

Study plan ACH-MgD15 – Biomedical Chemistry - master programme					
Guarantee of study programme: prof. RNDr. Jaromír Pastorek, DrSc.					
Compulsory subjects					
Abbr.	Name	Credit	Scope	Year	Sem.
KCHEM/md/1/17	Advanced Biochemistry	6	2/1	1	Z
KBIO/md/1/17	Fundamentals of Genetics	3	2/1	1	Z
KBIO/md/2/17	Laboratory Exercises in Molecular Biology	3	0/4	1	Z
KCHEM/md/2/17	Medicinal Chemistry	5	2/1	1	Z
KCHEM/md/3/17	Laboratory Exercises in Medicinal Chemistry	5	0/4	1	Z
KCHEM/md/4/17	Molecular Biology and Genomics	3	2/1	1	Z
KCHEM/md/5/17	Fundamentals of Anatomy and Histology	3	2/1	1	Z
KCHEM/md/10/17	Bioorganic Chemistry and Proteomics	5	2/1	1	L
KCHEM/md/11/17	Instrumental Methods of Analysis	4	2/1	1	L
KCHEM/md/12/17	Laboratory Exercises in Instrumental Methods of Analysis	3	0/4	1	L
KCHEM/md/13/17	Fundamentals of Physiology	4	2/1	1	L
KCHEM/md/14/17	Fundamentals of Immunology	4	2/1	1	L
KCHEM/md/7/17	Pharmaceutical Chemistry	5	2/1	1	L
KCHEM/md/8/17	Laboratory Exercises in Pharmaceutical Chemistry	3	0/3	1	L
KCHEM/md/18/17	Bioanalytical Chemistry	5	2/1	2	Z
KCHEM/md/19/17	Methods of Clinical and Biochemical Analysis	4	2/1	2	Z
KCHEM/md/20/17	Fundamentals of Pathophysiology	4	2/1	2	Z
KCHEM/md/21/17	Laboratory Exercises in Clinical and Biochemical Analyses	4	0/4	2	Z
KCHEM/md/22/17	Speciality Seminar	3	0/3	2	Z
KBF/md/2/17	Biomedical Imaging and Biophotonic Applications	4	2/1	2	Z
KBIO/md/4/17	Bioinformatics	4	1/2	2	Z
KCHEM/md/27/17	Laboratory Practice for Master's Thesis	4	0/2	2	L
KCHEM/md/26/17	Master's Thesis Seminar	10	0/23	2	L
Compulsory Elective subjects					
Abbr.	Name	Credit	Scope	Year	Sem.
KCHEM/md/9/17	Fundamentals of Virology	2	2/0	1	Z
KBT/md/1/17	Enzymology	2	2/0	1	Z

KBT/md/2/17	Medical Biopolymers and Biomaterials	2	2/0	1	Z
KCHEM/md/6/17	Forensic Chemistry	2	2/0	1	Z
KER/md/1/17	Physical Diagnostic Techniques	2	2/0	1	Z
KBF/md/01/17	Medical Biophysics	2	2/1	1	L
KBT/md/3/17	Medical and Pharmaceutical Biotechnologies	2	2/1	1	L
KCHEM/md/15/17	Natural Substances and Drug Synthesis	2	2/1	1	L
KCHEM/md/16/17	Xenobiochemistry	2	2/1	1	L
KCHEM/md/17/17	Chemometrics	2	2/1	1	L
KCHEM/md/23/17	Computer Assisted Molecular Modelling	2	1/2	2	Z
KCHEM/md/24/17	Trace Analysis	2	2/0	2	Z
KCHEM/md/25/17	Bioinorganic Chemistry	2	2/0	2	Z
KBIO/md/5/17	Clinical Microbiology	2	2/0	2	Z
KBT/md/4/17	Pharmacokinetics	2	2/0	2	Z
Selective subjects					
Abbr.	Name	Credit	Scope	Year	Sem.
KER/md/2/17	Environmental Chemistry	2	2/0	1	Z
KAI/md/1/17	Fundamentals of Management	2	2/0	1	Z
KAI/md/2/17	Applied Economics	2	2/0	1	Z
KOJP/md/1/17	Professional Communication in English Language I	2	0/2	1	Z
KAI/md/3/17	Fundamentals of Marketing	2	2/0	1	L
KAI/md/4/17	Project Management	2	2/0	1	L
KAI/md/5/17	Fundamentals of Accounting	2	2/0	1	L
KBIO/md/6/17	Bioethics	2	2/0	1	L
KOJP/md/2/17	Professional Communication in English Language II	2	0/2	1	L
State Examinations					
Abbr.	Name	Credit	Scope	Year	Sem.
KCHEM/md/28/17	Master's Thesis Defence	8		2	L
KCHEM/md/29/17	Biomedical Chemistry	8		2	L