

COURSE INFORMATION					
Course Title	Code	Semester	L+P Hour	Credits	ECTS
QUALIFYING EXAM PREPARATION	CSE691			NC	30

Prerequisites	
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Language of Instruction	English
Course Level	Ph.D.
Course Type	Compulsory
Course Coordinator	Esin Onbaşıoğlu
Instructors	
Assistants	
Goals	This course is designed to prepare the Ph.D. students for the qualifying exam.
Content	In this course, the student carries out an independent study to prepare for the qualifying exam. At the end of the course, the student takes a written and oral qualifying exam to demonstrate that he/she has sufficient knowledge about the fundamental subjects in his/her field and that he/she is capable of conducting scientific research towards writing a Ph.D. thesis.

Course Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
Possess adequate knowledge of fundamental subjects within the field of study	1,2,3,4,8,9,12	1	A
Ability to conduct research in the area of concentration	2,3,4,5	1	A
Ability to contribute to the existing scientific knowledge in the area of concentration	5,6,7,8,9,10,11	1	A
Ability to communicate technical content in writing and orally	7	1	A

Teaching Methods:	1: Independent study
Assessment Methods:	A: Qualifying Exam (written and oral)

COURSE CONTENT		
Week	Topics	Study Materials
1-14	Independent study in preparation for the qualifying exam	Variety of textbooks in the field of Computer Engineering, books and articles related to the thesis topic.

RECOMMENDED SOURCES	
Textbook	
Additional Resources	

MATERIAL SHARING	
Documents	
Assignments	
Exams	

ASSESSMENT			
	IN-TERM STUDIES	NUMBER	PERCENTAGE
Qualifying exam (written)		1	50
Qualifying exam (oral)		1	50
	Total		100
Contribution of Final Examination to Overall Grade			100
Contribution of In-Term Studies to Overall Grade			0
	Total		100

COURSE CATEGORY	Expertise
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COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution				
		1	2	3	4	5
1	Ability to understand and use basic sciences, mathematics and engineering sciences in a high level.					X
2	Possession of wide and deep knowledge in the field of Computer Science and Engineering, including the latest developments.					X
3	Ability to reach the new information in the field of Computer Science and Engineering and having high-level competence in necessary methods and skills to make the research by apprehending the new information.					X
4	Ability to bring an innovation that provides different initiatives to the field of Computer Engineering; develop a new approach, method, design, application or apply a present method in a different field.					X
5	Ability to perceive an original research process independently, and design, implement, conclude and lead the process.		X			
6	Ability to contribute to the literature by publishing the whole scientific research and development efforts he/she has carried out in the field of expertise.	X				
7	Ability to comprehend scientific, technological, social and cultural developments, and convey them to society with scientific impartiality and ethical responsibility.					X
8	Ability to do critical analysis, synthesis and evaluation of ideas and developments in the field of Computer Engineering.					X
9	Ability to communicate effectively in oral and written ways with the employees in the area of Computer Engineering and wider scientific and social communities, to communicate and discuss in advanced level of written, oral and visual ways by using a foreign language in at least European Language Portfolio C1 General Level.				X	
10	Ability to evaluate scientific, technological, social and cultural developments and to transmit these developments to society with scientific objectivity and a sense of ethic responsibility.			X		

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
Activities	Quantity	Duration (Hour)	Total Workload (Hour)
Independent study	1	750	750
Qualifying exam (written)	1	4	6
Qualifying exam (oral)	1	2	2

Total Work Load			752
Total Work Load / 25(h)			30.32
ECTS Credit of the Course			30