This course provides an introduction to basic supply chain management concepts. Focus of the course is long, mid and short-term planning functions, including inventory, production and logistics planning. Throughout the course, students will be introduced to real life scenarios, and they will be expected to use a commercial ERP system on a test case as a term project.

**Prerequisite:** IE 312 or equivalent

**Textbook**  

**References**


**Grading**

- Midterm 1 20% November 13, Thursday 5pm
- Midterm 2 20% December 18, Thursday 5pm
- Final 30%
- Assignments (2 or 3) 15%
- Project 15%

You need to collect a weighted average of **at least 25 points** from midterms and assignments (excluding the project) to be able to take the final exam.

**Outline**

1. **Introduction** 1 (0.5 week) Ch. 1
2. Aggregate Planning (2 weeks) Ch. 3
3. Master Production Schedule (MPS) (1 week) Notes
4. Material Requirements Planning (MRP) and Just-in-time (JIT) (1 week) Notes & Ch. 7
5. Distribution Requirements Planning (DRP) and Capacity Requirements Planning (CRP) (1 week) Notes
6. Production scheduling (3 weeks) Ch. 8 & Notes
7. Inventory management and Supply Chain Contracts (3 weeks) Notes & Ch.5
8. Supply chain logistics planning (2 weeks) Notes & Ch.6