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| Donát Bánki Faculty of Mechanical and Safety Engineering | Institute of Mechatronics and Vehicle Engineering |
|  Name of the subject: **Logistics, BGRLG15NEC, BGRLG1KTNC** Credits: 3 Term: 2014/2015/I  |
| Faculties, where the subject is offered: Mechatronics engineering, Safety engineering, Vehicle engineering |
| *Subject leader:* | Dr. Gabriella Orbán | *Lecturer* | Dr. Gabriella Orbán |
| Preliminary requirement | good English skills |
| No. of sessions per week | Lecture: 2 | Seminar: 0  | Lab: 0 | Consultation: 2 |
| Type of subject requirement | mid-term mark |
| Course description: |
| The purpose of this course is to inspire logistical thinking of students. The basic logistical principles will be presented, including the main logistical activities within companies (purchasing, production, distribution, and waste management), between companies (supply chain management), and problem solving in logistical tasks. We will deal with storage, material handling, packaging, warehousing, loading, and transportation of freight as well, using the latest logistical examples, both in theory and in practice. |
| **Course timetable** |
| week | Course content |
|  | The definition and importance of logistics, Logistics Systems, Logistics viewpoints, Supply Chain Management, main logistic processes, their properties |
|  | Business logistics, strategical, tactical and operational decisions in purchasing, production, distribution, and waste management |
|  | Logistics in Purchasing and Production. |
|  | Lean management, JIT in Logistics |
|  | Logistics in Distribution and Waste management, sustainability |
|  | Unit loads. Packaging. Combined transport |
|  | Automatic identification and data capture |
|  | Information systems in Logistics |
|  | Storage, warehouse technologie |
|  | Logistics outsourcing, logistics services, logistics service providers |
|  | **mid-term exam/test** |
| 1. 13
 | students presentations |
| 14. | **re-take exam/test**, students presentations |
| **Requirements**  |
| week 11. | mid-term exam/test |
| week 12-14 | students presentations |
| **Course and attendance policies** |
| Prompt attendance in lectures is required. A student is allowed to be absent from at most the 30% of lectures (4 lectures). At the end of the course students have to give a 10-15 minute powerpoint presentation, which is followed by 5 minutes of discussion and questions. The presentation must have high quality illustrations (must be readable by the audience) that succinctly convey the major points of the choosen topic. All students are required to choose a topic until the 6th week (deadline: the lecture on the 6th week) and upload or send a pdf and ppt file of their presentation (slides+comments) until the 10th week (deadline: the lecture on the 10th week). |
| **Assessement** |
| Based on the mid-term exam (50%) and the students presentation (50%). |
| **Compulsory (and higly recommended) literature** |
| Martin Christopher: Logistics and Supply Chain Management (4th Edition), Pearson Education Limited, 2011, ISBN: 978-0-273-73112-2 Michael H. Hugos: Essentials of Supply Chain Management, Third Edition, Wiley, John & Sons, Incorporated , 2006| ISBN: 9780471776345Dr. Orbán Gabriella-Lőrincz Katalin: Logisztikai alapismeretek, elektronikus jegyzet (Moodle) |
| **Tutorial** |
| E-learning material: Moodle |