



COURSE INFORMATION				
Course Code	MSN 691	Course Title	Preparation for the Qualifying Exam	
<i>Semester</i>	<i>Credits</i>	<i>ECTS</i>	<i>C + P + L Hour</i>	<i>Prerequisites</i>
	Non-credits	30		-

Language of Instruction	Course Level	Course Type
English	Graduate	Core
Course Coordinator	Dr. Öğr. Üyesi Ayşe Dulda	
Instructors	Dr. Öğr. Üyesi Ayşe Dulda	
Assistants		
Goals	This course is designed to prepare doctoral students for doctoral qualifying exams.	
Content	In this course, the student conducts an independent study to prepare for the doctoral qualifying exam. In the written and oral proficiency exam administered at the end of the course, the student must show that he / she has sufficient knowledge about the basic subjects in his / her field and that he can carry out a scientific research for his doctoral thesis.	
Contribution of the Course to the Professional Education		

Course Learning Outcomes	Detailed Program Outcomes	Teaching Methods	Assessment Methods
To have sufficient knowledge about the basic issues in the field	1a, 4b	1, 2, 6	A, G
To have the ability to conduct research in the field of specialization	1a, 4b	1, 2, 6	A, G
To contribute to scientific knowledge in the field of expertise	1a, 4b, 6c	1, 2, 6	A, G



To be able to express technical content in written and verbal form	4b,7a, 7b, 7d, 8b	1, 2, 6	A, G
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Teaching Methods:	1: Lecture by instructor, 2: Lecture by instructor with class discussion, 3: Problem solving by instructor, 4: Use of simulations, 5: Problem solving assignment, 6: Reading assignment, 7: Laboratory work, 8: Term research paper, 9: Presentation by guest speaker, 10: Sample Project Review, 11: Interdisciplinary group working, 12: ...
Assessment Methods:	A: Written exam, B: Multiple-choice exam C: Take-home quiz, D: Experiment report, E: Homework, F: Project, G: Presentation by student, H: ...

COURSE CONTENT		
Week	Topics	Study Materials
1-14	Independent study to prepare for the qualifying exam	Textbooks, literature

RECOMMENDED SOURCES	
Textbook	
Additional Resources	

MATERIAL SHARING	
Documents	
Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Proficiency exam (written)	1	50
Proficiency exam (oral)	1	50
Total		100



CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE		
CONTRIBUTION OF IN-TERM STUDIES TO OVERALL GRADE		
Total		100

COURSE CATEGORY	Field Course
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COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES		
No	Program Learning Outcomes	check √
1a	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline,	√
1b	Ability to use theoretical and applied knowledge in these areas in complex engineering problems.	
2a	Ability to identify, formulate, and solve complex engineering problems,	
2b	Ability to select and apply proper analysis and modeling methods for this purpose.	
3a	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result,	
3b	Ability to apply modern design methods for this purpose.	
4a	Ability to devise, select and use modern techniques and tools needed for analyzing and solving complex problems encountered in engineering practice.	
4b	Ability to employ information technologies effectively.	
5a	Ability to design experiments for investigating complex engineering problems or discipline specific research questions,	
5b	Ability to conduct experiments, gather data, analyze and interpret results for investigating complex engineering problems or discipline specific research questions.	
6a	Ability to work efficiently in intra-disciplinary teams,	
6b	Ability to work efficiently in multi-disciplinary teams,	
6c	Ability to work individually.	√
7a	Ability to communicate effectively in Turkish, both orally and in writing,	√
7b	Knowledge of a minimum of one foreign language,	
7c	Ability to write effective reports and comprehend written reports, prepare design and production reports,	
7d	Ability to make effective presentations,	√
7e	Ability to give and receive clear and intelligible instructions.	



8a	Recognition of the need for lifelong learning, ability to access information, ability to follow developments in science and technology,	
8b	Ability to continue to educate him/herself.	√
9a	Consciousness to behave according to ethical principles and professional and ethical responsibility.	
9b	Knowledge on standards used in engineering practice.	
10a	Knowledge about business life practices such as project management, risk management, change management.	
10b	Awareness in entrepreneurship and innovation.	
10c	Knowledge about sustainable development.	
11a	Knowledge about the global and social effects of engineering practices on health, environment, and safety,	
11b	Knowledge about contemporary issues of the century reflected into the field of engineering.	
11c	Awareness of the legal consequences of engineering solutions.	

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
Activities	Quantity	Duration (Hour)	Total Workload (Hour)
Independent Study	1	750	750
Qualificatio exam (written)	1	4	4
Qualificatio exam (oral)	1	2	2
Total Work Load			756
Total Work Load / 25 (h)			30,32
ECTS Credit of the Course			30

Prepared by: Dr. Öğr. Üyesi Ayşe Dulda	Preparation date: 31.1.2020
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