

Data Mining					
Course Code CSD60006	Student Workload 90 hours	Credits (according to ECTS) 4.5	Semester 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	
2	Prerequisites for participation Have completed Database Fundamental				
3	Learning outcomes IS-ILO-4 Graduates can develop professional careers in computer science based on quality aspects, data-driven decision making, be responsible, and make continuous improvements. IS-ILO-5 Graduates are expected to understand the ideas of the principles of morality, ethics and values in the IS fields and also to have the ability to apply ethical principles in decision-making to support community and environmental welfare.				
4	Subject aims <ul style="list-style-type: none"> • Students are able to describe and explain the main concepts, tools, algorithms, and basic data mining techniques. • Students are able to explain and identify the need for data mining techniques that appropriate and able to formulate it with transaction data attributes owned by the organization. • Students are able to apply and demonstrate the ability of data mining techniques independently through simple data processing and presenting results using data mining software or software-based python programming language. • Students are able to demonstrate the ability to design data mining stages, including the process of data cleaning, feature, model building, application of the model, as well as evaluation and results analysis of the model formed. 				
5	Teaching methods lectures, case study, class discussion, presentation				
6	Assessment methods assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment				
7	This module is used in the following degree programs as well				
8	Responsibility for module				
9	Other information Han , Jiawei. (2011). "Data Mining Concepts and Techniques 3rd Edition". Morgan Kaufmann				

Publishers Inc.

Witten, Ian H. (2016). "Data Mining: Practical Machine Learning Tools and Techniques 4th Edition". Morgan Kaufmann Publishers Inc.
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