



BURSA ULUDAĞ ÜNİVERSİTESİ
FEN BİLİMLERİ ENSTİTÜSÜ
2023-2024 EĞİTİM ÖĞRETİM YILI DERS PLANLARI

FR 1.1.1_02

ANABİLİM/ ANASANAT DALI		EKLEMELİ İMALAT																
BİLİM/ SANAT DALI / PROGRAMI		DOKTORA PROGRAMI																
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		
	EIM6191	TEZ DANIŞMANLIĞI I	Z	0	1	0	0	1	EIM6192	TEZ DANIŞMANLIĞI II	Z	0	1	0	0	1		
	EIM6181	DOKTORA UZMANLIK ALAN DERSİ I	Z	4	0	0	0	5	EIM6182	DOKTORA UZMANLIK ALAN DERSİ II	Z	4	0	0	0	5		
	EIM	SEÇMELİ DERS	S					6	EIM6172	SEMİNER	Z	0	2	0	0	4		
	EIM	SEÇMELİ DERS	S					6	FEN6002	TEKNOLOJİ TRANSFERİ ARGE ve İNOVASYON	Z	2	0	0	2	2		
	EIM	SEÇMELİ DERS	S					6	EIM	SEÇMELİ DERS	S					6		
		SEÇMELİ DERS *	S					6	EIM	SEÇMELİ DERS	S					6		
										SEÇMELİ DERS *	S					6		
	Toplam Kredi/AKTS							12	30	Toplam Kredi/AKTS							11	30
TEZ AŞAMASI	III. YARIYIL / GÜZ								IV. YARIYIL / BAHAR									
	YET6177	DOKTORA YETERLİLİK SINAVI	Z	0	0	0	0	10	EIM6184	DOKTORA UZMANLIK ALAN DERSİ IV	Z	4	0	0	0	5		
	EIM6183	DOKTORA UZMANLIK ALAN DERSİ III	Z	4	0	0	0	5	EIM6194	TEZ DANIŞMANLIĞI IV	Z	0	1	0	0	25		
	EIM6193	TEZ DANIŞMANLIĞI III	Z	0	1	0	0	15										
	Toplam Kredi/AKTS							0	30	Toplam Kredi/AKTS							0	30
	V. YARIYIL / GÜZ								VI. YARIYIL / BAHAR									
	EIM6185	DOKTORA UZMANLIK ALAN DERSİ V	Z	4	0	0	0	5	EIM6186	DOKTORA UZMANLIK ALAN DERSİ VI	Z	4	0	0	0	5		
	EIM6195	TEZ DANIŞMANLIĞI V	Z	0	1	0	0	25	EIM6196	TEZ DANIŞMANLIĞI VI	Z	0	1	0	0	25		
	Toplam Kredi/AKTS							0	30	Toplam Kredi/AKTS							0	30
	VII. YARIYIL / GÜZ								VIII. YARIYIL / BAHAR									
	EIM6187	DOKTORA UZMANLIK ALAN DERSİ VIII	Z	4	0	0	0	5	EIM6188	DOKTORA UZMANLIK ALAN DERSİ VIII	Z	4	0	0	0	5		
	EIM6197	TEZ DANIŞMANLIĞI VIII	Z	0	1	0	0	25	EIM6198	TEZ DANIŞMANLIĞI VIII	Z	0	1	0	0	25		
	Toplam Kredi/AKTS							0	30	Toplam Kredi/AKTS							0	30
TOPLAM KREDİ: 23 - TOPLAM AKTS: 240																		

Not: * Öğrenci isterse, danışmanının onayı ile her yarıyıl için en fazla 1 (bir) seçmeli dersini aynı AKTS değerinde olmak şartıyla diğer anabilim dallarından da alabilir.



BURSA ULUDAĞ ÜNİVERSİTESİ
FEN BİLİMLERİ ENSTİTÜSÜ
2023-2024 EĞİTİM ÖĞRETİM YILI DERS PLANLARI (SEÇMELİ DERSLER)

FR 1.1.1_02

ANABİLİM/ ANASANAT DALI		EKLEMELİ İMALAT														
BİLİM/ SANAT DALI / PROGRAMI		DOKTORA PROGRAMI														
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
	EIM6001	EKLEMELİ İMALATIN TEMELLERİ	S	3	0	0	3	6	EIM6002	EKLEMELİ VE GELENEKSEL İMALATTA METROLOJİ	S	3	0	0	3	6
	EIM6005	METAL EKLEMELİ İMALAT TEKNOLOJİLERİ	S	3	0	0	3	6	EIM6004	EKLEMELİ İMALAT İÇİN İLERİ TASARIM YÖNTEMLERİ	S	3	0	0	3	6
	MAK6201	MALZEMELERİN KARAKTERİZASYONU	S	3	0	0	3	6	EIM6006	EKLEMELİ İMALATTA METAMODELLEME VE YAPAY ZEKA UYGULAMALARI	S	3	0	0	3	6
	MAK6203	KATILAŞTIRMA PRENSİPLERİ	S	3	0	0	3	6	MAK6226	ATOMİZASYON VE PULVARİZASYON MEKANİZMALARI	S	3	0	0	3	6
	MAK6213	İLERİ TERMODİNAMİK	S	3	0	0	3	6	MAK6232	BİYOMEKANİKTE DENEYSEL ve SAYISAL METOTLAR	S	3	0	0	3	
	END6117	ÜRÜN TASARIMININ YÖNETİMİ	S	3	0	0	3	6	MAK6228	FAZ DÖNÜŞÜMLERİ	S	3	0	0	3	6
									END6144	ÜRÜN TASARIMINDA ERGONOMİ	S	3	0	0	3	6
	MAK6235	MAKİNA TASARIMINDA ÖMÜR HESAPLARI	S	3	0	0	3	6	MAK6234	GÜVENİLİRLİK TABANLI TASARIM OPTİMİZASYONU VE PROGRAMLAMA	S	3	0	0	3	6
								OTO6128	MÜHENDİSLİK KIRILMA MEKANİĞİ TEORİSİ VE UYGULAMALARI	S	3	0	0	3	6	



BURSA ULUDAĞ UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
2023-2024 ACADEMIC YEAR COURSE PLAN

FR 1.1.1_02

DEPARTMENT OF	ADDITIVE MANUFACTURING
DEPARTMENT / PROGRAM	DOCTORAL 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				
	EIM6191	PHD THESIS CONSULTING I	C	0	1	0	0	1	EIM6192	PHD THESIS CONSULTING II	C	0	1	0	0	1				
	EIM6181	ADVANCED TOPICS IN PHD THESIS I	C	4	0	0	0	5	EIM6182	ADVANCED TOPICS IN PHD THESIS II	C	4	0	0	0	5				
	EIM	ELECTIVE COURSE	E					6	EIM6172	SEMINAR	C	0	2	0	0	4				
	EIM	ELECTIVE COURSE	E					6	FEN6000	RESEARCH TECHNIQUES and PUBLICATION ETHICS	C	2	0	0	2	2				
	EIM	ELECTIVE COURSE	E					6	EIM	ELECTIVE COURSE	E					6				
		ELECTIVE COURSE *	E					6	EIM	ELECTIVE COURSE	E					6				
										ELECTIVE COURSE *	E					6				
Total Credits/ECTS								12	30	Total Credits/ECTS								11	30	
STAGE THESIS	III. TERM / FALL								IV. TERM / SPRING											
	EIM6183	ADVANCED TOPICS IN PHD THESIS III	C	4	0	0	0	5	EIM6184	ADVANCED TOPICS IN PHD THESIS IV	C	4	0	0	0	5				
	EIM6193	PHD THESIS CONSULTING III	C	0	1	0	0	15	EIM6194	PHD THESIS CONSULTING IV	C	0	1	0	0	25				
	YET6177	PHD PROFICIENCY EXAMINATION	C	0	0	0	0	10												
	Total Credits/ECTS								0	30	Total Credits/ECTS								0	30
	V. TERM / FALL								VI. TERM / SPRING											
	EIM6185	ADVANCED TOPICS IN PHD THESIS V	C	4	0	0	0	5	EIM6186	ADVANCED TOPICS IN PHD THESIS VI	C	4	0	0	0	5				
	EIM6195	PHD THESIS CONSULTING V	C	0	1	0	0	25	EIM6196	PHD THESIS CONSULTING VI	C	0	1	0	0	25				
	Total Credits/ECTS								0	30	Total Credits/ECTS								0	30
	VII. TERM / FALL								VIII. TERM / SPRING											
	EIM6187	ADVANCED TOPICS IN PHD THESIS VII	C	4	0	0	0	5	EIM6188	ADVANCED TOPICS IN PHD THESIS VIII	C	4	0	0	0	5				
EIM6197	PHD THESIS CONSULTING VIII	C	0	1	0	0	25	EIM6198	PHD THESIS CONSULTING VIII	C	0	1	0	0	25					
Total Credits/ECTS								0	30	Total Credits/ECTS								0	30	
TOTAL CREDITS: 23 - TOTAL ECTS: 240																				

Note: *: If the student wishes, with the approval of his/her advisor, he/she can take at maximum 1 (one) elective course from outside the field, provided that it has the same ECTS value for each semester.



BURSA ULUDAĞ UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
2023-2024 ACADEMIC YEAR COURSE PLAN (ELECTIVE COURSES)

FR 1.1.1_02

DEPARTMENT OF	ADDITIVE MANUFACTURING
DEPARTMENT / PROGRAM	DOCTORAL 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
	EIM6001	FUNDAMENTALS OF ADDITIVE MANUFACTURING	E	3	0	0	3	6	EIM6002	METROLOGY IN ADDITIVE AND CONVENTIONAL MANUFACTURING	E	3	0	0	3	6
	EIM6005	METAL ADDITIONAL MANUFACTURING TECHNOLOGIES	E	3	0	0	3	6	EIM6004	ADVANCED DESIGN METHODS FOR ADDITIVE MANUFACTURING	E	3	0	0	3	6
	MAK6201	CHARACTERIZATION OF MATERIALS	E	3	0	0	3	6	EIM6006	METAMODELING AND AI APPLICATIONS IN ADDITIVE MANUFACTURING	E	3	0	0	3	6
	MAK6203	PRINCIPLES OF SOLIDING	E	3	0	0	3	6	MAK6226	ATOMIZATION AND PULVARISATION MECHANISMS	E	3	0	0	3	6
	MAK6213	ADVANCED THERMODYNAMICS	E	3	0	0	3	6	MAK6232	EXPERIMENTAL AND NUMERICAL METHODS IN BIOMECHANIC	E	3	0	0	3	
	END6117	MANAGEMENT OF PRODUCT DESIGN	E	3	0	0	3	6	MAK6228	PHASE TRANSFORMATIONS	E	3	0	0	3	6
	MAK6235	FATIGUE IN MACHINE DESIGN	E	3	0	0	3	6	END6144	ERGONOMICS IN PRODUCT DESIGN	E	3	0	0	3	6
									MAK6234	RELIABILITY BASED DESIGN OPTIMIZATION AND PROGRAMMING	E	3	0	0	3	6
									OTO6128	ENGINEERING FRACTURE MECHANICS THEORY AND APPLICATIONS	E	3	0	0	3	6