

## Tárgytematika / Course Description Routing Models

AJNB\_LSTA038

**Tárgyfelelős neve /**

**Teacher's name:** dr. Horváth Adrián Ferenc

**Félév / Semester:** 2023/24/1

**Beszámolási forma /**

**Assesment:** Vizsga

**Tárgy heti óraszám /**

**Teaching hours(week):** 2/0/1

**Tárgy féléves óraszám /**

**Teaching hours(sem.):** 0/0/0

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### OKTATÁS CÉLJA / AIM OF THE COURSE

The aim of the course is to introduce the fields of distribution and routing. The student learns the mathematical background of routing methods, the field of application and the economical and management relationships of elements in distribution networks.

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### TANTÁRGY TARTALMA / DESCRIPTION

Basics of distribution

Structures and conflicts in distribution

The role of stock in distribution

Stocking models

Types of transportation in distribution

Transportation costs

Two echelon network

Three echelon networks

Route types

Capacity utilization problems

Depot location problems

The connection between costs and depo location

Routing software systems

Network planning systems

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## **SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD**

Homework project

The basement of assesment is a homework, one theoretical and one practical part, the cumulative value of the two gives the grade

0-100 %0-50% insufficient, 51 – 62% sufficient, 63 – 74% moderate, 75 – 86% good, 87 -100% excellent

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## **KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL**

Paolo Toth, Daniele Vigo: Vehicle routing, problems methods and applications

Daganzo: Logistics systems analysis

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## **AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL**