

Course title	Code	semester	T+U	credit	ECTS
Natural Language Processing		8	3+ 0	3	4
Prerequisite Courses					
Language of the Course	English				
Type of Course	Compulsory				
Course Coordinator					
Instructors					
Course Assistants					
The aim of lesson	To show students how written and spoken language can be understood by computers, to show how the obtained information is applied in areas such as information extraction, machine translation, automatic summary, automatic response. The course will also conduct cognitive analysis of languages in terms of grammar, meaning and context, using both linguistics and statistical techniques.				
Course Learning Outcomes	<p>At the end of this course, the student;</p> <ol style="list-style-type: none"> 1. How is the language written and spoken by computers learns to be understood. 2. Information extraction, machine translation, automatic summary, automatic response information obtained in the fields of granting can use. 3. Knowledge of linguistics and cognitive analysis of languages in terms of 				
Course Content	Introduction / Natural languages and artificial languages / N-Grams and language models / Sentence separation / Context-free grammars / Context-free grammars and natural languages / Mana analysis / Word ambiguity analysis / Summarization / Pronoun resolution / Natural language generation / Machine translation				
Weeks	Topics				
one	Entrance				
2	Natural and Artificial Languages				
3	N-Grams and Language Models				
4	Separating Sentence Elements				
5	Context Free Grammars				
6	Context Free Grammars				
7	Natural Languages				
8	Mana Analysis				
9	Word Ambiguity Analysis				
10	Summarizing				
11th	Pronoun Solution				
12	Natural Language Generation				
13	Machine Translation				
14	Machine Translation				
General Qualifications					
Learns how to understand written and spoken language by computers.					
resources					
Daniel J., & James H. (2012). <i>Speech and Language Processing</i> .					
Evaluation system					
The dates, days and hours of the Midterm Exam, Quiz, Final Exam and Evaluations will be announced later, according to the decision of the Faculty Administrative Board.					

WITH PROGRAM LEARNING OUTCOMES											
COURSE LEARNING OUTCOMES RELATIONSHIP											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
LO1	5	5	5	5	4	4	4	2	2	2	2
LO2	5	4	4	4	4	3	3	3	3	3	3
LO3	5	5	5	4	4	4	4	2	2	2	2
LO: Learning Outcomes OP: Program Outcomes											
Contribution	1 Very Low		2 Low		3 Medium		4 High		5 Very High		

Relation of Program Outcomes and Related Course

Less	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Natural Language	5	5	5	4	4	4	4	2	2	2	2