

Tárgytematika / Course Description Knowledge Base Technologies and Planning

GKNM_INTA059

Tárgyfelelős neve /

Teacher's name: dr. Erdős Ferenc

Félév / Semester: 2023/24/2

Beszámolási forma /

Assesment: Vizsga

Tárgy heti óraszám /

Teaching hours(week): 1/2/1

Tárgy féléves óraszám /

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

OKTATÁS CÉLJA / AIM OF THE COURSE

The aim of the course is to recognize the importance of knowledge as a strategic organizational resource and to explore ways for managing and engineering it, as well as to understand the foundations of different knowledge base technologies from a business point of view.

TANTÁRGY TARTALMA / DESCRIPTION

1. Overview of the course description and course requirements. Introduction.
2. Basic Terms Regarding Knowledge
3. The Concept and Role of Knowledge Management
4. Knowledge Management Approach to Different Types of Knowledge Base Systems
- 5-6. Knowledge Engineering and Representation, Knowledge Graphs
7. CRISP-DM Methodology
- 8-9. Knowledge Discovery in Databases
- 10-13. AI/ML-Based Knowledge Discovery
14. Mock exam

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

Students will get marks based on the written final exam.

Grades and scale:

0%-50% Fail

51%-61% Pass

62%-73% Satisfactory

74%-85% Good

86%-100% Excellent

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

Joachim W. Schmidt, Costantino Thanos (Editor): Foundations of Knowledge Base Management, Springer, 1989

Negnevitsky, Artificial Intelligence A Guide to Intelligent Systems, Pearson, 2011.

Bimba, A. T., Idris, N., Al-Hunaiyyan, A., Mahmud, R. B., Abdelaziz, A., Khan, S., & Chang, V.: Towards knowledge modeling and manipulation technologies: A survey. International Journal of Information Management, 36(6), pp. 857-871. 2016.

Lin, J., Zhao, Y., Huang, W. et al. Domain knowledge graph-based research progress of knowledge representation. Neural Comput & Applic 33, pp. 681-690. 2021.

AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL