



Course Introduction

About the Instructor

Zhang Yan

Education

Ph.D. in Industrial Engineering

University of Xi'an Jiaotong University, 2010

B.A. in E-Commerce

University of Xi'an Jiaotong University, 2000

Experience

Lecturer– 2011 - 2013

Associate professor 2014 -

**Transportation Management School, Dalian Maritime
University, 2011**

Course Introduction

- Provides an introduction to optimization, building upon the fundamentals of linear algebra.
- Covers optimization methodologies, including linear programming, network optimization, integer programming, and decision tree.
- Applications to logistics, manufacturing, transportation, marketing, project management, and finance.

Basis of Grade

- Class attendance and participation 20%
- Homework 30%
- Project Report 50%



Introduction of Operations Research

What is Operations Research (OR)?

- “The science of better”
 - ◆◆◆
- “The use of mathematical models, statistics and algorithms to aid in decision-making with the goal of improving or optimizing performance”
 - ◆◆◆
- “Research designed to determine the most efficient way to do something”
 - ◆◆◆
- “The application of scientific methods to improve the effectiveness of operations, decisions and management”

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