



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



DOCTOR OF PHILOSOPHY (PhD) PROGRAM

FIRST YEAR

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

SECOND SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
FIZ-6502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
FIZ-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	
FIZ-6503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
FIZ-6603	THESIS PREPARATION	C	0	1	1	0	1	
FIZ-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	
FIZ-6504	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
FIZ-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	
FIZ-6505	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
FIZ-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	
FIZ-6506	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
FIZ-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	
FIZ-6507	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
FIZ-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	
FIZ-6508	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
FIZ-6608	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

ELECTIVE COURSES



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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
FIZ-6001	QUANTUM OPTICS	E	3	0	3	3	5
FIZ-6002	STRUCTURE OF BIOLOGICAL MOLECULES	E	3	0	3	3	5
FIZ-6003	MOLECULAR STRUCTURE ANALYSIS	E	3	0	3	3	5
FIZ-6004	CHARGED PARTICLE OPTICS	E	3	0	3	3	5
FIZ-6005	CHARGED PARTICLE ANALAYSERS	E	3	0	3	3	5
FIZ-6006	MASS SPECTROMETER	E	3	0	3	3	5
FIZ-6007	COMPUTATIONAL METHODS AND APPLICATIONS IN PHYSICS I	E	3	0	3	3	5
FIZ-6008	COMPUTATIONAL METHODS AND APPLICATIONS IN PHYSICS II	E	3	0	3	3	5
FIZ-6009	NUCLEAR MODELS	E	3	0	3	3	5
FIZ-6010	MEASUREMENT TECHNIQUES IN NUCLEAR PHYSICS	E	3	0	3	3	5
FIZ-6011	HIGH ENERGY AND PARTICLE PHYSICS	E	3	0	3	3	5
FIZ-6012	REACTOR PHYSICS	E	3	0	3	3	5
FIZ-6013	CROSS SECTION MEASUREMENTS IN SCATTERING EXPERIMENTS	E	3	0	3	3	5
FIZ-6014	CURRENT TOPICS IN ATOMIC AND MOLECULAR PHYSICS	E	3	0	3	3	5
FIZ-6015	CURRENT TOPICS IN NUCLEAR PHYSICS	E	3	0	3	3	5
FIZ-6016	CURRENT TOPICS IN SOLID STATE PHYSICS	E	3	0	3	3	5
FIZ-6017	CURRENT TOPICS IN HIGH ENERGY PHYSICS	E	3	0	3	3	5
FIZ-6018	MODELS AND MODELLING IN PHYSICS EDUCATION	E	3	0	3	3	5
FIZ-6019	SIGNAL PROCESSING TECHNIQUES	E	3	0	3	3	5
FIZ-6020	MATERIAL STRUCTURE AND CRYSTALLOGRAPHY	E	3	0	3	3	5
FIZ-6021	ADVANCED MATERIAL CHARACTERIZATION TECHNIQUES	E	3	0	3	3	5
FIZ-6022	STRUCTURE OF QUANTUM PARTICLES	E	3	0	3	3	5
FIZ-6023	GROUP THEORY AND APPLICATIONS IN PHYSICS	E	3	0	3	3	5
FIZ-6024	SPECTROSCOPIC TECHNIQUES IN NANOPHYSICS	E	3	0	3	3	5
FIZ-6025	SPECTROSCOPIC TECHNIQUES IN CANCER THERAPY	E	3	0	3	3	5
FIZ-6026	ELECTRON SPECTROMETER	E	3	0	3	3	5
FIZ-6027	EXPERIMENTAL INSTRUMENTATION DEVELOPMENT IN ACCELERATORS	E	3	0	3	3	5
EGT-6001	GELİŞİM VE ÖĞRENME	E	3	0	3	3	5
EGT-6002	ÖĞRETİMDE PLANLAMA VE DEĞERLENDİRME	E	3	0	3	3	5