

SE 482 (953482 Natural language processing for Software Engineering

& SE 773 (963773 Artificial Intelligence Techniques In Software Engineering)

Pre-requisite SE 233 (953233), SE 411 (953411)

Instructors

**Asst. Prof. Pree Thiengburanathum
Room 415-1 CAMT Building**

Course learning outcomes (CLOs): Students are able to

1. explain the process in NLP and techniques.
2. use the appropriate models and metrics tools for the right problem.

NLP overview, word tokenization and text preprocessing, text extraction methods, machine-learning models in NLP, Deep-learning models in NLP, Transformer, model evaluation and explain-ability, evaluation metrics, NLP-based systems, and case studies

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2.	Word Tokenization, Text preprocessing	6
3.	Text extraction methods	6
4.	Machine-learning models in NLP	6
5.	Deep-learning models in NLP	6
6.	Transformers	3
7.	Evaluation metrics and explain-ability	3
8.	NLP-based Systems	3
9.	Case studies and Project	9

Grading system:

Midterm Examination	25%
Final Examination	25%
Workshops	25%
Term project	25%
Total	100%

*I have right to adjust grading system based on the student performance.

Grade policy:

- Any late assignment submissions will either be penalized (at least 50% reduction) or NOT be accepted.
- If a student is late more than 15 minutes in either lab or lecture, you will be regarded as absence.
- If a student needs to be absent with legitimate causes, please notify the lecturer or TA before the date of absence.
- The student who has come to class less than 80% will NOT allow to take the FINAL EXAM.
- The student who does not take the final exam gets “F” for this course. o The work that does not strictly follow the instruction is not accepted.

Course Texts and resources:

Course communication:

MS Teams Channel

Email: pree.t@cmu.ac.th

Course Policies

- The evaluation is based on a group reference. The letter grades will be A, B+, B, C+, C, D+, D, or F.
- The following letter grades may also be given:
 - “I” Incomplete
 - “P” In progress
 - “W” Withdrawn

I have right to adjust the grading system and course content depend on how the students perform.

Use of cell phone or laptop in the classroom is permitted only for taking note and working on course-related activities.

Cheating Policies

Academic misconduct, a.k.a., cheating, is considered as a very serious offence in any classes. It is mainly due to that, it devalues the effort of honest students. Therefore, all suspected cases will be aggressively pursued, and the confirmed cases will be punished to the full extent permitted by the university.

Policy for cheating in the courses

First offense will be resulted in zero score for the particular cheated assignment or exam.

Multiple instances of cheating of any kind will result in receiving an F for the course.