



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

FR 1.1.1_02

ANABİLİM/ ANASANAT DALI

BİYOTEKNOLOJİ

BİLİM/ SANAT DALI / PROGRAMI

Biyoteknoloji / 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
	BYT5181	YÜKSEK LİSANS UZMANLIK ALAN DERSİ I	Z	4	0	0	0	5	BYT5182	YÜKSEK LİSANS UZMANLIK ALAN DERSİ II	Z	4	0	0	0	5
	BYT5191	TEZ DANIŞMANLIĞI I	Z	0	1	0	0	1	BYT5192	TEZ DANIŞMANLIĞI I	Z	0	1	0	0	1
	BYT5001	BİYOTEKNOLOJİYE GİRİŞ I	Z	3	0	0	3	6	FEN5000	ARAŞTIRMA TEKNİKLERİ VE YAYIN ETİĞİ	Z	2	0	0	2	2
	MBG5425	İŞLEVSEL GENOMİK	S	3	0	0	3	6	BYT5172	SEMİNER	Z	0	2	0	0	4
	BYT5009	MOLEKÜLER BİYOLOJİ UYGULAMALARINA GİRİŞ	S	3	0	0	3	6	BYT5002	BİYOTEKNOLOJİYE GİRİŞ II	Z	3	0	0	3	6
	MBG5415	PROTEİN VE ENZİM BİYOKİMYASI	S	3	0	0	3	6	MBG5436	REKOMBİNANT DNA TEKNOLOJİSİ VE GENETİK MÜHENDİSLİĞİ	S	3	0	0	3	6
	VBK5003	BİYOKİMYASAL METOTLAR	S	3	0	0	3	6	BYT5004	BİTKİ ISLAHINA GİRİŞ	S	3	0	0	3	6
	TAB5007	YEM BİTKİLERİ EKOLOJİSİ	S	3	0	0	3	6	MBG5424	PROTEOMİK	S	3	0	0	3	6
	BYT5003	ÇEVRE BİYOTEKNOLOJİSİNE GİRİŞ	S	3	0	0	3	6	MBG5430	KANSER MOLEKÜLER BİYOLOJİSİ	S	3	0	0	3	6
	MBG5433	HÜCRE DÖNGÜSÜ VE KONTROL MEKANİZMALARI	S	3	0	0	3	6	BYT5006	HAYVAN BESLEMENİN TEMEL İLKELERİ	S	3	0	0	3	6
	BYT5019	MİKROBİYOLOJİDE TANI YÖNTEMLERİ- TEMEL KAVRAMLAR	S	3	0	0	3	6	BYT5018	GELENEKSEL ve ENDÜSTRİYEL BİYOTEKNOLOJİK GIDALAR	S	3	0	0	3	6
	CEV5305	BİYOYAKIT ÜRETİMİ	S	3	0	0	3	6	BYT5008	MİKROBİYOLOJİK TANI YÖNTEMLERİ	S	3	0	0	3	6
	BYT5015	TEKSTİLDE BİYOTEKNOLOJİK VE BİYOMİMETİK UYGULAMALAR	S	3	0	0	3	6	ZTK5304	ÇİFTLİK HAYVANLARINDA GENOM ANALİZİ	S	3	0	0	3	6
	BM5701	BİLGİ ERİŞİM SİSTEMLERİ	S	3	0	0	3	6	VBK5010	KANSER METABOLİZMASI	S	3	0	0	3	6
	BYT5013	BİTKİ BİYOTEKNOLOJİSİNE GİRİŞ	S	3	0	0	3	6	BM5130	BİYOİNFORMATİK ALGORİTMALARI	S	3	0	0	3	6
	BYT5005	POPÜLASYON GENETİĞİNE GİRİŞ	S	3	0	0	3	6	BYT5016	ATIK VE ATIK SU İÇİN BİYOKİMYA	S	3	0	0	3	6
	BİO5209	ONKOGENLER VE KARSİNOGENEZ	S	3	0	0	3	6	BİO5206	EKOGENETİK	S	3	0	0	3	6
	BİO5211	EKOTOKSİKOLOJİ	S	3	0	0	3	6	GMB5030	GIDA AROMA MADDELERİ VE AROMA KİMYASI	S	3	0	0	3	6
	GMB5031	GIDA SANAYİNDE ENZİM KULLANIMI	S	3	0	0	3	6	BYT5014	BİLİM TARİHİ VE ETİĞİNE GİRİŞ	S	3	0	0	3	6
	BYT5017	FONKSİYONEL GIDALARA GİRİŞ	S	3	0	0	3	6	BYT5012	HAYVAN BİYOTEKNOLOJİSİNE GİRİŞ	S	3	0	0	3	6



/BURSA ULUDAĞ UNIVERSITY
FEN BİLİMLERİ
2023-2024 ACADEMIC YEAR COURSE PLAN

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DEPARTMENT OF	BIOTECHNOLOGY
DEPARTMENT / PROGRAM	BIOTECHNOLOGY / 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
	BYT5181	ADVANCED TOPICS IN MSC THESIS I	Z	4	0	0	0	5	BYT5182	ADVANCED TOPICS IN MSC THESIS II	Z	4	0	0	0	5
	BYT5191	THESIS CONSULTING I	Z	0	1	0	0	1	BYT5192	THESIS CONSULTING II	Z	0	1	0	0	1
	BYT5001	INTRODUCTION TO BIOTECHNOLOGY I	Z	3	0	0	3	6	FEN5000	RESEARCH TECHNIQUES AND PUBLICATION ETHICS	Z	2	0	0	2	2
	MBG5425	FUNCTIONAL GENOMICS	E	3	0	0	3	6	BYT5172	SEMİNAR	Z	0	2	0	0	4
	BYT5009	INTRODUCTION TO MOLECULAR BIOLOGY APPLICATIONS	E	3	0	0	3	6	BYT5002	INTRODUCTION TO BIOTECHNOLOGY II	Z	3	0	0	3	6
	MBG5415	PROTEIN AND ENZYME BIOCHEMISTRY	E	3	0	0	3	6	MBG5436	RECOMBINANT DNA TECHNOLOGY AND GENETIC ENGINEERING	E	3	0	0	3	6
	VBK5003	BIOCHEMICAL METHODS	E	3	0	0	3	6	MBG5424	PROTEOMICS	E	3	0	0	3	6
	TAB5007	ECOLOGY OF FORAGES	E	3	0	0	3	6	MBG5430	MOLECULAR BIOLOGY OF CANCER	E	3	0	0	3	6
	BYT5003	INTRODUCTION TO ENVIRONMENTAL BIOTECHNOLOGY	E	3	0	0	3	6	BYT5006	BASIC PRINCIPLES OF ANIMAL NUTRITION	E	3	0	0	3	6
	MBG5433	CELL CYCLE REGULATION	E	3	0	0	3	6	BYT5004	INTRODUCTION TO PLANT BREEDING	E	3	0	0	3	6
	BYT5019	DIAGNOSTIC METHODS IN MICROBIOLOGY BASIC CONCEPTS	E	3	0	0	3	6	BYT5008	DIAGNOSTIC METHODS IN MICROBIOLOGY	E	3	0	0	3	6
	CEV5305	PRODUCTION OF BIOFUEL	E	3	0	0	3	6	ZTK5304	GENOME ANALYSIS IN LIVESTOCK	E	3	0	0	3	6
	BYT5015	BIOMIMETIC APPLICATIONS IN TEXTILES	E	3	0	0	3	6	VBK5010	CANCER METABOLISM	E	3	0	0	3	6
	BM5701	INTRODUCTION TO INFORMATION RETRIEVAL	E	3	0	0	3	6	BM5130	BIOINFORMATIC ALGORITHM	E	3	0	0	3	6
	BYT5013	INTRODUCTION TO PLANT BIOTECHNOLOGY	E	3	0	0	3	6	BYT5016	BIOCHEMISTRY FOR WASTE AND WASTEWATER	E	3	0	0	3	6
	BYT5005	INTRODUCTION TO POPULATION GENETICS	E	3	0	0	3	6	BYT5012	INTRODUCTION TO ANIMAL BIOTECHNOLOGY	E	3	0	0	3	6
	BİO5209	ONCOGENES AND CARCINOGENESIS	E	3	0	0	3	6	BYT5014	INTRODUCTION TO THE HISTORY AND ETHICS OF SCIENCE	E	3	0	0	3	6
	BİO5211	ECOTOXICOLOGY	E	3	0	0	3	6	BİO5206	ECHOGENETICS	E	3	0	0	3	6
	GMB5031	USE OF ENZYMES IN THE FOOD INDUSTRY	E	3	0	0	3	6	GMB5030	FOOD AROMA AND AROMA CHEMISTRY	E	3	0	0	3	6
	BYT5017	INTRODUCTION TO FUNCTIONAL FOODS	E	3	0	0	3	6	BYT5018	TRADITIONAL AND INDUSTRIAL BIOTECHNOLOGICAL FOODS	E	3	0	0	3	6

