Production Scheduling - Fall Semester, 2013

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Office hour: Monday, 17:30

General Topics:
Definition of scheduling problems: the machine environment, job characteristics, commonly used objective functions.
Complexity; polynomial time algorithms, heuristics.
Single machine problems.
Parallel machines (identical, uniform, unrelated).
Flowshops, openshops, jobshops.
Due-date assignment problems.
Deterioration and learning.
Batch scheduling.

Text book:
"Scheduling: Theory, Algorithms and Systems"; Michael Pinedo; Prentice-Hall.

Course Structure:
The course will be research oriented. The first part consists of my lectures. The second part will be dedicated to research projects of the students.

Homework assignment:
In the first part of the course, an assignment will be given every week. At least 80% of the assignments should be submitted. (It is recommended of course that all the assignments will be submitted.) In the second part, students will work on a new scheduling topic, and will present their final paper at the end of the semester.

Grading:
The final grade is based on the exam (50%), and the final project (50%).

Hope you enjoy the course!