II. COURSE INFORMATION

COURSE OBJECTIVES
This course is designed with the purpose of providing the students with some of the basic methods necessary for decision making in the field of production management. Those who take this course are expected not to become competent in but at least to become familiar with and hopefully to gain a good understanding about some of the decision problems and the relevant solution methods. They may look forward to gaining an analytical framework for understanding the production process and to acquiring the skills necessary for taking part in the activities such as construction of data bases and inventory management.

COURSE DESCRIPTION
The topics to be covered are the ones that are considered to be essential for the students of business department. The details are given in the course outline.

COURSE METHODOLOGY
The course is conducted primarily in lecture format. Regardless, students are encouraged to raise question and to make comments whenever they wish. Participation of the students in the class discussions is expected to play a predominant role. The cases to be discussed pertain largely to the manufacturing firms located in Kayseri.

COURSE REQUIREMENTS
Chapters and the articles assigned for the week in the course outline must be read at least once before coming to class. As the lectures usually cover a wider range than the relevant texts do, uninterrupted attendance is essential. The students who have passed Operations Research I and II are much more likely to be successful, because some of the exact as well as heuristic techniques taught in those courses are employed.

GRADING INFORMATION & CRITERIA
40% of the midterm exam and 60% of the final exam constitute the raw grade of the course. Raw grade is then converted into letter grade through the curve system. The outcomes are e-mailed to the students.

REQUIRED & PROPOSED MATERIALS
The approximate percentages of the classes that are going to be devoted to theoretical topics and to numerical examples are 35% and 65% respectively. The same percentages apply to the questions to be asked in the exams. The lecture notes are handed over to the students at the beginning of the semester. Numerical examples are solved by the instructor with the contribution of students.

EXTRA INFORMATION
Attendance is vital particularly for the classes during which numerical examples are worked on. No office hours. The students are welcomed by the instructor at any time anywhere in the school building.

COURSE OUTLINE
The topics to be covered:
Week 1 - Fundamental concepts in production management.
Week 2 - Production systems and their properties in terms of factors of production, production methods and products.
Week 3 - Types of production and their basic properties.
Week 4 - Plant location and the relevant decision making techniques.
Weeks 5,6 - Capacity planning and the relevant decision making techniques.
Week 7 - Economies of scale.
Weeks 8,9 - Product trees and parts lists and the relevant techniques.
Weeks 10,11 - Process layout, product layout and the relevant techniques.
Week 12 - Inventory management.
Week 13 - Static deterministic inventory models.
Week 14 - Dynamic deterministic and stochastic inventory models.