

Chemistry (English)			
Bachelor	TR-NQF-HE: Level 6	QF-EHEA: First Cycle	EQF-LLL: Level 6

Course Introduction and Application Information

Course Code:	JOB123						
Course Name:	Resin with İzel Kimya: Basics of Sectoral Knowledge from Raw Material to Paint						
Semester:	Spring Fall						
Course Credits:	<table border="1"> <tr> <td>ECTS</td> </tr> <tr> <td>5</td> </tr> </table>			ECTS	5		
ECTS							
5							
Language of instruction:	English						
Course Condition:							
Does the Course Require Work Experience?:	Yes						
Type of course:	Departmental Elective						
Course Level:	<table border="1"> <tr> <td>Bachelor</td> <td>TR-NQF-HE:6. Master`s Degree</td> <td>QF- EHEA:First Cycle</td> <td>EQF-LLL:6. Master`s Degree</td> </tr> </table>			Bachelor	TR-NQF-HE:6. Master`s Degree	QF- EHEA:First Cycle	EQF-LLL:6. Master`s Degree
Bachelor	TR-NQF-HE:6. Master`s Degree	QF- EHEA:First Cycle	EQF-LLL:6. Master`s Degree				
Mode of Delivery:	Face to face						
Course Coordinator:	Dr. Öğr. Üy. MELİKE ATAKOL						
Course Lecturer(s):	Elif Cerrahoğlu Kaçakgil						
Course Assistants:							

Course Objective and Content

Course Objectives:	The aim of this course is to provide students with in-depth information about synthetic resin production and to prepare them to be competent and contribute to the workforce in this field, which is an important branch of industrial chemistry.

Course Content:	Understanding Industry Business Processes, Teaching Synthetic Resin Production Processes, Understanding Industry Needs, Environmental and Economic Sustainability, R&D and Innovative Product Development, Developing Communication Skills with Industry, Providing Workforce and Career Opportunities
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Learning Outcomes

<p>The students who have succeeded in this course;</p> <ol style="list-style-type: none"> 1) 1) Understand synthetic resin production processes. 2) 2) Recognize industrial chemistry applications. 3) 3) Develop R&D and innovative product development skills. 4) 4) Can improve communication skills with industry. 5) 5) Have knowledge about career opportunities and the labor market.

Course Flow Plan

Week	Subject	Related Preparation
1)	İzel Kimya Introduction	-
2)	R&D (Research and Development) and Processes	-
3)	R&D (Research and Development) and Processes	-
4)	Quality Control (QC) and Analysis Methods	-
5)	Quality Control (QC) and Analysis Methods	-
6)	Purchasing and Supply Chain Management	-
7)	Purchasing and Supply Chain Management	-
8)	Midterm	-
9)	Quality Management and Standards	-
10)	Quality Management and Standards	-
11)	Production Processes and Productivity Management	-
12)	Production Processes and Productivity Management	-
13)	Sales and Marketing Strategies	-
14)	Sales and Marketing Strategies	-

Sources

Course Notes / Textbooks:	-
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References:	-
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Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4	5
Program Outcomes					
1) Knows the basic concepts related to the theory and applications of chemistry, uses theoretical and applied knowledge, can select, develop and design methods.					
2) Makes experimental planning and application for analysis, synthesis, separation and purification methods, provide solutions to the problems encountered and interpret the results.					
3) Expresses the basic principles of sample preparation techniques and instrumental analysis methods used in qualitative and quantitative analysis of items, discusses their application areas.					
4) Has knowledge about the sources, production, industrial applications and technologies of chemical substances.					
5) Makes structural analyzes of chemical substances and interprets the results.					
6) Work individually and in multidisciplinary groups, take responsibility, plan their tasks and use time effectively.					
7) Follows the information in the field and communicates with colleagues by using English at a professional level.					
8) Uses information and communication technologies along with computer software at the level required by the field.					
9) Follows the national and international chemistry literature, transfers the knowledge gained orally or in writing.					
10) Determines self-learning needs, manages/directs his/her learning.					
11) Takes responsibility and adheres to the ethical values required by these responsibilities.					

Course - Learning Outcome Relationship

No Effect	1 Lowest	2 Average	3 Highest

	Program Outcomes	Level of Contribution
1)	Knows the basic concepts related to the theory and applications of chemistry, uses theoretical and applied knowledge, can select, develop and design methods.	
2)	Makes experimental planning and application for analysis, synthesis, separation and purification methods, provide solutions to the problems encountered and interpret the results.	
3)	Expresses the basic principles of sample preparation techniques and instrumental analysis methods used in qualitative and quantitative analysis of items, discusses their application areas.	
4)	Has knowledge about the sources, production, industrial applications and technologies of chemical substances.	
5)	Makes structural analyzes of chemical substances and interprets the results.	
6)	Work individually and in multidisciplinary groups, take responsibility, plan their tasks and use time effectively.	
7)	Follows the information in the field and communicates with colleagues by using English at a professional level.	
8)	Uses information and communication technologies along with computer software at the level required by the field.	
9)	Follows the national and international chemistry literature, transfers the knowledge gained orally or in writing.	
10)	Determines self-learning needs, manages/directs his/her learning.	
11)	Takes responsibility and adheres to the ethical values required by these responsibilities.	

Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution
Homework Assignments	4	% 20
Midterms	1	% 30
Final	1	% 50
total		% 100
PERCENTAGE OF SEMESTER WORK		% 50

PERCENTAGE OF FINAL WORK		% 50
total		% 100

Workload and ECTS Credit Calculation

Activities	Number of Activities	Workload
Course Hours	14	42
Midterms	1	2
Final	1	2
Total Workload		46