## EĞİTİMDE REVİZYON KAPSAMINDA ÖNERİLEN LİSANS PROGRAMI

					(					ING DEPARTMENT								
	1 Samasta	r Courses					UNDE	RGRADU		RSES (2025-2026)								
	1. Semester Code	Course Name	Т	P	L	С	ECTS	PR	2. Semeste Code	Course Name	Т	J	٠,	L	C	E	CTS	PR
	TBMAT113	Calculus I	2	2	0	3	5		TBMAT114	Calculus II	2	12	2	0	3		5	
~	TBKİM115	Chemistry I	3			4				Chemistry II	3		1		4		6	
YEAR	TBFİZ123 KMB107	Physics I Computer Programming	2			3			TBFİZ124 KMB106	Physics II Computer Aided Technical Drawins	2	-		2	3		5	
Z	KMB109	Introduction to Chemical Engineering	1			1			KMB108	Scientific Research Methods and Ethics	1				2		2	
<del>-</del> i	ATİ101	Principles of Atatürk and History of Revolution I	2	0	0	2	2		ATİ102	Principles of Atatürk and History of Revolution II	2	(	1	0	2	1	4	
	YD113	Foreign Language l	1	2	0	2	2		YD114	Foreign Language II	1	2	†	0	2	t	2	
	SSD1	Social Elective Course	2	0	0	2	2				I	İ	I					
	3. Semester	TOTAL Courses	16	6	4	21	30	<u> </u>	4. Semeste	TOTAL r Courses	14	. 8		4	20	L	30	
	Code	Course Name	Т	P	L	С	ECTS	PR	Code	Course Name	Т	I	٠,	L	C	E	CTS	PR
	KMB201	Physical Chemistry	3	0			5		KMB202	Engineering Numerical Methods	3			0			5	
ي	KMB203	Chemical Process Calculations	4	0	0	4	5		KMB258	Fluid Mechanics	3	(	1	0	3	1	6	TBMAT113 TBMAT114
YEAR	KMB205	Engineering Statistical Methods	2	0	0	2	3		KMB260	Material Science	2	(	,	0	2	H	4	I DMAIII4
Ξ	KMB215	Organic Chemistry	3	0			5		KMB262	Analytical Chemistry	2			2	3		5	
4	KMB217 İSG101	Differential Equations Occupational Health and Safety I	2	0	0	2	2		SSD2 İSG102	Social Elective Course II Occupational Health and Safety II	2	_		0	2		2	
	TDİ101	Turkish Language I	2			2	2		TDİ102	Turkish Language II	2	-		0	2		2	
	YDİ213	Advanced English I	2	2	0	3	4		YDİ214	Advanced English II	2	12	2	0	3		4	
	E Composton	TOTAL	21	2	2	23	30		C Camanta	TOTAL	18	2	:	2	20		30	
	5. Semester Code	Course Name	Т	P	L	I C	ECTS	PR	6. Semeste Code	Course Name	Тт	П	<b>,</b> Т	L	С	E	CTS	PR
	KMB305	Chemical Engineering Laboratory I	0	0	4	2	5		KMB310	Chemical Engineering Laboratory II	0	(	)	4	2		5	
5	KMB309	Heat Transfer	3			3		KMB258	KMB314	Chemical Engineering Thermodynamics	3				3		6	KMB311
YEAK	KMB311 KMB343	Thermodynamics Mass Transfer	3	0	0	3	5	KMB201	KMB332 KMB334	Chemical Reaction Engineering	2	(		0	2		3	
3.	KMB343 KMB345	Mass Transfer Labor Law	2			2			KMB334 KMB338	Engineering Economics Seperation Processes	3				3		5	
•	KMB349	Instrumental Analysis	1	0	2	2	3		KMB340	Mathematical Modelling in Chemical Engineering	3	(	)	0	3		5	KMB217
	MUH301	Entrepreneurship and Innovation TOTAL	2			2 17			KMB336	Summer Practice TOTAL	0	(		0	0 17		10 30	
	7. Semester		14	U	0	1/	30		8. Semeste		15			4	1/		30	
	Code	Course Name	Т	P	L	C	ECTS	PR	Code	Course Name	Т	I	,	L	C	E	CTS	PR
	KMB437	Chamital Fasinassina Davisa I	1	4	0	3		KMB309	KMB412	Chaminal Engineering Daving H	1	4	П	0	3		4	1/3/10/27
	15.WID43 /	Chemical Engineering Design I	1	1	١	,	5	KMB314 KMB343		Chemical Engineering Design II	1	ľ	1	U	3		7	KMB437
	KMB401	Process Control	3			3	4		KMB492	Graduation Project*		12				-	6	
	KMB405 KMB439	Chemical Engineering Laboratory III Chemical Technologies	3	0		3	3		-	ELECTIVE COURSE 4 (SEÇ-KİM 4) ELECTIVE COURSE 5 (SEÇ-KİM 5)	3	(		0	3		4	
	KWID439	ELECTIVE COURSE 1 (SEÇ-KİM 1)	3	0		3				ELECTIVE COURSE 6 (SEÇ-KİM 6)	3			0	3		4	
		ELECTIVE COURSE 2 (SEÇ-KİM 2)	3	0	0	3	5			ELECTIVE COURSE 7 (SEÇ-KİM 7)	3	(	)	0	3		4	
		ELECTIVE COURSE 3 (SEÇ-KİM 3)	3	0	0	3	5		173 4TD 500	ELECTIVE COURSE 8 (SEÇ-KİM 8)	3			0	3		4	
			_	_	-				KMB500 KMB504	Professional Practice Program**  Industrial Practice (4 Elective Course (4,5,6,7))***	0	2		0	12		30 16	
		TOTAL	16	4	4	20	30			TOTAL	16				19		30	
	ELECTIVE C	COURSE 1 (SEÇ-KİM 1)							ELECTIVE (	COURSE 4 (SEÇ-KİM 4)	_	_	_			_		
	KMB445	Total Quality Assurance in Chemical Industry (EC	3	0	0	3	4		KMB438	Fundamentals of Electrochemical Engineering (EC 4)	3	(	۱	0	3		4	
	KMB447	Chemical Safety (EC 1)	3	0	0	3	4		KMB458	Transport Phenomena (EC 4)	3			0	3		4	
	KMB449	Energy Technologies (EC 1)	3	0	0	_	4		KMB460	Nanotechnology (EC 4)	3	+	_	0	3	L	4	
	KMB459	Nanoadsorbents for Water Treatment (EC 1)	3	0	0	3	4		KMB462	Composite Materials (EC 4)	3	(	۱	0	3		4	
		<u> </u>							KMB464	Computer Controlled Processes in Chemical Engineering (EC 4)	3	(	1	0	3		4	
	ELECTIVE COURSE 2 (SEÇ-KİM 2)  KMB461									+	+	4			_			
	KMB461 KMB463	Nuclear Power Reactors (EC 2) Colloid Chemistry (EC 2)	3	0			5				+	+	+			-		
	KMB465	Academic English (EC 2)	3			3			ELECTIVE	COURSE 5 (SEÇ-KİM 5)		_	_					
	KMB467	Linear Algebra Applications in Engineering (EC 2)	3	0	0	3	5		KMB468	Polymer Chemistry and Technology (EC 5)	3	(		0	3		4	
¥	KMB469	Biocatalysts (EC 2)	3	0	0	3	5		KMB470	Catalysis and Catalytic Processes (EC 5)	3	(	)	0	3	L	4	
Ξ									KMB472	Basis of Industrial Wastewater and Treatment (EC 5)	3	(	١	0	3		4	
4. YEAR									KMB474	Anorganic Chemistry (EC 5)	3	(	,	0	3	H	4	
4						H			KMB484	Pharmaceutical Chemistry (EC 5)	_	(	_		-	-	4	
		ECTIVE COURSE 3 (SEÇ-KİM 3)						ELECTIVE (	COURSE 6 (SEÇ-KİM 6)	_								
	KMB473	New and Renewable Energy Sources (EC 3)	3	0	_	_	5		KMB466	Drug Delivery Systems (EC 6)	3	(	_	_	3	-	4	
	KMB475 KMB477	Boron Technology (EC 3) Introduction to Polymer (EC 3)	3	0		3	5		KMB476 KMB478	Organic Technology (EC 6) Ceramic Chemistry (EC 6)	3			0	3		4	
	KMB4// KMB441	Chemical Plants and Environmental Safety (EC 3)	3			3			KMB4/8 KMB480	Plastics Recycling (EC 6)		(					4	
		,,===,	Ė	Ė		Ė			KMB482	Petroleum Technology (EC 6)	3	(	)	0	3		4	
			Ĺ	Ĺ	Ĺ	L				Data Science in Chemical Engineering (EC 6)	3	(	) [	0	3		4	
			-	-	-	H			ELECTIVE (	COURSE 7 (SEÇ-KİM 7)							$\dashv$	
		†				İ			KMB442	Plant Organization (EC 7)	3	(					4	
		<u> </u>							KMB444	Chemical Enrichment Technology (EC 7)	3		1				4	
						1	Ì	l	KMB446	Bioreaction Engineering (EC 7) Occupational Health and Safety in Chemistry Industry (EC 7)	3	1 (	1	0	3	-	4	
					-				LAND 450		-					1	4	
									KMB450		3	(	,	-	-	+	-	
									KMB450	Nuclear Chemistry (EC 7)	3	(	,	0	3	L	4	
									KMB450		+	(	)	-	-	⊢	4	
										Nuclear Chemistry (EC 7)	3	(	)	0	3	⊢		
									ELECTIVE (	Nuclear Chemistry (EC 7)  Paint, Binder and Resin Manufacturing Technologies (EC 7)  COURSE 8 (SEC-KÍM 8)  Reactor Design (EC 8)	3	(	)	0	3		4	
									ELECTIVE ( KMB428 KMB430	Nuclear Chemistry (EC 7)  Paint, Binder and Resin Manufacturing Technologies (EC 7)  COURSE 8 (SEC-KİM 8)  Reactor Design (EC 8)  Novel Separation Technologies (EC 8)	3 3 3	(	0	0	3 3 3	<u> </u>	4 4	
									ELECTIVE (	Nuclear Chemistry (EC 7)  Paint, Binder and Resin Manufacturing Technologies (EC 7)  COURSE 8 (SEC-KÍM 8)  Reactor Design (EC 8)	3 3 3	(	0	0	3 3 3	<u> </u>	4	
									ELECTIVE ( KMB428 KMB430	Nuclear Chemistry (EC 7)  Paint, Binder and Resin Manufacturing Technologies (EC 7)  COURSE 8 (SEC-KİM 8)  Reactor Design (EC 8)  Novel Separation Technologies (EC 8)	3 3 3	()	)	0	3 3 3		4 4	
									ELECTIVE ( KMB428 KMB430 KMB490 KMB456 KMB448	Nuclear Chemistry (EC 7)  Paint, Binder and Resin Manufacturing Technologies (EC 7)  COURSE 8 (SEC-KIM 8)  Reactor Design (EC 8)  Novel Separation Technologies (EC 8)  Technical Report Preparation and Presentation (EC 8)  Integrated Waste Management in Chemical Industry (EC 8)  Conceptual Design of Chemical Processes (EC 8)	3 3 3 3 3			0 0 0 0 0	3 3 3 3 3		4 4 4 4	
									ELECTIVE (KMB428 KMB430 KMB490 KMB456 KMB448 KMB452	Nuclear Chemistry (EC 7)  Paint, Binder and Resin Manufacturing Technologies (EC 7)  COURSE 8 (SEC-KIM 8)  Reactor Design (EC 8)  Novel Separation Technologies (EC 8)  Technical Report Preparation and Presentation (EC 8)  Integrated Waste Management in Chemical Industry (EC 8)  Conceptual Design of Chemical Processes (EC 8)  Fuel Cell Theory and Applications (EC 8)	3 3 3 3 3 3			0 0 0 0 0	3 3 3 3 3		4 4 4 4 4 4	
	*Graduation P.	roicet may be opened during the fall semiseter for the Or	1 200	1 the	- III'	pers	emesters	students	ELECTIVE ( KMB428 KMB430 KMB490 KMB456 KMB448	Nuclear Chemistry (EC 7)  Paint, Binder and Resin Manufacturing Technologies (EC 7)  COURSE 8 (SEC-KIM 8)  Reactor Design (EC 8)  Novel Separation Technologies (EC 8)  Technical Report Preparation and Presentation (EC 8)  Integrated Waste Management in Chemical Industry (EC 8)  Conceptual Design of Chemical Processes (EC 8)	3 3 3 3 3 3			0 0 0 0 0	3 3 3 3 3		4 4 4 4	
		roject may be opened during the fall semester for the 9t o PPP, students are exempt from 8. semester courses.	n and	d the	: up	per s	emester s	students.	ELECTIVE (KMB428 KMB430 KMB490 KMB456 KMB448 KMB452	Nuclear Chemistry (EC 7)  Paint, Binder and Resin Manufacturing Technologies (EC 7)  COURSE 8 (SEC-KIM 8)  Reactor Design (EC 8)  Novel Separation Technologies (EC 8)  Technical Report Preparation and Presentation (EC 8)  Integrated Waste Management in Chemical Industry (EC 8)  Conceptual Design of Chemical Processes (EC 8)  Fuel Cell Theory and Applications (EC 8)	3 3 3 3 3 3			0 0 0 0 0	3 3 3 3 3		4 4 4 4 4 4	
	**According to	o PPP, students are exempt from 8. semester courses.  who are registered to Industrial Practice course must not	regis	ter t					ELECTIVE ( KMB428 KMB430 KMB490 KMB456 KMB448 KMB452 KMB454	Nuclear Chemistry (EC 7)  Paint, Binder and Resin Manufacturing Technologies (EC 7)  COURSE 8 (SEC-KİM 8)  Reactor Design (EC 8)  Novel Separation Technologies (EC 8)  Technical Report Preparation and Presentation (EC 8)  Integrated Waste Management in Chemical Industry (EC 8)  Conceptual Design of Chemical Processes (EC 8)  Foal Cell Theory and Applications (EC 8)  Coal Technology (EC 8)	3 3 3 3 3 3 3 3			0 0 0 0 0	3 3 3 3 3		4 4 4 4 4 4	
	**According to	to PPP, students are exempt from 8. semester courses.  The are registered to Industrial Practice course must not  (a)-Total General Credits:	regis	ter t					ELECTIVE ( KMB428 KMB430 KMB490 KMB456 KMB448 KMB452 KMB454	Nuclear Chemistry (EC 7)  Paint, Binder and Resin Manufacturing Technologies (EC 7)  COURSE 8 (SEC-KIM 8)  Reactor Design (EC 8)  Novel Separation Technologies (EC 8)  Technical Report Preparation and Presentation (EC 8)  Integrated Waste Management in Chemical Industry (EC 8)  Conceptual Design of Chemical Processes (EC 8)  Fuel Cell Theory and Applications (EC 8)  Coal Technology (EC 8)  ve 7 courses.  (c)-Total ECTS Credits	3 3 3 3 3 3 3 3	(() (() (() () () () () () () () () () (	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	3 3 3 3 3		4 4 4 4 4 4	
	**According to	o PPP, students are exempt from 8. semester courses.  who are registered to Industrial Practice course must not	regis 1:	ter t					ELECTIVE ( KMB428 KMB430 KMB490 KMB456 KMB448 KMB452 KMB454	Nuclear Chemistry (EC 7)  Paint, Binder and Resin Manufacturing Technologies (EC 7)  COURSE 8 (SEC-KİM 8)  Reactor Design (EC 8)  Novel Separation Technologies (EC 8)  Technical Report Preparation and Presentation (EC 8)  Integrated Waste Management in Chemical Industry (EC 8)  Conceptual Design of Chemical Processes (EC 8)  Foal Cell Theory and Applications (EC 8)  Coal Technology (EC 8)	3 3 3 3 3 3 3 3 3 3 3		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	3 3 3 3 3		4 4 4 4 4 4	