumstances in which a reasonable person should have known that such aid was not permitted

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\* Adopted from Stanford University Honor Code