

Tárgytematika / Course Description Production Logistics 1.

AJNB_LSTA018

Tárgyfelelős neve /

Teacher's name: dr. Tápler Csaba

Félév / Semester: 2024/25/2

Beszámolási forma /

Assesment: Vizsga

Tárgy heti óraszám /

Teaching hours(week): 3/0/0

Tárgy féléves óraszám /

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

OKTATÁS CÉLJA / AIM OF THE COURSE

The students will receive a broad introduction to production logistics and its processes which includes technological procedures, strategic planning, product planning, operation management. They will get familiar with the inventorying, buffer sizing, equipment utilization, capacity planning in production systems.

The lectures will give practical and theoretical knowledge and will contain case studies and academic reviews.

TANTÁRGY TARTALMA / DESCRIPTION

1. Introduction to production and operation management. Evolution and classification of production systems. – Csaba Tapler
2. Production technologies – Csaba Tapler
3. Material handling in production– Csaba Tapler
4. Decision of plant location – Csaba Tapler
5. Layout design, classification of plant layouts – Csaba Tapler
6. Material flow optimization. Visualization methods. Design– Csaba Tapler
7. Materials management in production systems – inventory control - Zoltan Nagy
8. Materials management in production systems – trade-offs, batch size, buffers - Zoltan Nagy
9. Easter Monday
10. Production planning and control. – Aggregate planning, Master production planning, Material resource planning - Zoltan Nagy
11. Production planning and control. Operational planning. – Capacity planning, routing and scheduling. - Zoltan Nagy
12. Productivity calculations - Zoltan Nagy

13. Productivity calculations - Zoltan Nagy
14. Preliminary exam – Oral exam

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

Assessment:

The assessment is based on the oral exam at the end of the semester. The students can also take a preliminary exam in the final week of the semester. The exam dates will be published in Neptun, the following grading scale applies:

Assessment result Grade

0% - 50%	1
51% - 62%	2
63% - 74%	3
75% - 87%	4
88% - 100%	5

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

S. Anil Kumar, N. Suresh: Production and operations management, New Age International Publishers, 2nd edition, 2008

AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL