

## Tárgytematika / Course Description

### Packaging systems and Structures

AJNB\_LSTA034

**Tárgyfelelős neve /**

**Teacher's name:** dr. Böröcz Péter János

**Félév / Semester:** 2021/22/2

**Beszámolási forma /**

**Assesment:** Vizsga

**Tárgy heti óraszám /**

**Teaching hours(week):** 3/0/0

**Tárgy féléves óraszám /**

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

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### OKTATÁS CÉLJA / AIM OF THE COURSE

Today by means of their system-organization and continuous development, the companies get into a decision dependence situation in order to getting the optimal logistic-packaging expenses. This decision situation practically means the decision mechanism between packaging systems one-way and reuseable packaging (disposable, or returnable). The study examines the theoretical function processes between these two systems, and the expense-structure which is belonging to a given systems furthermore.

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### TANTÁRGY TARTALMA / DESCRIPTION

1. Basics of packaging technology
2. The most common packaging materials and packaging made from them
3. Packaging technology solutions by industry
4. One-way (disposable) packaging
5. Returnable (refillable) packaging
6. Organization of packaging systems
7. Cost elements of packaging systems
8. Linear, cyclic and hybrid structures
9. Cost analysis issues of structures

10. Environmental management issues of packaging systems
11. Cost functions of each system
12. Cost optimization models
13. Features of pool systems and comparison with traditional packaging systems
14. Control of knowledge

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

Oral exam, 20 min.

0-50%: 1

51-64%: 2

65%-79%: 3

80-90%: 4

91% -: 5

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### **KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL**

Yam, K. L., Encyclopedia of Packaging Technology, John Wiley & Sons Inc., Hoboken, NJ, 2009, Given Chapters.