

YOZGAT BOZOK UNIVERSITY FACULTY OF ARTS AND SCIENCES CHEMISTRY DEPARTMENT COURSE PLAN

Cours Code		Semes ter	Course Type (C/E)	T+A+L (Time/Week)	Credi t	ECT S	Course Language
KİM12	Mathematics II	Spring	C	2+2+0		5	Turkish
	'	COURSE	INFORMA	TION	,		
Course (Conte	e Catalog Description ent)	Indefinite in (generalized	•	nite integral and	d its ap	plicatio	ns. Imprope
	m of the Course	ngineering a	and applications at the undergradu			tics course ir	
Course	e Level	Bachelor de	gree				
Course	e Language	Turkish					
Геасhi	ing method	(X) Formal	() Online	e () Mixed/Hyb	rid		
Геасhi	ing Staff of the Course	Related Lec	turers				
Course							
Course	ng Outcomes from the	integration 2. Calculate 3. Calculate substitutio 4. Calculate 5. Solve spe 6. Calculate	n method integrals of the indefinitens. the integral cific Integral the area and	tegrals with varial rational, irrational e integral by mak using the definition of custom defined volumes of solice	and trigoring variories an of deficed function	onomet us varia nite inte ns.	ric functions. able egral.
		CC	URSE CON	NTENT			
Week	Theory		Pr	actice/Laboratory	•		
1	Indefinite integrals, integration		10				
2	Variable substitution method, Substitutions	Special Variable					
3	Partial integration method, Sim	nple fractionation	method				
4	Trigonometric Integrals						
5	Irrational Integrals						
6	Definite integral definition, Fundamental Theorem of Calculus		em of		1		
7	Definite Integral, Mean Value Boundaries according to the new		ng the		V		
8	Calculation of area using defin						
9	Calculation of volume using definite integral						
10	Calculation of volume using de	efinite integral					
11	Length of curve arc						
12	Areas of Surfaces of revolution						
	Improper Integrals						
13	Improper Integrals						
13 14	Improper Integrals	Final Exam					
	Improper Integrals		Final Exar	n			



Work Activities During the Semester	Number	Contribution
Homework	1	%30
Practice		
Forum/ Discussion Application		
Short Exam (Quiz)	2	%35
Ratio Of Semester Studies To Semester Success (%)		%40
Ratio of Final to Success (%)	1	%60
Total		%100

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Activity	Total Weeks	Duration (Weekly Hours)	Total Workload
Theory	14	4	56
Practice			
Forum/ Discussion Application			
Reading	14	2	28
Internet Scanning, Library Study	14	2	28
Material Design, Application			
Report Preparation			
Presentation Preparation			
Presentation			
Final Exam	1	1	1
Preparation for the Final Exam	2	6	12
Other(s) (Specify:)			
Total Workload		1)	
Total Workload / 25 (s)			125/25
ECTS Credits of the Course	10		125/25≌5
Maria Than and Landard diagrams on 1911 and date			

Note: The workload of the course will be determined by the instructor on a per-course basis.

PROGRAM LEARNING OUTPUTS CONTRIBUTION LEVELS No Program Learning Outputs 1 2

No	Program Learning Outputs	1	2	3	4	5
1	Gains extensive knowledge about the basic chemical properties of matter and uses this knowledge in daily life, industrial scale, and practical chemistry and shares them with the society.	X				
2	Performs experiments, collects data, interprets, evaluates results, defines problems parallel to current technological developments, produces solutions against problems encountered in the laboratory.	X				
3	Calculates and processes chemical information and data.					Х
4	Applies her/his knowledge and understanding of chemistry to the solution of unconventional qualitative and quantitative problems.	Х				
5	Defines and comprehends chemical concepts and theories in Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry, Biochemistry.	Х				
6	Can conduct research in the light of scientific data on any subject in the field of chemistry.	X				
7	Writes, presents, discusses scientific material, and presents it orally to a knowledgeable audience.	X				
8	Brings a chemical approach to the solution of environmental problems, makes environmental analyzes and reports.	X				
9	Knows a foreign language at a level to read and understand the basic terms and processes of the chemist profession.	X				



10	Can use computer software and information and communication technologies at the level required by the field.	X		
11	Adapts and transfers the knowledge gained in the field to secondary education.	X		
12	Apart from the field of chemistry, she/he gains knowledge in different branches of science that she feels close to.	X		
13	Carries out a study independently, makes group work and gains the awareness of taking responsibility.	X		
14	They can develop a positive attitude towards lifelong learning and constantly renew their professional knowledge and skills.	X		
15	Have sufficient awareness of the universality of social rights, social justice, quality culture and protection of cultural values, environmental protection, occupational health and safety.	x		

