

Study plan BT-BcD15 - Biotechnologies - bachelor programme					
Guarantee of study programme: doc. Ing. Stanislav Šilhár, PhD.					
Compulsory subjects					
Abbr.	Name	Credit	Scope	Year	Sem.
KCH/bd300/15	General Chemistry	5	3/2	1	Z
KCH/bd301/15	Laboratory Practice in General Chemistry	4	0/4	1	Z
KAI/bd100/15	Mathematics I	4	2/2	1	Z
KBIO/bd200/15	Biology I	5	2/0	1	Z
KBT/bd005/15	Laboratory Practice in Biology I	4	0/4	1	Z
KBIO/bd205/10	Introduction to Biotechnologies	3	2/0	1	Z
KCH/bd302/15	Basic Chemical Calculations	3	0/2	1	Z
KOJP/bd201/15	English for Science I	2	0/2	1	Z
KCH/bd316/15	Inorganic Chemistry	4	2/1	1	L
KCH/bd304/15	Laboratory Practice in Inorganic Chemistry	3	0/3	1	L
KAI/bd101/15	Mathematics II	4	2/2	1	L
KAI/bd102/15	Physics	4	2/2	1	L
KBIO/bd202/15	Biology II	4	2/0	1	L
KBT/bd006/15	Laboratory Practice in Biology II	3	0/3	1	L
KBT/bd003/15	Biotechnology Information	3	0/2	1	L
KOJP/bd202/15	English for Science II	3	0/2	1	L
KCH/bd305/15	Organic Chemistry I	4	3/2	2	Z
KCH/bd306/15	Physical Chemistry I	4	2/2	2	Z
KCH/bd307/15	Laboratory Practice in Organic and Physical Chemistry I	3	0/4	2	Z
KBIO/bd203/15	Microbiology	4	2/0	2	Z
KBT/bd007/15	Laboratory Practice in Microbiology	3	0/5	2	Z
KBIO/bd204/15	Fundamentals of Genetics	4	2/1	2	Z
KOJP/bd203/15	English for Science III	4	0/2	2	Z
KBIO/bd205/15	Molecular Biology	4	2/2	2	L
KCH/bd308/15	Organic Chemistry II	3	3/2	2	L
KCH/bd309/15	Physical Chemistry II	4	2/1	2	L
KCH/bd310/15	Analytical Chemistry I	4	2/2	2	L
KCH/bd311/15	Laboratory Practice in Analytical Chemistry I	3	0/4	2	L
KBT/bd001/15	Biochemistry I	4	3/0	2	L
KBIO/bd206/15	Microbial Biotechnologies	4	2/0	2	L
KOJP/bd204/15	English for Science IV	2	0/2	2	L
KCH/bd313/15	Analytical Chemistry II	4	2/2	3	Z
KCH/bd314/15	Laboratory Practice in Analytical Chemistry II	3	0/4	3	Z
KBT/bd002/15	Laboratory Practice in Biochemistry I	3	0/5	3	Z
KBIO/bd207/15	Gene Manipulations	4	2/0	3	Z
KBT/bd008/15	Biotechnological Processes and Equipment	3	2/0	3	Z
KBT/bd004/15	Enzymology	4	2/0	3	Z
KBT/bd009/15	Laboratory Practice in Biotechnologies I	3	0/5	3	Z
KBT/bd013/15	Bachelor Project I	3	0/3	3	Z
KBT/bd010/15	Enzyme Biotechnologies	2	2/0	3	L
KBT/bd011/15	Animal Biotechnology	2	2/0	3	L
KBT/bd012/15	Plant Biotechnologies	2	2/0	3	L
KBIO/bd210/15	Bioinformatics	2	0/2	3	L
KBT/bd014/15	Bachelor Project II	5	0/10	3	L
KBT/bd015/15	Laboratory Practice in Biotechnologies II	3	0/5	3	L
KBT/bd800/15	Bachelor Thesis Defence	12		3	L

Compulsory Elective subjects					
Abbr.	Name	Credit	Scope	Year	Sem.
KBT/bd017/15	Material and Energy Balances	2	2/0	1	L
KER/bd202/15	Fundamentals of Environmental Science	2	2/0	1	L
KBT/bd019/15	Biophysics	4	2/0	2	Z
KER/bd203/15	Ecology	4	2/0	2	Z
KER/bd200/15	Toxicology	4	2/0	2	Z
KCH/bd312/15	Evaluation of Experimental Data	2	2/0	2	L
KBIO/bd212/15	Fundamentals of Virology	2	2/0	2	L
KER/bd201/15	Renewable Energy Resources	2	2/0	2	L
KBIO/bd208/15	Plant Physiology and Biochemistry	3	2/0	3	Z
KBIO/bd209/15	Molecular Biology Databases	3	0/2	3	Z
KAI/bd107/15	Fundamentals of Marketing	3	2/0	3	Z
KBIO/bd213/15	Food Quality and Nutrition	2	2/0	3	L
KBT/bd024/15	Biotechnological Entrepreneurship	2	2/0	3	L
Selective subjects					
Abbr.	Name	Credit	Scope	Year	Sem.
KAI/bd103/15	Seminar in Mathematical Calculations I	2	2/0	1	Z
KBIO/bd47/15	Sports Activities I	2	0/2	1	Z
KCH/bd315/15	Perspectives of Chemistry and Chemistry Legislation	2	2/0	1	Z
KAI/bd104/15	Seminar in Mathematical Calculations II	2	0/2	1	L
KBIO/bd211/15	Bioethics	2	1/0	1	L
KBIO/bd48/15	Sports Activities II	2	0/2	1	L
KBIO/bd49/15	Sports Activities III	2	0/2	2	Z
KCH/bd317/15	Seminar in Physical Chemistry Calculations I	2	0/2	2	Z
KAI/bd106/15	Fundamentals of Management	3	2/0	2	L
KCH/bd318/15	Seminar in Physical Chemistry Calculations II	2	0/2	2	L
KBIO/bd50/15	Sports Activities IV	2	0/2	2	L
KBIO/bd51/15	Sports Activities V	2	0/2	3	Z
KOJP/bd205/15	Professional Communication in English Language I	2	0/2	3	Z
KBIO/bd52/15	Sports Activities VI	2	0/2	3	L
KOJP/bd206/15	Professional Communication in English Language II	2	0/2	3	Z