

Biotechnology

International Master's Programme (M. Sc.) – Regular Duration: 3 Semesters

	Cell Biology	Microbiology	Bioanalytics	Laboratory Diagnostics
1. 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 Microorganisms/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
2. 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
3. Semester Summer	Master Thesis 12770 30 CP	Master Thesis 12770 30 CP	Master Thesis 12770 30 CP	Master Thesis 12770 30 CP
M	90 ECTS Credit Points	90 ECTS Credit Points	90 ECTS Credit Points	90 ECTS Credit Points

Five-digit Codes: Module Numbers

 Lab Courses

 Mandatory Prerequisites