



BURSA ULUDAĞ ÜNİVERSİTESİ
SAĞLIK BİLİMLERİ ENSTİTÜSÜ
2022-2023 EĞİTİM ÖĞRETİM YILI DERS PLANLARI

FR 1.1.1_02

ANABİLİM/ ANASANAT DALI Translasyonel Tıp Anabilim Dalı

BİLİM/ SANAT DALI / PROGRAMI Bütünleşik Doktora 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
	SAB5001	BİYOİSTATİSTİK	Z	2	2	0		5	SAB5002	BİYOİSTATİSTİK	Z	2	2	0		5
	TTIP5191	TEZ DANIŞMANLIĞI I	Z	0	1	0		1	TTIP5192	TEZ DANIŞMANLIĞI II	Z	0	1	0		1
	TAN5001	TERMİNOLOJİ	Z	2	0	0		4	TTIP5172	SEMİNER	Z	0	2	0		5
	TAN5003	İNSAN ANATOMİSİNE GİRİŞ	Z	2	2	0		6	TTIP5002	TRANSLASYONEL TIP İÇİN SİTOLOJİ	Z	3	0	0		6
	SEÇMELİ DERSLER							14	SEÇMELİ DERSLER							13
	TTIP5181	YÜKSEK LİSANS UZMANLIK ALAN DERSİ I	S	4	0	0		5	TTIP5182	YÜKSEK LİSANS UZMANLIK ALAN DERSİ II	S	4	0	0		5
	TTIP5003	BİYOTEKNOLOJİNİN TEMELLERİ VE UYGULAMALARI	S	2	0	0		5	TTIP5004	MEDİKAL İNFORMATİK	S	3	0	0		6
	TTIP5005	BİYOİNFORMATİĞİN TEMELLERİ VE UYGULAMALARI	S	2	0	0		5	TTIP5006	TEMEL MATEMATİK	S	2	2	0		5
TTIP5007	BİYOMÜHENDİSLİĞİN TEMELLERİ VE UYGULAMALARI	S	2	0	0		5	TTIP5008	OMİK TEKNOLOJİLERİ VE UYGULAMALARI	S	3	0	0		5	
TTIP5009	BİYOYARARLANIMDA KİMYASAL ANALİZ VE DEĞERLENDİRME	S	3	0	0		6	TTIP5010	DERMATOLOJİDE YAPAY ZEKA VE TELETIP	S	2	0	0		6	
								TTIP5012	METABOLİZMADA OKSİDATİF STRES-ANTİOKSİDAN İLİŞKİSİ VE TAYİNİ	S	3	0	0		6	
Toplam Kredi/AKTS							30	Toplam Kredi/AKTS							30	
TEZ AŞAMASI	III. YARIYIL / GÜZ								IV. YARIYIL / BAHAR							
	TTIP6191	TEZ DANIŞMANLIĞI I	Z	0	1	0		1	TTIP6192	TEZ DANIŞMANLIĞI II	Z	0	1	0		1
	SAB6003	AKTARILABİLİR BECERİLER	Z	3	0	0		5	TTIP6172	SEMİNER	Z	0	2	0		5
									TTIP6024	BİLİMSSEL ARAŞTIRMA TEKNİKLERİ, ARAŞTIRMA VE YAYIN ETİĞİ	Z	1	0	0		1
	SEÇMELİ DERSLER							24	SEÇMELİ DERSLER							23
	TTIP5003	BİYOTEKNOLOJİNİN TEMELLERİ VE UYGULAMALARI	S	2	0	0		5	TTIP5004	MEDİKAL İNFORMATİK	S	3	0	0		6
	TTIP5005	BİYOİNFORMATİĞİN TEMELLERİ VE UYGULAMALARI	S	2	0	0		5	TTIP5006	TEMEL MATEMATİK	S	2	2	0		5
	TTIP5007	BİYOMÜHENDİSLİĞİN TEMELLERİ VE UYGULAMALARI	S	2	0	0		5	TTIP5008	OMİK TEKNOLOJİLERİ VE UYGULAMALARI	S	3	0	0		5
	TTIP5009	BİYOYARARLANIMDA KİMYASAL ANALİZ VE DEĞERLENDİRME	S	3	0	0		6	TTIP5010	DERMATOLOJİDE YAPAY ZEKA VE TELETIP	S	2	0	0		6
	TTIP6181	DOKTORA UZMANLIK ALAN DERSİ I	S	4	0	0		5	TTIP5012	METABOLİZMADA OKSİDATİF STRES-ANTİOKSİDAN İLİŞKİSİ VE TAYİNİ	S	3	0	0		6
	TTIP6001	TRANSLASYONEL TIBBIN PRENSİPLERİ	S	3	0	0		7	TTIP6182	DOKTORA UZMANLIK ALAN DERSİ II	S	4	0	0		5
	TTIP6009	BİYOMEDİKAL 3B BASKILAMA	S	2	0	0		5	TTIP6004	KİŞİYE ÖZGÜ VE FONKSİYONEL TIP	S	2	0	0		5
	TTIP6011	UYGULAMALI BİYOİNFORMATİK	S	1	2	0		5	TTIP6006	FARMAKOGENETİK	S	2	0	0		5

TTIP6013	ONKOGENETİK	S	2	0	0	5	TTIP6014	KLİNİĞE YANSIYAN BİLGİSAYAR PROGRAMLAMA	S	2	0	0	5
TTIP6015	İLAÇ UYGULAMALARI VE KEŞFİ	S	2	0	0	5	TTIP6016	AŞI TEKNOLOJİSİ	S	2	0	0	5
TTIP6017	MİKROBİYOTA	S	3	0	0	5	TTIP6020	GENOM DÜZENLEME TEKNOLOJİLERİ	S	2	0	0	5
TTIP6019	BİYOSENSÖRLER	S	2	0	0	5	TTIP6022	TIPTA FONKSİYONEL POLİMERLER	S	3	0	0	6
TTIP6021	BİYOMARKIR KEŞFİ	S	2	0	0	5	TTIP6024	BİYOMAKROMOLEKÜLLER ELDESİ VE ANALİZ YÖNTEMLERİ	S	3	0	0	6
TTIP6023	BİYOMALZEMELER VE UYGULAMA ALANLARI	S	3	0	0	5							
TTIP6025	İLERİ NANOTİP MALZEMELERİ	S	3	0	0	6							
TTIP6027	İNSANDA DNA OKSİDASYONU VE TAYİN YÖNTEMLERİ	S	3	0	0	6							
Toplam Kredi/AKTS						30	Toplam Kredi/AKTS						30
V. YARIYIL / GÜZ							VI. YARIYIL / BAHAR						
TTIP6183	DOKTORA UZMANLIK ALAN DERSİ III	Z	4	0	0	5	TTIP6184	DOKTORA UZMANLIK ALAN DERSİ IV	Z	4	0	0	5
TTIP6193	TEZ DANIŞMANLIĞI III	Z	0	1	0	10	TTIP6194	TEZ DANIŞMANLIĞI IV	Z	0	1	0	25
YET6177	YETERLİK SINAVI	Z	0	0	0	15							
Toplam Kredi/AKTS						30	Toplam Kredi/AKTS						30
VII. YARIYIL / GÜZ							VIII. YARIYIL / BAHAR						
TTIP6185	DOKTORA UZMANLIK ALAN DERSİ V	Z	4	0	0	5	TTIP6186	DOKTORA UZMANLIK ALAN DERSİ VI	Z	4	0	0	5
TTIP6195	TEZ DANIŞMANLIĞI V	Z	0	1	0	25	TTIP6196	TEZ DANIŞMANLIĞI VI	Z	0	1	0	25
Toplam Kredi/AKTS						30	Toplam Kredi/AKTS						30
IX. YARIYIL / GÜZ							X. YARIYIL / BAHAR						
TTIP6187	DOKTORA UZMANLIK ALAN DERSİ VII	Z	4	0	0	5	TTIP6188	DOKTORA UZMANLIK ALAN DERSİ VIII	Z	4	0	0	5
TTIP6197	TEZ DANIŞMANLIĞI VII	Z	0	1	0	25	TTIP6198	TEZ DANIŞMANLIĞI VIII	Z	0	1	0	25
Toplam Kredi/AKTS						30	Toplam Kredi/AKTS						30
TOPLAM AKTS: 300													

Anabilim Dalı Başkanı
Prof. Dr. Halil SAĞLAM

Enstitü Müdürü
Prof. Dr. Gülşah ÇEÇENER



BURSA ULUDAG UNIVERSITY
INSTITUTE OF HEALTH SCIENCE
2022-2023 ACADEMIC YEAR COURSE PLAN

FR 1.1.1_02

DEPARTMENT OF

Translational Medicine

DEPARTMENT / PROGRAM

Integrated PhD Program

I. TERM / FALL

Code	Course Title	Type	T	U	L	Credit	ECTS
SAB5001	BIOSTATISTICS	C	2	2	0		5
TTIP5191	THESIS I	C	0	1	0		1
TAN5001	TERMINOLOGIA	C	2	0	0		4
TAN5003	INTRODUCTION TO HUMAN ANATOMY	C	2	2	0		6
OPTIONAL COURSES							14
TTIP5181	ADVANCED TOPICS IN MASTER THESIS I	E	4	0	0		5
TTIP5003	FUNDAMENTALS AND APPLICATIONS OF BIOTECHNOLOGY	E	2	0	0		5
TTIP5005	FUNDAMENTALS AND APPLICATIONS OF BIOINFORMATICS	E	2	0	0		5
TTIP5007	FUNDAMENTALS AND APPLICATIONS OF BIOENGINEERING	E	2	0	0		5
TTIP5009	CHEMICAL ANALYSIS AND EVALUATION IN BIOAVAILABILITY	E	3	0	0		6
Total Credits/ECTS							30

II. TERM / SPRING

Code	Course Title	Type	T	U	L	Credit	ECTS
SAB5002	BIOSTATISTICS	C	2	2	0		5
TTIP5192	THESIS II	C	0	1	0		1
TTIP5172	SEMINAR	C	0	2	0		5
TTIP5002	CYTOLOGY FOR TRANSLATIONAL MEDICINE	C	3	0	0		6
OPTIONAL COURSES							13
TTIP5182	ADVANCED TOPICS IN MASTER THESIS I	E	4	0	0		5
TTIP5004	MEDICAL INFORMATICS	E	3	0	0		6
TTIP5006	BASIC MATHEMATICS	E	2	2	0		5
TTIP5008	OMIC TECHNOLOGIES AND APPLICATIONS	E	3	0	0		5
TTIP5010	ARTIFICIAL INTELLIGENCE AND TELEMEDICINE IN DERMATOLOGY	E	2	0	0		6
TTIP5012	RELATIONSHIP AND DETERMINATION OF OXIDATIVE STRESS-ANTIOXIDANT IN METABOLISM	E	3	0	0		6
Total Credits/ECTS							30

III. TERM / FALL

TTIP6191	THESIS I	C	0	1	0		1
SAB6003	TRANSFERABLE SKILLS	C	3	0	0		5
OPTIONAL COURSES							24
TTIP5003	FUNDAMENTALS AND APPLICATIONS OF BIOTECHNOLOGY	E	2	0	0		5
TTIP5005	FUNDAMENTALS AND APPLICATIONS OF BIOINFORMATICS	E	2	0	0		5
TTIP5007	FUNDAMENTALS AND APPLICATIONS OF BIOENGINEERING	E	2	0	0		5
TTIP6181	ADVANCED TOPICS IN PhD THESIS I	E	4	0	0		5
TTIP6001	PRINCIPLES OF TRANSLATIONAL MEDICINE	E	3	0	0		7
TTIP6009	BIOMEDICAL 3D PRINTING	E	2	0	0		5
TTIP6011	APPLIED BIOINFORMATICS	E	1	2	0		5
TTIP6013	ONCOGENETICS	E	2	0	0		5
TTIP6015	DRUG APPLICATIONS AND DISCOVERY	E	2	0	0		5
TTIP6017	MICROBIOTA	E	3	0	0		5

IV. TERM / SPRING

TTIP6192	THESIS II	C	0	1	0		1
TTIP6172	SEMINAR	C	0	2	0		5
TTIP6024	SCIENTIFIC RESEARCH TECHNIQUES, RESEARCH AND PUBLICATION ETHICS	C	1	0	0		1
OPTIONAL COURSES							23
TTIP5004	MEDICAL INFORMATICS	E	3	0	0		6
TTIP5006	BASIC MATHEMATICS	E	2	2	0		5
TTIP5008	OMIC TECHNOLOGIES AND APPLICATIONS	E	3	0	0		5
TTIP5010	ARTIFICIAL INTELLIGENCE AND TELEMEDICINE IN DERMATOLOGY	E	2	0	0		6
TTIP6182	ADVANCED TOPICS IN PhD THESIS II	E	4	0	0		5
TTIP6004	PERSONAL AND FUNCTIONAL MEDICINE	E	2	0	0		5
TTIP6006	PHARMACOGENETIC	E	2	0	0		5
TTIP6014	CLINICAL REFLECTED COMPUTER PROGRAMMIN	E	2	0	0		5
TTIP6016	VACCINE TECHNOLOGY	E	2	0	0		5
TTIP6020	GENOME EDITING TECHNOLOGIES	E	2	0	0		5

TTIP6019	BIOSENSORS	E	2	0	0	5	TTIP6022	FUNCTIONAL POLYMERS IN MEDICINE	E	3	0	0	6
TTIP6021	BIOMARKIR DISCOVERY	E	2	0	0	5	TTIP6024	METHODS OF OBTAINING AND ANALYSIS OF BIOMACROMECECULES	E	3	0	0	6
TTIP6023	BIOMATERIALS AND APPLICATION AREAS	E	3	0	0	5							
TTIP6025	ADVANCED NANOMEDICINE MATERIALS	E	3	0	0	6							
TTIP6027	DNA OXIDATION AND DETERMINATION METHODS IN HUMAN	E	3	0	0	6							
Total Credits/ECTS						30	Total Credits/ECTS						30
V. TERM / FALL							VI. TERM / SPRING						
TTIP6183	ADVANCED TOPICS IN PhD THESIS III	C	4	0	0	5	TTIP6184	ADVANCED TOPICS IN PhD THESIS IV	C	4	0	0	5
TTIP6193	THESIS III	C	0	1	0	10	TTIP6194	THESIS IV	C	0	1	0	25
YET6177	PROFICIENCY TEST	C	0	0	0	15							
Total Credits/ECTS						30	Total Credits/ECTS						30
VII. TERM / FALL							VIII. TERM / SPRING						
TTIP6185	ADVANCED TOPICS IN PhD THESIS V	C	4	0	0	5	TTIP6186	ADVANCED TOPICS IN PhD THESIS VI	C	4	0	0	5
TTIP6195	THESIS V	C	0	1	0	25	TTIP6196	THESIS VI	C	0	1	0	25
Total Credits/ECTS						30	Total Credits/ECTS						30
IX. TERM / FALL							X. TERM / SPRING						
TTIP6187	ADVANCED TOPICS IN PhD THESIS VII	C	4	0	0	5	TTIP6188	ADVANCED TOPICS IN PhD THESIS VIII	C	4	0	0	5
TTIP6197	THESIS VII	C	0	1	0	25	TTIP6198	THESIS VIII	C	0	1	0	25
Total Credits/ECTS						30	Total Credits/ECTS						30
TOTAL ECTS: 300													

Head of Department
Prof. Dr. Halil SAGLAM

Director of Institute
Prof. Dr. Gulsah CECENER