



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



DOCTOR OF PHILOSOPHY (PhD) PROGRAM

FIRST YEAR

FIRST SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
KIM-6501	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
KIM-6601	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	
TOTAL			20	1	21	12	30	

SECOND SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
KIM-6502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
KIM-6602	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	
TOTAL			20	1	21	12	30	



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SECOND YEAR

THIRD SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
KIM-6503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
KIM-6603	THESIS PREPARATION	C	0	1	1	0	1	
KIM-6701	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	
TOTAL			17	3	20	9	30	

FOURTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
KIM-6504	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
KIM-6604	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	



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THIRD YEAR

FIFTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
KIM-6505	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
KIM-6605	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

SIXTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
KIM-6506	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
KIM-6606	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

FOURTH YEAR

SEVENTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
KIM-6507	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
KIM-6607	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

EIGHTH SEMESTER

EIGHTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
KIM-6508	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
KIM-6608	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	



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GRADUATE PROGRAMS

ELECTIVE COURSES

COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
FBE-5001	SCIENTIFIC RESEARCH AND METHODS	E	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
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



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ELECTIVE COURSES

COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
KIM-5029	PRACTICAL APPLICATIONS OF TIO ₂	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
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



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			TH	AP	TO	CR	EC
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-6001	SEPERATION METHODS IN ORGANIC CHEMISTRY	E	3	0	3	3	5
KIM-6002	SYNTHESIS METHODS OF POLYMER	E	3	0	3	3	5
KIM-6003	RADIOPHARMACEUTICAL CHEMISTRY	E	3	0	3	3	5
KIM-6004	BIOLOGICAL EFFECTS IONIZING RADIATION	E	3	0	3	3	5
KIM-6005	ADVANCED NUCLEAR CHEMISTRY	E	3	0	3	3	5
KIM-6006	ADVANCED RADIATION CHEMISTRY	E	3	0	3	3	5
KIM-6007	ADVANCED NMR SPECTROSCOPY	E	3	0	3	3	5
KIM-6008	HETEROCYCLIC CHEMISTRY	E	3	0	3	3	5
KIM-6009	ASYMETRIC SYNTHESIS IN ORGANIC CHEMISTRY	E	3	0	3	3	5
KIM-6010	ADSORPTION AND CATALYSIS	E	3	0	3	3	5
KIM-6011	FUNCTIONAL GROUPS	E	3	0	3	3	5
KIM-6012	CHEMICAL ANALYSIS METHODS OF WATER	E	3	0	3	3	5
KIM-6013	ADVANCED ELECTROCHEMISTRY	E	3	0	3	3	5
KIM-6014	BIOCHEMISTRY LABORATORY TECHNIQUES AND METHODS	E	3	0	3	3	5
KIM-6015	CHARACTERIZATION AND ANALYSIS METHODS OF PROTEIN OXIDATION	E	3	0	3	3	5
KIM-6016	LIPOPROTEINS	E	3	0	3	3	5
KIM-6017	TITANIUMDIOXIDE NANOMATERIALS	E	3	0	3	3	5
KIM-6018	BIOSENSORS	E	3	0	3	3	5
KIM-6019	HETEROGENEOUS PHOTOCATALYSIS OF ORGANIC SYNTHESIS	E	3	0	3	3	5
KIM-6020	MOLECULAR BIOCHEMISTRY	E	3	0	3	3	5
KIM-6021	FOOD ADDITIVES AND TOXINS	E	3	0	3	3	5
KIM-6022	BASIC MOLECULES IN BIOCHEMISTRY	E	3	0	3	3	5
KIM-6023	METABOLISM	E	3	0	3	3	5
KIM-6024	ANTIOXIDANTS	E	3	0	3	3	5
KIM-6025	BIOCHEMISTRY LABORATORY TECHNIQUES	E	3	0	3	3	5
KIM-6026	CHARACTERİZATION OF POLYMER	E	3	0	3	3	5
KIM-6027	SPECTROELECTROCHEMİSTRY	E	3	0	3	3	5



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			TH	AP	TO	CR	EC
KIM-6028	CHEMISTRY OF METALS	E	3	0	3	3	5
KIM-6029	CHEMISTRY OF MAIN GROUP ELEMENTS	E	3	0	3	3	5
KIM-6030	ADVANCED INORGANIC CHEMISTRY I	E	3	0	3	3	5
KIM-6031	ADVANCED INORGANIC CHEMISTRY II	E	3	0	3	3	5
KIM-6032	SOLID STATE AND MATERIALS CHEMISTRY	E	3	0	3	3	5
KIM-6033	CHEMICAL CRYSTALLOGRAPHY	E	3	0	3	3	5
KIM-6034	PHYSICAL INORGANIC CHEMISTRY I	E	3	0	3	3	5
KIM-6035	PHYSICAL INORGANIC CHEMISTRY II	E	3	0	3	3	5
KIM-6036	BIOINORGANIC CHEMISTRY I	E	3	0	3	3	5
KIM-6037	BİYOANORGANİK KİMYA II	E	3	0	3	3	5
KIM-6038	ADVANCED CHEMISTRY PROJECTS I*	E	3	0	3	3	5
KIM-6039	SOME INSTRUMENTAL METHODS AND APPLICATIONS I	E	3	0	3	3	5
KIM-6040	SOME INSTRUMENTAL METHODS AND APPLICATIONS II	E	3	0	3	3	5
KIM-6041	ADSORPTION AND CATALYSIS	E	3	0	3	3	5
KIM-6042	STRIPPING VOLTAMMETRIC METHODS	E	3	0	3	3	5
KIM-6043	NEW METHODS IN ELECTROCHEMISTRY	E	3	0	3	3	5
KIM-6044	MİCROENCAPSULATION METHODS	E	3	0	3	3	5
KIM-6045	EMULSION, AEROSOL AND FOAM SYSTEMS	E	3	0	3	3	5
EGT-6001	DEVELOPMENT AND LEARNING	E	3	0	3	3	5
EGT-6002	INSTRUCTIONAL PLANNING AND EVALUATION	E	3	0	3	3	5

* Students Can Take This Course, The Only Member Of The Academic Advisor. Course Can Be Opened More Than One Period.