Title:

Course Formal Languages and Compilers

2022-1st Semester

[Sylabus]

Course	Category	Major selection (major selection)		Department or	School of Electrical and			
	Number(section)	40105(01)			Computer Engineering			
			-	Name				
	Title	Formal Languages and Compilers	lo otu i oto u	Phone				
	Cradit/Hours	·	Instructor	E-mail				
	Credit(Hours)	3 Credit(3 Hours)		Homepage				
	Type	lecture	-	Office Herman				
	Time(Room)	Mon 07,08,09/19-108/109		Office Hours				
	school year	4 years	Assistant	nt name & phone				
	Evaluation M	lethod	absolute d evaluation					
	☐ Attendance (☐ Participation (0%)					
Grading	☐ Assignment (☐ Midterm Report (0%) ☐ Midterm Exam (40%)				
	☐ Final Report (Other (0%)					
Тур		and Practice, PBL, Foreign Lan						
			guage , coi					
Teaching 		, Practice , Design , Project		. f				
Dia mia nia na		idered plagiarism to draw any idea or			, ,			
Plagiarism 		your work. It doesn't matter whether the source is a published author, another student, a Web site without lorship, a Web site that sells academic papers, or any other person: Taking credit for antone else's work						
	is stealing	g, and it is unacceptable in all acaden	nic situations,	whether you do i	t intentionally or by accident.			
		velcome to contact the instructor to get es by calling 02-6490-6273 to discuss t						
		Course	Objectives					
This course	provides fundament	al concepts of formal languages and sk						
1		cluded are finite automata, regular regular regular grammar, finite automata with						
		ntext-free languages and context-free turing machine and unrestricted gramma	ırs.					
g-2	<u> </u>	e Description	Textbooks and Reference Materials					
	mata, Pushdown Anguage, Turing Ma	automata, Regular Language, Non-	David Callag	Madara Campila	r Decign			
Learn the b	asic theory of com	piler in	David Galles, Modern Compiler Design					
generation,	optimization, etc.	nalysis, semantic analysis, code						
	nd principles of ea Ito-generation tool	ch step are covered. Also, the						
Learn the sl	kills to implement a	a small-scale compiler using						
Specialty competency			Representative competency					
Knowledge Application				Primary				
Analysis Experiment								
	Probl	em Definition						
	Resou	rce Utilization		Secondary				
	Plar	ning Ability						
	coop	erative ability						
	Commi	unicative Skills						

Specialty competency	Representative competency		
Effect Understanding			
Vocational Ethics			

Course Title: Formal Language and Compiler

2022year 1st Semester

[Weekly Lesson Plan]

Week	Contents	Teaching Method	Teaching Materials	Requirements, Assignments, etc.
One	Introduction	Lecture		Textbook
2	Lexical Analysis I	Lecture		Textbook
3	Lexical Analysis II	Lecture		Textbook
4	Context-free Grammers	Lecture		Textbook
5	Top-down Parsing I	Lecture		Textbook
6	Top-down Parsing II	Lecture		Textbook
7	Bottom-up Parsing	Lecture		Textbook
8	Review and Evaluation	Questions and Answers, Test		Textbook
9	Abstract Syntax Trees	Lecture		Textbook
10	Semantic Analysis I	Lecture		Textbook
11	Semantic Analysis II	Lecture		Textbook
12	Supplementary Week			
13	Assembly Trees	Lecture		Textbook
14	Code Generation	Lecture		Textbook
15	Memory Management	Lecture		Textbook
16	Review and Final exam	Questions and Answers, Test		Textbook