

BEZMIALEM VAKIF UNIVERSITY INSTITUTE OF HEALTH SCIENCES BIOTECHNOLOGY THESIS MASTER'S PROGRAM COURSE PLAN TO BE APPLIED FOR THE 2023-2024 ACADEMIC YEAR AND BEYOND												
1. YARIYIL/2. SEMESTER							1. YARIYIL/2. SEMESTER					
Course Code	Course Name	C/E	T	P	Cr	ECTS	Course Code	Course Name	C/E	T	P	Cr
	Compulsory Course	C						Compulsory Course	C			
	Elective Course	E						Elective Course	E			
The total of the 1st and 2nd Semesters must be at least 21 credits and 6 courses. At least 7 courses must be taken, excluding the seminar. The seminar course can be taken in the period following the appointment of the student.												
3. YARIYIL/4. SEMESTER							3. YARIYIL/4. SEMESTER					
Course Code	Course Name	C/E	T	P	Cr	ECTS	Course Code	Course Name	C/E	T	P	Cr
BYT5003	Specialization Course I	C	4	0	4	6	BYT5004	Specialization Course II	C	4	0	0
BYT5000	Master Thesis Study I	C	0	0	0	24	BYT5001	Master Thesis Study II	C	0	0	0
Total Credits					4	30	Total Credits					4
COMPULSORY COURSES												
Course Code	Course Name	T	P	Cr	ECTS							
SBE7102	Research Techniques and Ethics	3	0	3	5							
BYT5101	Introduction to Biotechnology	3	0	3	10							
BYT5102	Microbiology and Its Techniques	2	2	3	9							
BYT5002	Seminar	0	0	0	6							
ELECTIVE COURSES												
Course Code	Course Name	T	P	Cr	ECTS							
BYT5103	Fundamentals of Pharmaceutical Biotechnology	3	0	3	8							
BYT5104	Medical Biology	3	0	3	8							
BYT5105	Basic Pharmacology	3	0	3	8							
BYT5106	Proteomics and Metabolomics	3	0	3	7							
BYT5107	Gene Therapy Products and Biotechnological Applications	3	0	3	8							
BYT5109	Diagnostic Methods Used in Biochemistry	3	0	3	8							
BYT5110	Controlled and Targeted Biotechnological Drugs	3	0	3	7							
BYT5111	Plant Biotechnology	3	0	3	7							
BYT5112	Polymeric Drug Delivery Systems	3	0	3	7							
BYT5113	Biomaterials	3	0	3	8							
BYT5114	Microbial Transformations	3	0	3	8							
BYT5115	Genetic Analysis Methods and PCR-Based Genetic Analysis	2	2	3	8							
BYT5116	Nanostructures and Nanotechnology	3	0	3	7							
BYT5117	Smart Materials	3	0	3	7							
BYT5118	Bioethics and Biosafety	3	0	3	7							
BYT5119	Characterization Techniques	2	2	3	8							
BYT5120	Basic Immunology	3	0	3	7							
BYT5121	Industrial Biotechnology	3	0	3	7							
BYT5122	Special Topics in Biotechnology	3	0	3	7							
BYT5123	Introduction to Bioinformatics	3	0	3	7							
BYT5124E	Molecular Developmental Biology	3	0	3	7							
BYT5120E	Basic Immunology	3	0	3	7							
BYT5125	Mechanics of Biological Tissues	3	0	3	7							
BYT5126	Basic Genome Analysis	3	0	3	8							
BYT5127	Biosafety in Research Laboratories	3	0	3	7							
BYT5128	Practical and Theoretical Approaches in the Research Laboratory	1	4	3	7							
BYT5129	Fundamentals of Cancer Biology and Therapeutic Approaches	3	0	3	8							
SBE7101	Biostatistics	3	0	3	5							
SBE7103	Science Diplomacy	3	0	3	5							
SBE7104	Medical English I	3	0	3	5							
SBE7105	Medical English II	3	0	3	5							

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6
24
30