

## Tárgytematika / Course Description

### Production Logistics 2.

AJNB\_LSTA019

**Tárgyfelelős neve /**

**Teacher's name:** dr. Hartványi Tamás

**Félév / Semester:** 2021/22/1

**Beszámolási forma /**

**Assesment:** Vizsga

**Tárgy heti óraszám /**

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

**Tárgy féléves óraszám /**

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

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### OKTATÁS CÉLJA / AIM OF THE COURSE

The students will receive a broad introduction to deeper levels of production logistics. They will get familiar with the principals of lean theory, different material flow mechanisms, ID systems, quality requirements. The lecturers will demonstrate best practice waste management solutions, automation projects and elements of Industry 4.0.

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

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### TANTÁRGY TARTALMA / DESCRIPTION

The Toyota Production System, Principles of Lean

Lean methodology I

Lean methodology II

Value Stream Mapping

Material flow control, push and pull, MRP and kanban, hybrid operations

Identification systems, traceability, FIFO

Summary and case studies

Quality Control in production systems, document management

Production and quality standards in different industries

Industry 4.0 and MES systems

Automation in production plants

Maintenance management

Waste management

Summary and case studies

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

The assessment is based on the written exam at the end of the semester. The exam dates will be published in Neptun, the following grading scale applies:

<b><u>Assessment result</u></b>	<b><u>Grade</u></b>
<b>0% - 50%</b>	<b>1</b>
<b>51% - 62%</b>	<b>2</b>
<b>63% - 74%</b>	<b>3</b>
<b>75% - 87%</b>	<b>4</b>
<b>88% - 100%</b>	<b>5</b>

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## **KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL**

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