Course title: Procurement and Distribution Logistics	**Neptun code: GEALT412-a**
Course coordinator: Dr. Ágota Tóth Dr. Bányainé, PhD, dr. habil., associate professor	
type of lesson and number of lessons: **lecture (2)**	
method of evaluation: colloquium	
curriculum location of the subject: (autumn/spring semester): autumn and spring	
pre-study conditions *(if any)*: -	

The task and purpose of the subject:

The course introduces students into two of the four logistic subsystems of manufacturing companies: purchasing and distribution logistics subsystems, including related planning and management methods. The aim is to provide the theoretical basis for the optimal design and operation of purchasing and distribution logistics systems and to broaden practical knowledge through case studies.

Course description:

Models and methods of planning and management of the different variants of the logistics processes of procurement and distribution. Information system for purchasing and distribution logistics. Modelling of JIT supply and distribution. Mathematical modelling of make or buy decision. The influence of raw material management and finished product management on production logistics. Optimisation of material flow, warehousing and transport characteristics in supply and distribution logistics. Optimisation of information technology. Application of outsourcing and benchmarking in supply and distribution logistics.

Required literature:

1. Simchi-Levi D., Chen X., Bramel J.: The logic of logistics - theory, algorithms, and applications for logistics and supply chain management. Springer, 2005. ISBN 0-387-22199-9
2. Mulcahy, D.E.: Warehouse and distribution operations handbook. McGraw-Hill, 1994. ISBN 0-07-044002-6

Recommended literature:

1. Gianpaolo Ghiani, Gilbert Laporte, Roberto Musmanno: Introduction to logistics systems management. Wiley 2013, ISBN: 978-1-119-94338-9
2. Zheng, L., Possel-Dölken, F.: Strategic production networks. Springer, 2002. ISBN 3-540-43162-4