COURSE INFORMATON					
Course Title	Code	Semester	L+P Hour	Credits	ECTS
Qualifying Exam Preparation	CHBE 691			NC	30

Prerequisites

Language of Instruction	English
Course Level	Ph.D.
Course Type	Compulsory
Course Coordinator	Süheyla Uzman
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 reseach towards writing a Ph.D. thesis.

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

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 Chemical 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	Cor		Contribution		
110	Trogram Learning Gateomes	1	1 2 3 4 5			
1	Understand and apply natural sciences, mathematics and engineering sciences in advanced level.				X	
2	Have a wide and deep knowledge in his/her field including the latest progresses.				X	
3	Reach the latest knowledge in the field and through its comprehension possess high level competence in required methods and skills for doing research.				X	
4	Ability to do an extensive study which brings in novelty to science and technology, develop a new scientific method or technological product/process, or apply a know method to a new field.				X	
5	Understand a genuine research process independently, design, apply and carry through; manage the process				X	
6	Contribute to science and technology literature by publishing the outcomes of his/her academic studies in prestigious media.				X	
7	Able to do critical analysis, synthesis and evaluation of ideas and progresses in his/her specialization.				X	
8	Able to communicate and discuss at high level orally, written and visually by using a language at least at the level of European Language Portfolio C1 orally and written.				X	
9	Able to communicate with persons in his/her career and widely with scientific and social ensemble orally and written.				X	
10	Able to evaluate scientific, technological, social and cultural developments and transfer them to society with senses of scientific disinterest and ethical responsibility.					

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