## **Course of Study Bioprocess Engineering (Study Cohort w18)** Core qualification

Sample course plan B Master Bioprocess Engineering (BVTMS) Sr

Specia	lisation B - Industrial Bioprocess Engineerir	ng					Core qualification Elective Compulsory	Specialisation E Compulsory	lective	Focus Elective Compulsory	Interdisciplinary complement
LP	Semester 1	Form Hrs/w	kSemester 2	Form H	lrs/w	kSemester 3		Form Hrs/w	kSemest	er 4	Form Hrs/wk
1 2 3 4 5 6	Transport Processes Heat & Mass Transfer in Process Engineering Multiphase Flows Reactor Design Using Local Transport Processes	VL 2 VL 2 PBL 2	Advanced Chemical Reaction Engineer Chemical Reaction Engineering Chemical Reaction Engineering Experimental Course Chemical Engineering	VL HÜ	2 2 2	<b>Process Design</b> Process Design Pr		РК б	Master	' Thesis	
7 8 9 10 11 12	Process and Plant Engineering II Process and Plant Engineering II Process and Plant Engineering II Process and Plant Engineering II	VL 2 HÜ 1 UE 1	<b>Bioprocess and Biosystems Engineer</b> Bioreactor Design and Operation Biosystems Engineering Bioreactors and Biosystems Engineering	VL	2 2 1	Bioprocess Engine Course Advanced Practic Microbiology Bioprocess Engine Practical Course		ractical PR 3 PR 3			
13 14 15 16 17 18	Separation Technologies for Life Science Chromatographic Separation Processes Unit Operations for Bio-Related Systems Unit Operations for Bio-Related Systems	VL 2 VL 2	Technical Microbiology Applied Molecular Biology Technical Microbiology Technical Microbiology		2 2 1	Synthesis and De Facilities	<b>Design of Industrial F</b> sign of Industrial esign and Economics	Processes VL 1 PBL 3			
19 20 21 22 23 24	<b>Biocatalysis</b> Technical Biocatalysis Biocatalysis and Enzyme Technology	VL 2 VL 2	<b>Cell and Tissue Engineering</b> Fundamentals of Cell and Tissue Engineering Bioprocess Engineering for Medical Applications	VL VL	2	Biotechnical Proce	pioprocess engineering	PBL 2 SE 2			
25 26 27 28 29 30							process Engineering ocess Engineering	PR 6			
	Business & Management (from catalogue) - 6LP Nontechnical Elective Complementary Courses for Master (from catalogue) - 6LP										

Specialisation Compulsory Focus Compulsory

Thesis Compulsory

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.