

Study plan BIOT-MgD14 - Biotechnologies - master programme					
Guarantee of study programme: prof. Ing. Stanislav Miertuš, DrSc.					
Compulsory subjects					
Abbr.	Name	Credit	Scope	Year	Sem.
KCHEM/md301/14	Instrumental Methods of Analysis	4	2/1	1	Z
KBT/md301/14	Molecular Biology II	4	3/0	1	Z
KBIO/md200/15	Genomics	3	2/0	1	Z
KBIO/md201/15	Application of Recombinant DNA Techniques	3	1/1	1	Z
KBT/md302/14	Laboratory Practice in Biotechnologies I	4	0/5	1	Z
KBT/md305/14	Laboratory Practice for Term Paper I	4	0/4	1	Z
KBIO/md202/15	Proteomics	3	2/0	1	L
KBT/md308/14	Industrial Biotechnologies	4	2/0	1	L
KBT/md309/14	Pharmaceutical and Medical Biotechnologies	4	2/0	1	L
KBT/md300/15	Biofuels and Products from Renewable Resources	4	2/0	1	L
KBT/md303/14	Laboratory Practice in Biotechnologies II	4	0/6	1	L
KBT/md306/14	Laboratory Practice for Term Paper II	4	0/4	1	L
KCHEM/bd501/15	Bioanalytical Chemistry	4	2/1	2	Z
KBT/md314/14	Bioengineering	4	2/0	2	Z
KBT/md310/14	Agricultural Biotechnologies	4	3/0	2	Z
KER/md201/15	Environmental Biotechnologies	4	3/0	2	Z
KBT/md304/14	Laboratory Practice in Biotechnologies III	4	0/6	2	Z
KBT/md307/14	Laboratory Practice for Term Paper III	4	0/4	2	Z
KBT/md315/14	Master Thesis Seminar	4	0/2	2	L
KBT/md316/14	Laboratory Practice for Master Thesis	10	0/23	2	L
KBT/md800/15	Master Thesis Defence	16		2	L
Compulsory Elective subjects					
Abbr.	Name	Credit	Scope	Year	Sem.
KBIO/md203/15	Molecular Biology Databases	3	1/1	1	Z
KBT/md312/14	Biochemistry II	3	2/0	1	Z
KBIO/md305/14	Forensic Molecular Biology and Chemistry	3	2/0	1	Z
KBIO/md205/15	Applied Microbiology	3	2/0	1	L
KCHEM/md302/14	Chemometrics	3	2/1	1	L
KCHEM/md303/14	Bioorganic Chemistry	3	2/0	1	L
KER/md200/15	Environmental Chemistry	3	2/0	1	L
KBIO/md204/15	Food Safety	3	2/0	2	Z
KBT/md317/14	Computer-Aided Molecular Design	3	2/1	2	Z
KBIO/md208/15	Specific Cloning Systems	3	2/0	2	Z
KCHEM/md305/14	Methods of Biomacromolecular Analysis	3	2/0	2	Z
Selective subjects					
Abbr.	Name	Credit	Scope	Year	Sem.
KBT/md313/14	Catalysis and Biocatalysis	2	2/0	1	Z
KCHEM/md304/14	Natural Substances and Synthesis of Pharmaceuticals	2	2/1	1	Z
KBIO/md207/15	Biotechnological Applications of Bacteriophages and Viruses	2	2/0	1	L
KBIO/md308/14	Legislation and Biological Safety of Biotechnologies	2	2/0	1	L
KBT/md319/14	Fundamentals of Immunology	2	2/0	2	Z
KBIO/md214/15	Genetically Modified Organisms	2	2/0	2	Z
KBT/md318/14	Scientific Research Design	2	2/0	2	Z