

Tárgytematika / Course Description

Distribution and Supply Management

NGM_LO105_1

Tárgyfelelős neve /

Teacher's name: dr. Földesi Péter

Félév / Semester: 2015/16/1

Beszámolási forma /

Assesment: Vizsga

Tárgy heti óraszáma /

Teaching hours(week): 2/2/0

Tárgy féléves óraszáma /

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

OKTATÁS CÉLJA / AIM OF THE COURSE

An effective distribution system is vital for sales and supply mainly due to increasing customer needs. This subject will handle – based on marketing knowledge – the increasing role of logistic supply and supply chains in sales and distribution.

TANTÁRGY TARTALMA / DESCRIPTION

1. Connection between marketing and logistics
2. Procurement and distribution strategies
3. Strategic alliances and strategic control in the supply chains
4. Optimal production and order size
5. Stochastic processes, queuing models
6. Theory and dynamics of stock
7. Simple mathematical model of a supply chain
8. The basics of modeling supply chains. Length and complexity of supply chains.
9. Dynamics of supply chains. Bullwhip effect.
10. Role, structure, behavior of supply chains
11. The role of time in supply chains
12. Physical supply systems. Cross-dock
13. Optimization of supply systems, methodology of operation research
14. Basic logistics optimization problems: TSP, bin-packing

Topic of Practical Lectures

1. MRP calculation
2. Hungarian algorithm, task allocation
3. Capacity planning
4. Analytical methods of Economic Order Quantity and optimal lot size calculation

5. Queueing theory, Stochastic processes I.
 6. Queueing theory, Stochastic processes II.
 7. Performance and reliability of material handling systems I.
 8. Performance and reliability of material handling systems II.
 9. Basics of the Toyota method, Value Stream Mapping
 10. Solution of the Travelling Salesman Problem by approximate methods, Branch and Bound method
 11. Delivery problem
 12. Depot choice problem
 13. Simulation techniques for logistic process planning
 14. Consultation, practicing
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SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

Oral examination Exam Period

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

Required reading:

- Dr. Szegedi Zoltán Ellátási lánc menedzsment (Kossuth Kiadó 2012.)