

Data Mining					
Course code CIF62050	student workload 90 hours	credits (according to ECTS) 4,5	semester Sem. 6	frequency each even-semester	duration 16 meetings
1	Types of courses <i>Elective</i>	contact hours 63 hours	independent study 27 hours	class size 40 students	
5	Prerequisites for participation Have completed Algorithms and Data Structures				
2	Learning outcomes IF-ILO-3 Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements. IF-ILO-10 Graduates are able to analyze, design, build and evaluate an intelligent system that has the ability to learn from the environment. IF-ILO-12 Graduates are able to apply the principles of engineering to develop good quality software on top of various platforms				
3	Subject aims Students are able to understand the concept of data mining, data warehousing, and data characteristics Students are able to understand the concept of stages and methods of data preprocessing Students are able to apply association algorithms in various problems/cases Students are able to apply classification algorithms in various problems/cases Students are able to apply clustering algorithms in various problems/cases Students are able to apply outlier/anomaly detection methods Students are able to evaluate the performance of various association, classification, and clustering algorithms				
4	Teaching methods lectures, case study, class discussion, presentation				
6	Assessment methods assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment				
8	This module is used in the following degree programmes as well				
10	Responsibility for module				

11	Other information <ol style="list-style-type: none"><li data-bbox="225 241 1383 315">1. Han, J., Kamber, M., Pei, J. "Data Mining Concept and Techniques", 3rd ed., Morgan Kaufmann, 2012;<li data-bbox="225 331 1383 369">2. Tan, P., Steinbach, M., Kumar, V., "Introduction to Data Mining", Pearson, 2006;
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