

**Curriculum Pharmaceutical Bioprocess Engineering**

Semester	Modules								Credits/ Exams
1.	LS30040 Introduction to Bioprocess Engineering (GOP)  K 5 CP	MA9615 Calculus (GOP)  (5 CP)	PH9035 Physik für Life-Science-Ingenieure 1 (GOP)  K + LL (SL) 7 CP	LS30037 Cell Biology  K 5 CP	WZ5322 General and Inorganic Experimental Chemistry with Lab (GOP)  K (4 CP)	LS30041 Seminar on Good Scientific Practice  LP 4 CP			6 30
2.	LS30038 Economics for Life Science Engineering  K 5 CP		PH9036 Physics for Life Science Engineers 2  K 5 CP	WZ5426 Organic and Biological Chemistry  (3 CP)		WZ5442 Applied Mechanics  (2 CP)	WZ5047 Energetic Use of Biomass  K 5 CP	WZ5005 Materials Engineering  K 5 CP	6 30
3.	LS30045 Bioprocess Engineering  K 5 CP	WZ5299 Statistics  K 5 CP	LS30001 Introduction to Microbiology  (2 CP)				WZ5196 Intellectual Property Law  K 5 CP		6 29
Mobility Window	LS30032 Pharmaceutical Technology  K 5 CP			LS30047 Biochemistry 2 and Metabolism  K 5 CP		WZ5013 Fluid Mechanics  K 5 CP	LS30048 B.Sc. Lemi BrauBPT - Industrial Internship  B (SL) 8 CP	WZ5010 Analytics of Biomolecules  K 5 CP	7 31
5.	LS30030 Drug Production  K + LL (SL) 5 CP	LS30039 Packaging Technology  K 5 CP		WZ5414 Molecular Biotechnology  K 5 CP		LS30036 Thermodynamics  K 5 CP	LS30027 Energy monitoring  K 5 CP	WZ5063 Basics in Programming  ÜL (SL) 6 CP	7 31
6.	LS30044 Bachelor's Thesis  W 12 CP	CLA30258 Jazzproject  ÜL 3 CP	CLA21023 Passing Exams in Relaxed Mode  B 2 CP			LS30035 Hygienic Processing  K 6 CP		WZ5435 Ing.wissen-Machine and Plant Engineering K 6 CP	5 29
Key	Dark Blue = Mandatory Bachelor's Thesis Light Blue = Elective Modules Grey = Mandatory Modules Green = Basic and Orientation Exams (GOP) Orange = General Education Subject				PR = Practical course; CP = Credit Points; SL = coursework; K = written exam ; M = oral exam; LL = lab work; ÜL = exercise work; W = scientific research paper LP = learning portfolio; B = report				