1. Course Description

<table>
<tr><th colspan="2">COURSE DESCRIPTION FORM</th></tr>
<tr><td>Course Code and Title</td><td>KM491 GRADUATION PROJECT (SE)</td></tr>
<tr><td>Course Semester</td><td>7</td></tr>
<tr><td>Catalog Description (Content) of the Course</td><td>Study on a project, which requires synthesis of knowledge gained in the chemical engineering program.</td></tr>
<tr><td>Main Textbook</td><td>Periodicals, Library facilities, Web sources</td></tr>
<tr><td>Supporting Textbooks</td><td>Contact with experts</td></tr>
<tr><td>Course Credit (ECTS)</td><td>2</td></tr>
<tr><td>Prerequisites of the Course (Compulsory attendance should be indicated here.)</td><td>Those who will graduate within three semesters. There is 80% attendance requirement.</td></tr>
<tr><td>Type of the Course</td><td>Compulsory</td></tr>
<tr><td>Instruction Language of the Course</td><td>Turkish</td></tr>
<tr><td>Object and Target of the Course</td><td>To teach students the basics of an original research, To gain basic steps and methods in a research, to provide the basis for theoretical / experimental studies to be carried out in KM492.</td></tr>
<tr><td>Learning Outcomes of the Course</td><td>1. Ability to access information on any research
2. Recognition of the need for lifelong learning
3. Ability to access information, to follow developments in science and technology, and to continue to educate him/herself.
4. Understanding written documents (articles, reports, etc.) effective report writing skills</td></tr>
<tr><td>Mode of Delivery</td><td>Face to face education</td></tr>
<tr><td>Weekly Schedule of the Course</td><td>1-2. Week : Project selection
3-4. Week : The creation of theoretical basis
5-9. Week : Literature survey
10-11. Week: Evaluation and plan of Research Project (KM 492).
12-14. Week : Report Writing</td></tr>
<tr><td>Educative Activities
(Credit will be determined based on the time given for these activities. Should be filled carefully.)</td><td>Practicing Hours of Course Per Week
Reading
Searching in Internet and Library
Preparing Reports</td></tr>
<tr><td>Assessment Criteria</td><td>
<table>
<tr><th></th><th>Quantity</th><th>Total Contribution (%)</th></tr>
<tr><td>Midterm</td><td>0</td><td>0</td></tr>
<tr><td>Homework</td><td>0</td><td>0</td></tr>
<tr><td>Assignment</td><td>0</td><td>0</td></tr>
<tr><td>Projects</td><td>1</td><td>100</td></tr>
<tr><td>Practice</td><td>0</td><td>0</td></tr>
<tr><td>Quiz</td><td>0</td><td>0</td></tr>
<tr><td>Contribution of In-term Studies to Overall Grade</td><td></td><td>100</td></tr>
<tr><td>Contribution of Final Examination to</td><td>0</td><td>0</td></tr>
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Overall Grade			
Attendance			

Workload of the Course

Activity	Total Week Count	Weekly Duration (in hour)	Total Workload in Semester
Theoretical Study Hours of Course Per Week	0	0	0
Practicing Hours of Course Per Week	14	2	28
Reading	6	2	12
Searching in Internet and Library	6	2	12
Designing and Applying Materials	0	0	0
Preparing Reports	3	2	6
Preparing Presentation	0	0	0
Presentation	0	0	0
Mid-Term and Studying for Mid-Term	0	0	0
Final and Studying for Final	0	0	0
Other	0	0	0
Total work load			58
Total work load/25			2.32
ECTS of the course			2

Course's Contribution To Program

No	Program Learning Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.			X		
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.			X		
3	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; ability to apply modern design methods for this purpose.	X				
4	Ability to devise, select, and use modern techniques and tools needed for engineering practice; ability to employ information technologies effectively.			X		
5	Ability to design and conduct experiments, gather data, analyze and interpret results for investigating engineering problems.			X		
6	Ability to work efficiently in intra-disciplinary teams.	X				
7	Ability to work efficiently in multi-disciplinary teams;	X				
8	Ability to work individually.					X
9	Ability to communicate effectively in				X	

		Turkish/English, both orally and in writing; Ability to write effective reports and comprehend written reports, make effective presentations,					
	10	prepare design and production reports, give and receive clear and intelligible instructions.	X				
	11	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.					X
	12	Awareness of professional and ethical responsibility.			X		
	13	Information about business life practices such as project management, risk management, and change management.	X				
	14	Information about awareness of entrepreneurship, innovation, and sustainable development.			X		
	15	Knowledge about contemporary issues and the global and societal effects of engineering practices on health, environment, and safety.			X		
	16	Knowledge about awareness of the legal consequences of engineering solutions.	X				
	17	Knowledge on standards used in engineering practice.	X				
Name of Lecturer(s) and Contact Information	Head of Department : kimyamuhendisligi@gazi.edu.tr						