

COURSE INFORMATION					
Course Title	Code	Semester	L+P Hour	Credits	ECTS
MASTER'S SEMINARS	CHBE 590	1	0+0	0	2

<b>Prerequisites</b>	-
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<b>Language of Instruction</b>	English
<b>Course Level</b>	Master's Degree (Second Cycle Programmes)
<b>Course Type</b>	Compulsory
<b>Course Coordinator</b>	
<b>Instructors</b>	
<b>Assistants</b>	
<b>Goals</b>	The aim of this course is, to broaden the student's mind in recent topics with the seminars given by guest speakers, academicians and graduate students from Chemistry, Chemical Engineering and Bioengineering disciplines.
<b>Content</b>	Seminar presentation about the research topics in Chemistry, Chemical Engineering and Bioengineering and learn the presented topics.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1) He/She gathers together the basic information on which the research topic is based on.	1,2,3	1, 4	
2) He/She analyzes the research data and presents them in a report.	5,11	1,3,4	
3) He/She prepares a presentation and gives this presentation in which the gathered information and discussed results are introduced.	8,9	1,2,4	
4) He/She analyzes the presentation, considers the results from different point of	1,8	2	

view and asks questions.			
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<b>Teaching Methods:</b>	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Case Study
<b>Assessment Methods:</b>	A: Testing, C: Homework

<b>COURSE CONTENT</b>		
<b>Week</b>	<b>Topics</b>	<b>Study Materials</b>
1	SEMINAR	BOOKS, ARTICLES, EXPERIMENT ANALYSES
2	SEMINAR	BOOKS, ARTICLES, EXPERIMENT ANALYSES
3	SEMINAR	BOOKS, ARTICLES, EXPERIMENT ANALYSES
4	SEMINAR	BOOKS, ARTICLES, EXPERIMENT ANALYSES
5	SEMINAR	BOOKS, ARTICLES, EXPERIMENT ANALYSES
6	SEMINAR	BOOKS, ARTICLES, EXPERIMENT ANALYSES
7	SEMINAR	BOOKS, ARTICLES, EXPERIMENT ANALYSES
8	SEMINAR	BOOKS, ARTICLES, EXPERIMENT ANALYSES
9	SEMINAR	BOOKS, ARTICLES, EXPERIMENT ANALYSES
10	SEMINAR	BOOKS, ARTICLES, EXPERIMENT ANALYSES
11	SEMINAR	BOOKS, ARTICLES, EXPERIMENT ANALYSES
12	SEMINAR	BOOKS, ARTICLES, EXPERIMENT ANALYSES

		ANALYSES
13	SEMINAR	BOOKS, ARTICLES, EXPERIMENT ANALYSES
14	SEMINAR	BOOKS, ARTICLES, EXPERIMENT ANALYSES

RECOMMENDED SOURCES	
<b>Textbook</b>	
<b>Additional Resources</b>	Academic publications

MATERIAL SHARING	
<b>Documents</b>	
<b>Assignments</b>	
<b>Exams</b>	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
-	-	-

<b>COURSE CATEGORY</b>	Expertise Course
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COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution				
		1	2	3	4	5
1	Acquire expanded and in-depth information via performing scientific research in the field of Chemical Engineering, evaluate, interpret and implement knowledge.					X
2	Be knowledgeable in the contemporary techniques and methods applied in Chemical Engineering and their respective constraints.					X
3	Be cognizant of the novel and developing applications of his/her profession, study and learn them as required.					X
4	Formulate Chemical Engineering problems, develop methods to solve them and implement innovative techniques in solutions					

5	Design and conduct analytical modeling and experimental research, analyze and interpret complex problems encountered in this process.					
6	Develop novel and/or original ideas and methods; conceive innovative solutions in systems, component and process design					
7	Complete information via processing limited or incomplete data by the use of scientific methods and implement it; integrate knowledge from different disciplines					
8	Communicate in at least one foreign language at the level of European Language Portfolio B2 orally and in writing.					X
9	Communicate stages and results of his/her studies in a systematic and clear manner orally or in writing in intra or interdisciplinary national and international settings.					X
10	Defines societal and environmental aspects of Chemical Engineering applications					
11	Observe social, scientific and ethical values during collection, interpretation, and dissemination of data and in all professional activities.					X
12	Lead multidisciplinary teams, develop solution methodologies for complex problems and take responsibility					

<b>ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION</b>			
Activities	Quantity	Duration (Hour)	Total Workload (Hour)
Course Duration (Including the exam week: 16x Total course hours)	14	2	28
Hours for off-the-classroom study (Pre-study, practice)	1	20	20
<b>Total Work Load</b>			48
<b>Total Work Load / 25 (h)</b>			1,92
<b>ECTS Credit of the Course</b>			2