



**AFYON KOCATEPE UNIVERSITY**  
**GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES**  
**DEPARTMENT OF CHEMISTRY**



**MASTER (MSc) PROGRAM**

**FIRST YEAR**

FIRST SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
KIM-5501	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
KIM-5601	THESIS PREPARATION	C	0	1	1	0	1	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
<b>TOTAL</b>			<b>20</b>	<b>1</b>	<b>21</b>	<b>12</b>	<b>30</b>	

SECOND SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
KIM-5502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
KIM-5602	THESIS PREPARATION	C	0	1	1	0	1	
KIM-5701	SEMINAR	C	0	2	2	0	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
<b>TOTAL</b>			<b>17</b>	<b>3</b>	<b>20</b>	<b>9</b>	<b>30</b>	



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**SECOND YEAR**

THIRD SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
KIM-5503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
KIM-5603	THESIS	C	0	1	1	0	21	
<b>TOTAL</b>			<b>8</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>30</b>	

FOURTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
KIM-5504	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
KIM-5604	THESIS	C	0	1	1	0	21	
<b>TOTAL</b>			<b>8</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>30</b>	

**ELECTIVE COURSES**

COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
FBE-5001	SCIENTIFIC RESEARCH AND METHODS	C	3	0	3	3	5
KIM-5001	ELECTROANALYTIC CHEMISTRY I	E	3	0	3	3	5
KIM-5002	ELECTROANALYTIC CHEMISTRY II	E	3	0	3	3	5
KIM-5003	SPEKTROSCOPIC METHODS II	E	3	0	3	3	5
KIM-5004	DESIGN OF ORGANIC SYNTHESIS	E	3	0	3	3	5
KIM-5005	STATISTICAL EVALUATION OF ANALYSIS RESULT	E	3	0	3	3	5
KIM-5006	ELECTIVE TOPICS IN INORGANIC CHEMISTRY I	E	3	0	3	3	5
KIM-5007	ELECTIVE TOPICS IN INORGANIC CHEMISTRY II	E	3	0	3	3	5
KIM-5008	SPEKTROSCOPIC METHODS I	E	3	0	3	3	5
KIM-5009	ORGANOMETALIC CHEMISTRY II	E	3	0	3	3	5
KIM-5010	BIOINORGANIC CHEMISTRY	E	3	0	3	3	5
KIM-5011	COMPLEX COMPOUNDS I	E	3	0	3	3	5
KIM-5012	COMPLEX COMPOUNDS II	E	3	0	3	3	5



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KIM-5013	PHYSICAL INORGANIC CHEMISTRY I	E	3	0	3	3	5
KIM-5014	ORGANOMETALIC CHEMISTRY I	E	3	0	3	3	5
KIM-5015	MOLECULAR SYMMETRY AND SPECTROSCOPY	E	3	0	3	3	5
KIM-5016	COORDINATION CHEMISTRY	E	3	0	3	3	5
KIM-5017	CRYSTAL STRUCTURES	E	3	0	3	3	5
KIM-5018	MEMBRANE AND TRANSPORT	E	3	0	3	3	5
KIM-5019	ELECTROCHEMICAL SENSORS	E	3	0	3	3	5
KIM-5020	SURFACE ANALYSIS METHODS	E	3	0	3	3	5
KIM-5021	HORMONES AND VITAMINS	E	3	0	3	3	5
KIM-5022	ADVANCED BIOCHEMISTRY I	E	3	0	3	3	5
KIM-5023	ADVANCED BIOCHEMISTRY II	E	3	0	3	3	5
KIM-5024	LIPID PEROXIDATION AND ANTIOXIDANTS	E	3	0	3	3	5
KIM-5025	KIDNEY FUNCTIONS AND URINE	E	3	0	3	3	5
KIM-5026	ENZYME KINETICS	E	3	0	3	3	5
KIM-5027	ELEKTROANALYTICAL METHODS	E	3	0	3	3	5
KIM-5028	CONDUCTING POLYMERS	E	3	0	3	3	5
KIM-5029	PRACTICAL APPLICATIONS OF TiO <sub>2</sub>	E	3	0	3	3	5
KIM-5030	SAMPLE PREPARATION TECHNIQUES IN ANALYTICAL CHEMISTRY	E	3	0	3	3	5
KIM-5031	HETEROGENOUS PHOTOCATALYSIS	E	3	0	3	3	5
KIM-5032	NUCLEAR FUEL TECHNOLOGY	E	3	0	3	3	5
KIM-5033	ELECTIVE TOPICS IN PHYSICAL CHEMISTRY I	E	3	0	3	3	5
KIM-5034	ELECTIVE TOPICS IN PHYSICAL CHEMISTRY II	E	3	0	3	3	5
KIM-5035	CHEMISTRY OF NATURAL PRODUCTS	E	3	0	3	3	5
KIM-5036	CHEMICAL THERMODYNAMIC	E	3	0	3	3	5
KIM-5037	WATER SOLUBLE POLYMERS AND PROPERTIES	E	3	0	3	3	5
KIM-5038	THERMAL ANALYSIS METHODS	E	3	0	3	3	5
KIM-5039	HEALTH PHYSIC AND RADIOPROTECTION	E	3	0	3	3	5
KIM-5040	RADIATION CHEMISTRY	E	3	0	3	3	5
KIM-5041	THE CORROSION AND CATHODIC PROTECTION	E	3	0	3	3	5
KIM-5042	THE CORROSION INHIBITORS	E	3	0	3	3	5
KIM-5043	ADVANCED CHEMICAL KINETICS	E	3	0	3	3	5
KIM-5044	ADVANCED PHYSICALCHEMISTRY II	E	3	0	3	3	5



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KIM-5045	MEMBRANES VE POLYMER TECHNOLOGY	E	3	0	3	3	5
KIM-5046	RADIOISOTOPE APPLICATION	E	3	0	3	3	5
KIM-5047	ELECTIVE TOPICS IN ORGANIC CHEMISTRY I	E	3	0	3	3	5
KIM-5048	ELECTIVE TOPICS IN ORGANIC CHEMISTRY I	E	3	0	3	3	5
KIM-5049	ORGANIC SYNTHESIS	E	3	0	3	3	5
KIM-5050	LIVER AND FUNCTION	E	3	0	3	3	5
KIM-5051	MECHANISM OF ORGANIC REACTIONS	E	3	0	3	3	5
KIM-5052	SEPARATION METHODS	E	3	0	3	3	5
KIM-5053	STEREOCHEMISTRY	E	3	0	3	3	5
KIM-5054	EDIBLE FILM AND COATINGS	E	3	0	3	3	5
KIM-5055	POLYMER CHEMISTRY	E	3	0	3	3	5
KIM-5056	BLOCK COPOLYMERS	E	3	0	3	3	5
KIM-5057	ADVANCED PHYSICALCHEMISTRY I	E	3	0	3	3	5
KIM-5058	CHEMISTRY OF MACROCYCLIC COMPOUNDS	E	3	0	3	3	5
KIM-5059	STRUCTURAL ANALYSIS IN ORGANIC CHEMISTRY	E	3	0	3	3	5
KIM-5064	MINERALS AND METABOLISM	E	3	0	3	3	5
KIM-5067	CELL CULTURE LABORATORY AND TECHNIQUES	E	3	0	3	3	5