

MANUFACTURING PROCESSES I

IE 252

Lecture 1 --Introduction to:

- »Class Operation,**
- »Course Coverage,**
- »Skill Expectations**

Instructors

- **Lectures**

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- **Laboratories**

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Course Details

Textbook:

- **Manufacturing Engineering Processes”**
Ali M. Alsamhan, S. Darwish.

References:

- **“Manufacturing Processes for Engineering Materials”**,
S. Kalpakjian and S.R. Schmid, Addison Wesley, 5th ed.

OVERVIEW OF CLASS OPERATION

- **‘Lecture’**
 - **Turn In All Assignments As You Enter**
 - **No Late Assignments Accepted.**
 - **Will Begin on Time**
 - **Fifty Five Minutes (No Breaks)**

OVERVIEW OF CLASS OPERATION

- **'Lab'**
 - **Work Safely,**
 - **Come Dressed Appropriately**
 - **Turn In Any/All Assignment(s) As You Enter**
 - **No Late Assignments Accepted**
 - **Will Begin on Time (5 min. time admission).**
 - **One 110 Minutes**
 - **10 min. time break is allowed.**

Course Goals

- To bring to the students an appreciation for the complexity, depth and breadth of Manufacturing. (b,e)
- To provide students with an understanding of the importance of manufacturing process to the economy and to design decision. (b,c)
- To provide students with an understanding of manufacturing processes (b, c, e)
 - Concepts
 - Examples
 - Application in the real world.

ABET “a-k” Po’s:

- b.** An ability to design and conduct experiments, as well as to analyze and interpret data.
- c.** An ability to design a system, component, or process to meet desired needs.
- e.** An ability to identify, formulate, and solve engineering problems.

Proposed Lectures

WEEK #	Subject	WEEK #	Subject
1	Introduction	8	Metal forming Theory
2	Manufacturing Definition	9	Rolling
3	Metal Casting I	10	Extrusion
4	Metal Casting II	11	Wire drawing
5	Joining processes I	12	Exam II
6	Joining processes II	13	Metal forging
7	Exam -I	14	Sheet metal forming

OVERVIEW OF SYLLABUS/COURSE

- **Grade Determination (Curved As Needed)**
 - Two Tests @ 15% each
 - One Final @ 40%
 - Homework @ 5%
 - Laboratory @ 20%
 - Case Study @ 5%
 - 5 marks bonus for attendance and activities
- **Attendance 75%**
- **Expectations**
 - **Academic Honesty at All Times!**
 - All Materials Used on Any/all Work Product -- e.g., Homework, Case Studies, Lab
 - No Additional Warnings, No Tolerance for Violation