

Text Mining

Course Title: Text Mining					
Course Code: CIE60060	Student Workload: 8.50 Hours/ Weeks	Credits: 3 Credits (4.50 ECTS)	Semester: 7 th Semester	Frequency: Odd Semester	Duration: 16 Weeks/ Semester (Lecture: 14 weeks; Midterm assessment: 1 week; Final assessment: 1 week)
1	Types of Courses: Content Knowledge Course	Contact Hours: Lecturing: 2.50 Hours/ Week; Practical Work: 0.00 Hours/ Week	Independent Study: Self-study: 3.00 Hours/ Week; Structured Assignment: 3.00 Hours/ Week	Class Size: 40 Students	
2	Prerequisites for Participation (If Applicable): 1. Artificial Intelligence 2. Data Mining				
3	Learning Outcomes: 1. M1: Able to understand the basic concepts of text mining (ILO-4) (0,2) 2. M2: Able to understand the concept of preprocessing and word weighting in text mining (ILO-4) (0,2) 3. M3: Able to understand the concept of Information Retrieval, Information Extraction, and Summarization (ILO-7) (0,2) 4. M4: Able to understand the concept of document clustering algorithm (ILO-8) (0,2) 5. M5: Able to understand the concept of document classification algorithm (ILO-10) (0,2)				
4	Subject aims/Content: At the end of the course, students are expected: 1. L1: Able to understand and explain the basic concepts of text mining (M1) 2. L2: Able to understand and explain the concept of preprocessing and word weighting in text mining (M2) 3. L3: Able to perform Information Retrieval, Information Extraction, and Summarization (M3) 4. L4: Able to implement document clustering (M4) 5. L5: Able to implement algorithms in journals into program code and present the results achieved (M5)				
5	Teaching Methods: Lecturing, Group Discussion, Case-Based Learning				
6	Assessment Methods: Essay, Performance Test, Case Assessment, Peer Assessment				
7	This Course is Used in The Following Study Programme/s as Well: -				
8	Responsibility for Course: Dr.Eng. Fitra Abdurrachman Bachtiar, S.T., M.Eng. Satrio Hadi Wijoyo, S.Si., S.Pd., M.Kom.				
9	Other Information: Bibliography: 1. Marmanis, H., Babenko, D. 2009. Algorithms of the intelligent web, Manning Publication Co. 2. Weiss, S. M., Indurkha, N., Zhang, T., Damerau, F. J. 2005. Text mining: Predictive methods for analyzing unstructured information, Springer. 3. Grossman, D.A., Frieder, O. 2004. Information retrieval: Algorithms and Heuristics, 2nd edition, Springer. 4. Konchady, M. 2006. Text mining application programming, Charles River Media. 5. Liu, B. 2007. Web data mining: Exploring hyperlinks, contents, and usage data, Springer. 6. Wittern, I.H., Frank, E. 2005. Data mining: Practical machine learning tools and techniques, Elsevier Inc.				