

## **Tárgytematika / Course Description**

### **Information Management and Telecommunication**

**GKNB\_TATA062**

**Tárgyfelelős neve /**

**Teacher's name:** dr. Wersényi György

**Félév / Semester:** 2022/23/1

**Beszámolási forma /**

**Assesment:** Folyamatos számonkérés

**Tárgy heti óraszám /**

**Teaching hours(week):** 1/1/1

**Tárgy féléves óraszám /**

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

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#### **OKTATÁS CÉLJA / AIM OF THE COURSE**

In this subject students get an introduction to the information management systems and telecommunication methods used in vehicle engineering. Furthermore, a dedicated project work will be fulfilled, presented and evaluated by student groups.

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#### **TANTÁRGY TARTALMA / DESCRIPTION**

1. Introduction
2. Basics of telecommunication systems I.
3. Basics of telecommunication systems II.
4. Radiofrequency propagation
5. Wireless communication
6. Wirless systems in vehicles
7. Infocommunication basics
8. IT used in vehicles
9. Communication and bus systems
10. Project work selection
11. Managment in IT systems
12. Project work
13. Project woek
14. Presentation and evaluation of projects

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

Marking on a scale of 1-5, based on oral exam and project marks (arithmetic mean)

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

**Y. Wang: Connected Vehicle Systems: Communication, Data, and Control. CRC Press,**

**ISBN 978-1138035874**