



VIETNAM NATIONAL UNIVERSITY – HO CHI MINH CITY
UNIVERSITY OF INFORMATION TECHNOLOGY

DS310

NATURAL LANGUAGE PROCESSING
For Data Science

Faculty of Information Science and Engineering
University of Information Technology, VNU-HCM

Who are we?



TS. Nguyễn Lưu Thùy Ngân
Giảng viên
PHT Trường ĐH CNTT



ThS. Nguyễn Văn Kiệt
Giảng viên
PTK KH&KTTT



ThS. Nguyễn Đức Vũ
Nghiên cứu viên, MMLAB-UIT



CN. Lưu Thanh Sơn
Trợ giảng



CN. Huỳnh Văn Tín
Trợ giảng



Nguyễn Thành Luân
Trợ giảng SV

Research Interests

- ❖ Natural Language Processing
 - AI.
 - Computational Linguistics.
 - Applications in DS.
- ❖ Text Processing.

This course's contents

❖ NLP Core

- Basic NLP concepts
- NLP pipeline: Word → POS → Parsing
- NER
- ML/DL

❖ NLP Applications

- Text Classification, Sentiment Analysis
- Information Extraction
- Question Answering, Chatbot

Evaluation

❖ **Progress: 20%.**

- Attendance, listening, respecting lecturers and friends and debating peacefully
- Quiz.

❖ **Labs: 30%.**

- Depending on the quantity and quality of your labs submitted.

❖ **Final examination: 50%**

- Project.
 - ✓ Writing report: 25%
 - ✓ Presentation: 25%

Course Objectives

- ❖ **G1:** Understand and apply **basic** concepts and techniques in NLP.
- ❖ **G2:** Understand and apply ML/DL to processing natural language.
- ❖ **G3:** Understand, apply and evaluate several NLP applications.

Final Project

- ❖ **Group: 2-3 students**
- ❖ **Beginning: 3rd week**
- ❖ **Requirements:**
 - Students must have weekly progress report
 - Implementing **only 01** NLP project.

Requirements

- ❖ **Slides:** in English/Vietnamese.
- ❖ **Lecturer:** teaching in Vietnamese
- ❖ **Students:** should take note in learning and teaching process

Contact us!

❖ **If you have any problem in your learning process and in your project, please feel free to contact us:**

- **Room:** 10.2, 10th Floor, Block E, UIT.
- **Time:** 9h00 – 10h00, Tuesday.
- **Note:** Please notify your meeting with me before at least 01 day.

Q&A



Thank you!