

Biotechnology

International Master's Programme (M. Sc.) – Regular Duration: 4 Semesters

	Cell Biology	Microbiology	Bioanalytics	Laboratory Diagnostics
1. Semester Winter	Introduction to Scientific Work 12740 6 CP			
	Research Internship 12739 24 CP			
2. Semester Summer	Cells and Tissues – Culture and Evaluation 12771 8 CP	Methods in Synthetic Microbiology 12777 8 CP	Methods in Nanobiotechnology 12792 8 CP	Methods in Laboratory Diagnostics 12797 8 CP
	Bioengineering of Animal/Human Cells 12772 8 CP	Eukaryotic Micro-organisms/Microalgae 12776 8 CP	Purification and Characterisation of Proteins 12793 8 CP	Methods in Bioanalytics 12798 8 CP
	Molecular Dynamics of the Cell 12175 5 CP	Synthetic Microbiology 12764 5 CP	Proteostasis 11858 5 CP	Introduction to Laboratory Diagnostics 12768 5 CP
	Tissue Engineering 11825 5 CP	Compulsory Elective Module 5 CP	Compulsory Elective Module 5 CP	Compulsory Elective Module 5 CP
	Compulsory Elective Module 5 CP	Compulsory Elective Module 5 CP	Compulsory Elective Module 5 CP	Compulsory Elective Module 5 CP
3. Semester Winter	Genetic Engineering of Eukaryotic Cells 12773 8 CP	Metabolic Analysis and Engineering 12791 8 CP	Methods in Enzyme Technology 12794 8 CP	Molecular Biology: Principles, Methods and Applications 12799 8 CP
	Molecular Biotechnology and Society 14156 5 CP	Microbial Metabolism 12800 5 CP	Nanobiotechnology 12765 5 CP	Point of Care Diagnostic 12767 5 CP
	Compulsory Elective Module 5 CP	Enzyme Technology 12763 5 CP	Compulsory Elective Module 5 CP	Immunology 11795 5 CP
	Compulsory Elective Module 5 CP	Compulsory Elective Module 5 CP	Compulsory Elective Module 5 CP	Compulsory Elective Module 5 CP
	General Studies 6 CP	General Studies 6 CP	General Studies 6 CP	General Studies 6 CP
4. Semester Summer	Master Thesis 12770 30 CP	Master Thesis 12770 30 CP	Master Thesis 12770 30 CP	Master Thesis 12770 30 CP
M	120 ECTS Credit Points	120 ECTS Credit Points	120 ECTS Credit Points	120 ECTS Credit Points

Five-digit Codes: Module Numbers

Lab Courses

→ Mandatory Prerequisites