	COURSE DESCRIPT	TION FORM		
Course Code and Name	CENG491 SYSTEM PROGRAM	IMING (TECH	H.ELECT.)	
	7			
Course Semester  Catalogue Data of the Course (Course Content)	Loader, Connector, Micro progra Design and implementation of a machine architecture and system introduction	variety of sys	tem software, The relati	onship between
Course Textbooks	The Linux Programming Inter Handbook, Michael Kerrisk, 2010		ux and UNIX System	Programming
Supplementary Textbooks	Advanced Programming in the U Steven A Rago, Addison-Wesley Understanding UNIX/LINUX Pro Bruce Molay, Prentice Hall, 2002	, 2013 ogramming: A	•	
Credit (ECTS)	6			
Prerequisites for the Course (Attendance Requirements)	There is no prerequisite or co-req	uisite for this	course.	
Course Type	Elective			
Language of Instruction	English			
Course Objectives	Providing current knowledge an and target program, Re-entere techniques.			
Course Learning Outcomes	<ol> <li>Defines symbolic programming</li> <li>Explains the concepts of source reexecutable program.</li> <li>Applies addressing techniques.</li> </ol>	e and target pr	ogram, reenterable progr	ram,
Instruction Method (Face-to-face, Distance education etc.)	The mode of delivery of this cou		face.	
Weekly Schedule of the Course	<ol> <li>Week: Symbolic programm</li> <li>Week: Source and object program</li> <li>Week: Re-enter the program</li> <li>Week: Re-run the program</li> <li>Week: Addressing technique</li> <li>Week: Parameter community</li> <li>Week: Operating string-symprogramming techniques</li> <li>Week: Loader, Connector, Naconverters</li> <li>Week: Design and impleme</li> <li>Week: The relationship betweek: Windows, Unix oper</li> <li>Week: Assembly languages</li> <li>Week: Machine-dependent at Week: Program blocks. Assemble</li> </ol>	ogram es, the concept cation technique abolic relations dicro program nutation of a va veen machine ating systems, assembly, macer design, MA	ship between the programming, single and double- riety of system software architecture and system software the introduction	-pass symbolic software
Teaching Activities (The time spent for the activities listed here will determine the amount of credit required)	Weekly theoretical course hours: Reading Activities Midterm and revision for midtern Final exam and revision for final	n		
,		Number(s	Weight (%)	
Assessment Criteria	Midterm exam Assignment Application Project	1 5	30 30	

	Practice								1		
	Quiz								1		
	Final exa	m		1	40						
	Total			7	100						
			Activity		Number of Weeks	Duratio (Week Hour	ly	So	emo To	l of este tal kloa	r
	We	ekly the	eoretical course	e hours	14	3		42			
	We	ekly pr	actical course l	nours	0	0		0			
	Rea	ading ac	ctivities		12	4		48			
	Inte	ernet se	arch and librar	y work							
W. 11 1 4 1 G			and implement	ting							
Workload of the Course		terials									
		king a 1	-								
			and making pre								
			nd revision for		1	15		15			
	Fin	al exan	and revision f	or final	1	15		15			
	exa				-						$\dashv$
		al work						150	)		_
			tload/ 25					6			_
	Соц	urse Cre	edit (ECTS)					6			
Contribution Level	]	No	]	Program Çık	tıları		1	2	3	4	5
between Course Outcomes			Knowledge of								
and Program Outcomes		1	engineering, c								x
			engineering; a								
			solving compl Ability to defi								
			complex engin								
		2	science, mathe								
		2	knowledge an					X			
			Sustainable D	-	Goals relev	vant to					
			the problems a		solutions to	)					
			complex engin	neering prob	lems; abili	ty to					
		3	design comple								
			software, algo							X	
			current and fu realistic const			sidering					
			realistic collsti	ianns and CC	mannons.						
			Ability to sele	ct, use and o	develop						$\dashv$
			appropriate te			1					
			modern engin								
		4	including estin			or the		x			
			analysis and se			vore of					
			engineering pr		ie being av	vare of					
			Ability to use		thods to ex	amine					
			complex engin								
			topics in comp	outer engine	ering, inclu						
		5	reviewing the								
			experiments, o								
			collecting data results.	i, analyzing	and interpi	reting					
		6	Knowledge of	the effects	of engineer	ing					
			practices and								
			practices on so								

economy, sustainability and environment within the scope of the UN Sustainable Development Goals; awareness of the consequences of engineering solutions in the fields of information security and law.  Acting in accordance with engineering professional principles and knowledge on ethical responsibility; awareness of acting impartially, without discrimination on any issue, and being inclusive of diversity.  Ability to work effectively individually and as a team member or leader in intradisciplinary and multidisciplinary
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as a team member or leader in
Intradisciplinary and multidisciplinary
teams (face-to-face, remote, or hybrid).
Ability to conduct effective verbal and
written communication on technical issues
in Turkish or English, prepare reports, make
9 effective presentations and prepare software   x
documentation, considering the various
differences of the target audience (such as
education, language, profession).
Knowledge of business practices such as
project, risk and change management and
economic feasibility analysis; awareness of
entrepreneurship and innovation.
Lifelong learning skill that includes the
ability to learn independently and
continuously, to adapt to new and
developing scientific practices and
technologies, and to think inquisitively
about technological changes.
Lecturer(s) and Contact Prof. Dr. Hacer KARACAN
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