



ÇANKAYA UNIVERSITY
Faculty of Engineering
Industrial Engineering Department

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IE 519 – Humanitarian Logistics (3 0 3) **Fall 2019**

Course objectives

The course objectives are: (1) to introduce humanitarian logistics and highlight the differences between commercial logistics, (2) to present the use of OR/MS tools in humanitarian logistics modeling, (3) to provide skills in diagnosing and analyzing problems in a non-traditional setting (i.e., not-for-profit environment).

Course web site

Moodle platform in <http://webonline.cankaya.edu.tr/> will be used.

Lectures

Lectures will be held as class discussions. The introductory concepts will be covered by the lecturer in the first half of the semester, and then advanced concepts will be covered in the following weeks. Each week, a concept will be explained in the view of a sample article.

Article review

Students are expected to submit a one-page review of the article for the week. The review should cover the main idea of the article, data source and/or experimental method, OR/MS tools used, brief explanation about the mathematical model, results and discussion.

References

Author(s)	Title	Publisher	Publication Year	ISBN
Rolando Tomasini, Luk Van Wassenhove	Humanitarian Logistics	INSEAD Business Press	2009	978-0-230- 20575-8
Martin Christopher, Peter Tatham	Humanitarian Logistics: Meeting the Challenge of Preparing for and Responding to Disasters	Kogan Page	2011	978-0749462468
Several other articles from various authors will be covered.				

Participation in class discussion

Students are required to participate in class discussions. Lecturer will lead the discussions.

Article presentation

There will be one topic presentation.

Exams & Make-Ups

Exams will include questions related to short description of main concepts and quantitative problems. Most exam questions will be similar to the mathematical models in the articles. If a student misses midterm and/or final exam with a valid excuse, then he/she will get a make-up exam according to the rules in university by-laws. A make-up exam might contain more questions than the regular exam.

Tentative Course Schedule

Every student should check course web site regularly; and is responsible for the material of the week, and announcements made at the course web site.

Week	Lecture (Topic)	Presenter
1	Introduction to humanitarian logistics	
2	Operational phases of humanitarian logistics	
3	Characteristics of humanitarian logistics	
4	Needs assessment phase	
5	Procurement	
6	Facility location	
7	Inventory management	
8	Transportation network design	
9	Evacuation models	
10	Last mile distribution	
11	Technology and information management	
12	Coordination of different stakeholders	
13	Recovery phase and sustainment phase	
14	Performance management	

Grading Policy (*)

Assessment Tool	Percentage
Eight article reviews 2.5pt	20
One topic presentation	15
Participation into discussions	5
Midterm exam	25
Final exam	35

(*) Instructor reserves the right to change the grading policy