

CPE 393 Text Analytics

Department of Computer Engineering, KMUTT, 1/2024

Instructor: Dr. Sansiri Tarnpradab **Email:** sansiri.tarn@kmutt.ac.th

TA: Phanita Sirichai **Email:** phanita.si26@gmail.com

Lecture: Thu 18.00 - 21.00 **Room:** CPE1115

The objective of this course is to introduce students to techniques to process textual data, how to extract insights from unstructured text, along with methods to perform a textual data analysis.

COURSE LEARNING OUTCOMES:

- Students can use suitable methods to process and analyze the text data.
- Students understand and use text mining to address the requirements.

COURSE PLATFORM:

LEB2 will be used for course material download and submission.

COURSE GRADING:

Lab/Homework	20%
Quiz	20%
Midterm Exam	20%
Final Exam	20%
Project & Presentation	20%

HONESTY POLICY:

The Computer Engineering Department's honesty policy will be strictly enforced. Any assigned work including lab work, if copied with permission, all persons involved will receive a negative score equivalent to the full score of the assigned work for first violation; a second violation will result in F for the course.

LATE POLICY:

Student are given up to one week to complete the labs/assignments. For each day late, 10% will be deducted. Work submitted after 5 days past the original due date will not be accepted and receive a zero.

COURSE SCHEDULE:

The following is a tentative course schedule. The instructor may revise parts of the outline to conform to the background, knowledge, and interests of the students.

Week	Topics	Remarks
[1] 07/08	Introduction to Text Analytics	
[2] 14/08	Pattern Matching	
[3] 21/08	Textual Data Visualization	
[4] 28/08	Web Scraping	
[5] 04/09	Textual Data Preparation for Analytics	
<i>Exam I Period - NO CLASS</i>		
[6] 18/09	Textual Feature Representation	
[7] 25/09	Midterm Exam	In-class
[8] 02/10	Text Classification	Proposal due
[9] 09/10	Text Clustering & Topic Modeling	
[10] 16/10	Extractive Summarization	
<i>National Holiday - NO CLASS</i>		
[11] 30/10	Abstractive Summarization	Progress report
[12] 06/11	Advanced Topic in Text Analytics	
[13] 13/11		TBA
[14] 20/11	Project Presentation	Project due
[15] 27/11	Final Exam	In-class

Note: Any additional modifications to the syllabus will be announced in class.