EĞİTİMDE REVİZYON KAPSAMINDA ÖNERİLEN LİSANS PROGRAMI

OMU CHEMICAL ENGINEERING DEPARTMENT																
UNDERGRADUATE COURSES (2025-2026)																
1. Semester Courses 2. Semester Courses								_	_	_	_		-T			
	Code TBMAT113	Course Name Calculus I	T 2				ECTS 5	PR	Code TBMAT114	Course Name		2 2) 3	ECT 5	S PR
		Chemistry l	3				6			Chemistry II		0		4		<u> </u>
2	TBFİZ123	Physics I		0		4	6		TBFİZ124	Physics II		0		4		
ΕA	KMB107	Computer Programminş	2		0		4		KMB106	Computer Aided Technical Drawing				3		
1. YEAR	KMB109	Introduction to Chemical Engineerin	\neg	\neg	0	1	3		KMB108	Scientific Research Methods and Ethic	1	1	1	2	2	
-	ATİ101	Principles of Atatürk and History of Revolution	2	0	0	2	2		ATİ102	Principles of Atatürk and History of Revolution II	2	0	0	2	4	
	YD113	Foreign Language l	1	2	0	2	2		YD114	Foreign Language II	1	2	0	2	2	†
	SSD1	Social Elective Course	2				2				上	匚	I	工		
<u> </u>	2.0	TOTAL				14	8	4	20	30	1					
				4. Semester Courses Code Course Name T P L C ECTS PR												
	KMB201	Physical Chemistry	3				5	- 110	KMB202	Engineering Numerical Methods				3		, , , ,
	KMB203	Chemical Process Calculations	4	0	0	4	5		KMB258	Fluid Mechanics	3	0	6	3	6	TBMAT113
YEAR			ш			ш	3				2	ㅡ	\perp			TBMAT114
Ħ	KMB205 KMB215	Engineering Statistical Methods Organic Chemistry			2	4	5		KMB260 KMB262	Material Science Analytical Chemistry	2					+
2.	KMB217	Differential Equations			0		4		SSD2	Social Elective Course II				2		†
	İSG101	Occupational Health and Safety I	2				2		İSG102	Occupational Health and Safety II				2		
	TDİ101	Turkish Language I		_	0		2		TDİ102	Turkish Language II		0	_	2		
	YDİ213	Advanced English I TOTAL	21		0	3	4 30		YDİ214	Advanced English II TOTAL		2		20		
TOTAL 21 2 2 23 30 TOTAL						110		12	120	7 30						
l	Code	Course Name					ECTS	PR	Code	Course Name					ECT	S PR
	KMB305	Chemical Engineering Laboratory I	0		4	2	5	LANDAGE	KMB310	Chemical Engineering Laboratory II		0				Varnass
YEAR	KMB309 KMB311	Heat Transfer Thermodynamics			0		5	KMB258 KMB201	KMB314 KMB332	Chemical Engineering Thermodynamics Chemical Reaction Engineering	4			3		KMB311
ΧE	KMB343	Mass Transfer			0		4	K.viD201	KMB334	Engineering Economics				2		1
3.	KMB345	Labor Law	2	0	0	2	3		KMB338	Seperation Processes	3	0	0	3	5	
l	KMB349	Instrumental Analysis	1		2	2	3		KMB340	Mathematical Modelling in Chemical Engineering		0				KMB217
	MUH301	Entrepreneurship and Innovation TOTAL	2 14				5 30		KMB336	Summer Practice TOTAL		0		17		+
	7. Semester		7	v	J	-/	20		8. Semeste		113	۳		1	1 30	
	Code	Course Name	T	P	L	C	ECTS	PR	Code	Course Name	T	P	I	C	ECT	S PR
	VMD427	Chamical Fasions in a Da in A	٦, ١	1		٦	-	KMB309	EMD412	Chamical Engineering Design II	Ι.	Ι,	L		1 .	VMD 425
l	KMB437	Chemical Engineering Design I	1	4	0	3	5	KMB314 KMB343	KMB412	Chemical Engineering Design II	1	4	0	3	4	KMB437
	KMB401	Process Control	3	0	0	3	4	TENTED TO	KMB492	Graduation Project*	0	2	0	2	6	†
	KMB405	Chemical Engineering Laboratory III			4	2	3			ELECTIVE COURSE 4 (SEÇ-KİM 4)	3					
	KMB439	Chemical Technologies ELECTIVE COURSE 1 (SEÇ-KİM 1)		_	0		4			ELECTIVE COURSE 5 (SEÇ-KİM 5) ELECTIVE COURSE 6 (SEÇ-KİM 6)	3		0			-
		ELECTIVE COURSE 1 (SEÇ-KİM 1) ELECTIVE COURSE 2 (SEÇ-KİM 2)		0	0	3	5			ELECTIVE COURSE 6 (SEÇ-KİM 7)	3			3		+
		ELECTIVE COURSE 3 (SEÇ-KİM 3)	3		0	3	5			ELECTIVE COURSE 8 (SEÇ-KİM 8)		0		3		†
									KMB500	Professional Practice Program**		24		18		
		TOTAL	16		_	20	20		KMB504	Industrial Practice (4 Elective Course (4,5,6,7))***		24		12		
	ELECTIVE C	TOTAL COURSE 1 (SEÇ-KİM 1)	16	4	4	20	30		ELECTIVE	TOTAL COURSE 4 (SEÇ-KÎM 4)	116	6	10	20	30	+
	KMB445	Total Quality Assurance in Chemical Industry (EC	3	0	0	2	4				Τ,	0	0	T	4	†
		1)	-			3			KMB438	Fundamentals of Electrochemical Engineering (EC 4)	3	_				<u> </u>
	KMB447 KMB449	Chemical Safety (EC 1) Energy Technologies (EC 1)		0	0	3	4		KMB458 KMB460	Transport Phenomena (EC 4) Nanotechnology (EC 4)	3					
											1	1	1	_	1	+
	KMB459	Nanoadsorbents for Water Treatment (EC 1)	3	0	0	3	4		KMB462	Composite Materials (EC 4)	3	ㅡ	ㅗ	_	4	
	ni nomim o	COVERGE A CONGLETION AND CONGLETION							KMB464	Computer Controlled Processes in Chemical Engineering (EC 4)	3	0	0	3	4	
	KMB461	OURSE 2 (SEÇ-KİM 2) Nuclear Power Reactors (EC 2)	3	0	0	3	5				╁	⊢	╁	+	-	
	KMB463	Colloid Chemistry (EC 2)	3		0	3	5				t	H	t	+	1	
	KMB465	Academic English (EC 2)	3	0	0	3	5		ELECTIVE (COURSE 5 (SEÇ-KİM 5)		Ξ	_			
	KMB467	Linear Algebra Applications in Engineering (EC 2)	3	0	0	3	5		KMB468	Polymer Chemistry and Technology (EC 5)	3	0	0	3	4	
×	KMB469	Biocatalysts (EC 2)	3	0	0	3	5		KMB470	Catalysis and Catalytic Processes (EC 5)	3	0	0	3	4	
EΑ									KMB472	Basis of Industrial Wastewater and Treatment (EC 5)	3	0	0	3	4	
. YEAR			H	-	-	Н			KMB474	Anorganic Chemistry (EC 5)	2	n	+	3	4	+
4			H	-	-	Н			KMB484	Pharmaceutical Chemistry (EC 5)	_	_	_	_	_	+
	ELECTIVE COURSE 3 (SEÇ-KÎM 3)					ELECTIVE COURSE 6 (SEÇ-KİM 6)										
	KMB473 New and Renewable Energy Sources (EC 3) 3 0 0 3 5				KMB466	Drug Delivery Systems (EC 6)		0								
l	KMB475	Boron Technology (EC 3)	3	0	0	3	5		KMB476	Organic Technology (EC 6)				3		
	KMB477	Introduction to Polymer (EC 3)	3		0	3	5		KMB478	Ceramic Chemistry (EC 6)				3		
l	KMB441	Chemical Plants and Environmental Safety (EC 3)	3	0	0	3	5		KMB480 KMB482	Plastics Recycling (EC 6) Petroleum Technology (EC 6)				3		+
l			H		-	H				Data Science in Chemical Engineering (EC 6)				3		
			口									_			-	
			Ц	_	_	\Box				COURSE 7 (SEÇ-KİM 7)	T~		т.			
l			H	-	_	Н			KMB442 KMB444	Plant Organization (EC 7) Chemical Enrichment Technology (EC 7)		0		3		+
			Ħ	_		Ħ			KMB446	Bioreaction Engineering (EC 7)		0		3		
			П			П			KMB450	Occupational Health and Safety in Chemistry Industry (EC 7)	3	_	-	_		
			H	_		Н			l		3	╌	+	+	+-	†
			Н	4	_	Н			.	Nuclear Chemistry (EC 7)	+	+	+	+	+	-
			ᅵ						<u> </u>	Paint, Binder and Resin Manufacturing Technologies (EC 7)	3	0	0	3	4	
			П	Д						COURSE 8 (SEÇ-KİM 8)	_	_	_	_		
			\dashv	4	-	Н			KMB428 KMB430	Reactor Design (EC 8) Novel Separation Technologies (EC 8)	3	0		3	_	+
			H	-		H			KMB490	Technical Report Preparation and Presentation (EC 8)	3		-	_	-	+
l			H	-	_	Н					+	-	┰	+	+	+
			Ш			Ш			KMB456	Integrated Waste Management in Chemical Industry (EC 8)	3	_		3		
			Ц	\Box		Ц			KMB448	Conceptual Design of Chemical Processes (EC 8)	3			3		
			H	-		Н			KMB452 KMB454	Fuel Cell Theory and Applications (EC 8) Coal Technology (EC 8)		0		3		+
*Graduation Project may be opened during the fall semester for the 9th and the upper semester students.								U	10	1 5	4	1				
	**According to	o PPP, students are exempt from 8. semester courses.									_	_	_	_		
		ho are registered to Industrial Practice course must not			to I	lect	ive 4, El	ective 5, Elec	tive 6 and Elec		_	_	_	_		
	(a)-Total General Credits: 158 (c)-Total ECTS Credits: 240 (b)-Total Elective Courses Credits: 28 (d)-Total Elective Courses ECTS Credits: 38															
i		(b)-Total Elective Courses Credits: Elective Courses [(b)/(a)] (%):	18			\vdash				(d)-Total Elective Courses ECTS Credits: Elective Courses [(d)/(ç)] (%):		38 16		+	+	+
l		(c)-Total General Credits (excluding 5-i courses):			-	H				Practical Courses (%):		42		t	1	†
_	***************************************															