Addis Ababa University
Addis Ababa Institute of Technology
Department of Mechanical Engineering

Industrial Management and Engineering Economy (Meng 5242)
Academic Year 2010/11

Instructor: Yared Lemma

Course Objectives

The course enables students to understand basic principles/concepts of:

- Industrial management and organization;
- Industrial plant design;
- Effective material management;
- Management and resource allocation; and Engineering economy.

Course Description:

1. Basic Management Concepts and Industrial Organization
   - Introduction to management
   - Functions of management
   - Organizational structure
   - Basics of productivity

2. Plant Design
   - Introduction
   - Basics of plant Layout
   - Study of Plant Layout
   - Ergonomics and Industrial Safety

3. Forecasting
   - Introduction
   - Meaning and use of forecasting
   - Forecasting techniques

4. Materials Management
   - Introduction
   - Purchasing
   - Inventory control
5. Project Management and Resource Allocation
   - Introduction
   - Work breakdown structure
   - Project organization
   - Project Financing
   - Network scheduling
   - Projects crashing
   - Resource allocation
   - Project risks

6. Investment Evaluation
   - Introduction
   - Total investment costs
   - Projects financing
   - Financial evaluations

7. Basic Accounting Principles & Budgeting Fundamentals (Optional)
   - Introduction
   - Classification of accounts
   - Accounting concepts
   - Accounting statements
   - Budgets and budgetary control

Evaluations
   - 40% Mid Exam and Assignment
   - 60% Final Exam


References