

Module catalogue master's course Chemical Biotechnology

Semester 1	Semester 2	Semester 3	Semester 4
Applied Microbiology and Metabolic Engineering (5 CP)	Advanced scientific planning based on current research topics at TUM (5 CP)	Technical Electives (total of 25 CP)	Master's Thesis (30 CP)
Enzymatic Biotransformations (5 CP)	Technical Electives (total of 25 CP)		
Conceptual Design of Bioprocesses (5 CP)		Interdisciplinary Electives (total of 5 CP)	
Technical Electives (total of 15 CP)			
90 CP			30 CP

Technical Electives
Micro & Molecular Biology Enzyme Engineering, Regulation of Microbial Metabolism, Plant Biotechnology, Advances in Metabolic Engineering

Technical Electives
Chemistry Sustainable Chemistry, Advanced Electrochemistry, Production of Renewable Fuels, Renewables Utilization

Technical Electives
Process engineering Biorefinery, Conceptual Process Design, Applied Process Engineering

Technical Electives
Specializations Electrobiotechnology, Artificial Intelligence of Biotechnology, Biological Materials in Nature and Technology, Polymer Processing, Research Internship Master Chemical Biotechnology

Interdisciplinary Electives Angewandte Ethik zu Nachwachsenden Rohstoffen, Arbeitswissenschaft und Arbeitssicherheit, Beratung und Kommunikation, Corporate Sustainability Management, English, Führungspsychologie, Heil- und Gewürzpflanzen, Renewable Resources at Schools, Rhetoric and Dialectic, Social Media Marketing, Spanish