



ULUDAĞ ÜNİVERSİTESİ
FEN BİLİMLERİ ENSTİTÜSÜ
2017-2018 EĞİTİM ÖĞRETİM YILI DERS PLANLARI

ANABİLİM DALI		OPTİK VE FOTONİK MÜHENDİSLİĞİ																	
BİLİM DALI / PROGRAMI		Optik ve Fotonik Mühendisliği / Yüksek Lisans Programı																	
DERS AŞAMASI	I. YARIYIL / GÜZ								II. YARIYIL / BAHAR										
	Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS	Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS			
	FTK5191	TEZ DANIŞMANLIĞI I	Z	0	1	0	0	1	FTK5192	TEZ DANIŞMANLIĞI II	Z	0	1	0	0	1			
	FTK5201	OPTİK BENZEŞİM LABORATUVARI	Z	1	0	2	3	6	FTK5202	OPTİK VE FOTONİK LABORATUVARI	Z	1	0	2	3	6			
	FTK5401	KUVANTUM ELEKTRONİĞİ VE LAZER MÜHENDİSLİĞİ	Z	3	0	0	3	6	FTK5304	İLERİ TÜMLEŞİK OPTİK YÖNTEMLER	Z	3	0	0	3	6			
	FTK5181	Y.LİSANS UZMANLIK ALAN DERSİ I	S	4	0	0	0	5	FTK5172	SEMİNER	Z	0	2	0	0	4			
	FTK5101	ELEKTROMANYETİK DALGALAR	S	3	0	0	3	6	FTK5000	OPTİK VE FOTONİK MÜHENDİSLİĞİNDE ARAŞTIRMA TEKNİKLERİ VE YAYIN ETİĞİ	Z	2	0	0	2	2			
	FTK5501	FİBER LAZERLER	S	3	0	0	3	6	FTK5182	Y.LİSANS UZMANLIK ALAN DERSİ II	S	4	0	0	0	5			
	FTK5505	KIZILÖTESİ IŞIK KAYNAKLARI: LAZERLER, LED LER	S	3	0	0	3	6	FTK5306	İLERİ FOTONİK AYGITLAR	S	3	0	0	3	6			
	FTK5511	FİZİKSEL OPTİK	S	3	0	0	3	6	FTK5506	FOTONİK ÜRETİM TEKNOLOJİLERİ	S	3	0	0	3	6			
								FTK5512	FOTODEKTEKTÖRLER VE KAMERALAR	S	3	0	0	3	6				
Toplam Kredi								12	30	Toplam Kredi								11	30
TEZ AŞAMASI	III. YARIYIL / GÜZ								IV. YARIYIL / BAHAR										
	FTK5193	TEZ DANIŞMANLIĞI III	Z	0	1	0	0	25	FTK5194	TEZ DANIŞMANLIĞI IV	Z	0	1	0	0	25			
	FTK5183	Y.LİSANS UZMANLIK ALAN DERSİ III	Z	4	0	0	0	5	FTK5184	Y.LİSANS UZMANLIK ALAN DERSİ IV	Z	4	0	0	0	5			
	Toplam Kredi								0	30	Toplam Kredi								0
TOPLAM KREDİ: 23 - TOPLAM AKTS: 120																			

Not: Öğrenci, seçmeli derslerden her yarıyıl toplam kredilik ders seçecektir.
Öğrenci isterse, danışmanının onayı ile her yarıyıl için **1 (bir)** seçmeli dersini alan dışından da alabilir.



ULUDAĞ UNIVERSITY
GRADUATE SCHOOL OF EDUCATION
2017-2018 ACADEMIC YEAR COURSE PLAN

DEPARTMENT OF		OPTICS AND PHOTONICS ENGINEERING																	
DEPARTMENT / PROGRAM		Optics and Photonics Engineering / Master's Degree Program																	
COURSE STAGE	I. TERM / FALL								II. TERM / SPRING										
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	U	L	Credit	ECTS			
	FTK5191	MA THESIS I	Z	0	1	0	0	1	FTK5192	MA THESIS II	Z	0	1	0	0	1			
	FTK5201	OPTICS SIMULATION LAB.	Z	1	0	2	3	6	FTK5202	OPTICS AND PHOTONICS LAB.	Z	1	0	2	3	6			
	FTK5401	QUANTUM ELECTRONICS AND LASER ENGINEERING	Z	3	0	0	3	6	FTK5304	ADVANCED INTEGRATED OPTICS	Z	3	0	0	3	6			
	FTK5181	ADVANCED TOPICS IN MA THESIS I	S	4	0	0	0	5	FTK5172	SEMINAR	Z	0	2	0	0	4			
	FTK5101	ELECTROMAGNETIC FIELDS	S	3	0	0	3	6	FTK5000	RESEARCH TECHNIQUES and PUBLICATION ETHICS in OPTICS AND PHOTONICS ENGINEERING	C	2	0	0	2	2			
	FTK5501	FIBER LASERS	S	3	0	0	3	6	FTK5182	ADVANCED TOPICS IN MA THESIS II	S	4	0	0	0	5			
	FTK5505	INFRARED LIGHT SOURCES: LASERS AND LEDS	S	3	0	0	3	6	FTK5306	ADVANCED PHOTONIC DEVICES	S	3	0	0	3	6			
	FTK5511	PHYSICAL OPTICS	S	3	0	0	3	6	FTK5506	PHOTONIC FABRICATION TECHNOLOGIES	S	3	0	0	3	6			
								FTK5512	PHOTODETECTORS AND CAMERAS	S	3	0	0	3	6				
Total Credits								12	30	Total Credits								11	30
STAGE THESIS	III. TERM / FALL								IV. TERM / SPRING										
	FTK5193	Ma Thesis III	Z	0	1	0	0	25	FTK5194	Ma Thesis IV	Z	0	1	0	0	25			
	FTK5183	Advanced Topics In Ma Thesis III	Z	4	0	0	0	5	FTK5184	Advanced Topics In Ma Thesis IV	Z	4	0	0	0	5			
	Total Credits								0	30	Total Credits								0
TOTAL CREDITS: 23 - TOTAL ECTS: 120																			

Not: The student is expected to take a total of credited selective courses every academic term.

The student have the option of choosing one selective course from another department with the endorsement of the supervisor.

