



AFYON KOCATEPE UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF MATERIAL SCIENCE AND ENGINEERING



DOCTOR OF PHILOSOPHY (PhD) PROGRAM

FIRST YEAR

FIRST SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MLZ-6501	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MLZ-6601	THESIS PREPARATION	C	0	1	1	0	1	
MLZ-6001	ENGINEERING MATHEMATICS ***	C	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	
TOPLAM			20	1	21	12	30	

***: Students Are Required To Choose Another Elective Course From The List If They Have Been Succeed The Engineering Mathematics Lecture At Master Of Science

SECOND SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MLZ-6502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MLZ-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	



AFYON KOCATEPE UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF MATERIAL SCIENCE AND ENGINEERING



DOCTOR OF PHILOSOPHY (PhD) PROGRAM

SECOND YEAR

THIRD SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MLZ-6503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MLZ-6603	THESIS PREPARATION	C	0	1	1	0	1	
MLZ-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	
MLZ-6504	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MLZ-6604	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	



AFYON KOCATEPE UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF MATERIAL SCIENCE AND ENGINEERING



DOCTOR OF PHILOSOPHY (PhD) PROGRAM

THIRD YEAR

FIFTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MLZ-6505	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MLZ-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	
MLZ-6506	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MLZ-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	
MLZ-6507	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MLZ-6607	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

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

ELECTIVE COURSES



AFYON KOCATEPE UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF MATERIAL SCIENCE AND ENGINEERING



DOCTOR OF PHILOSOPHY (PhD) PROGRAM

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
MLZ-6002	UNSHAPED (MONOLITHIC) REFRACTORIES	E	3	0	3	3	5
MLZ-6003	NON-OXIDE CERAMICS	E	3	0	3	3	5
MLZ-6004	CEMENT- CONCRETE CHARACTERIZATION AND DESIGN	E	3	0	3	3	5
MLZ-6005	ELECTRONIC MATERIALS	E	3	0	3	3	5
MLZ-6006	NANOFIBERS	E	3	0	3	3	5
MLZ-6007	SOLIDIFICATION	E	3	0	3	3	5
MLZ-6008	FRACTURE AND TOUGHENING OF CERAMIC MATERIALS	E	3	0	3	3	5
MLZ-6009	POROUS MATERIALS TECHNOLOGY	E	3	0	3	3	5
MLZ-6010	PROPERTIES OF INORGANIC GLASSES	E	3	0	3	3	5
MLZ-6011	PLASMA ASSISTED SURFACE PROCESSING	E	3	0	3	3	5
MLZ-6012	TRIBOLOGY OF METALS	E	3	0	3	3	5
MLZ-6013	CORROSION MECHANISM AND FAILURES IN METALS	E	3	0	3	3	5
MLZ-6014	FATIGUE AND CREEP BEHAVIOUR OF MATERIALS	E	3	0	3	3	5
MLZ-6015	THEORY OF ELASTICITY	E	3	0	3	3	5
MLZ-6016	RECYCLING AND CHARACTERIZATION OF INDUSTRIAL WASTE	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