Overview: Fields and Modules

Field	Module	Responsible	CP
Core Skills 2 mandatory modules	Process and Plant Design in Biotechnology	Holtmann	6
	Thermodynamics for Bioengineering	Enders, Zeiner	6
Interdisciplinary Qualifications (Soft Skills)	Academic Work (z. B. Journal Club)	Holtmann, Grünberger	2
	e. g. offers of the House of Competence of FORUM		2
Computer-aided Methods	In the fields <u>Computer-aided Methods</u> and <u>Process Engineering</u>, 6 – 16 CP can be selected in each field, for a total of 22 CP. If 22 CP cannot be achieved exactly due to the CP scope of the individual modules, the 22 CP may be slightly exceeded.		22
Process Engineeing			
Specialization	Two to four specializations can be chosen, each with a scope of 10–20 CP, for a total of 40 CP. If 40 LP cannot be achieved due to the scope of the individual modules, the 40 CP may be Slightly exceeded.		40
Internship	12 weeks of professional internship (industry) or research internship (KIT, other research institution). The research internship can be completed at KIT either as a block internship or part-time throughout the semester.		12
Thesis			30

The following specializations are electable:

- Biopharmaceutical Process Engineering
- Health Technology
- Industrial Biotechnology
- Design of Food Products
- Food Process Engineering
- Micro-Bioprocess Engineering
- New Bio-Production Systems - Electro-Biotechnology
- Conversion of Renewable Resources
- Water Technology

Curriculum - Example

1. Sem	Core skills 6 CP	Soft Skills 2 CP	CM 6 CP	Specialization 1 6 CP	Specialization 1 6 CP	Specialization 2 4 CP
2. Sem	Core Skills 6 CP	Soft Skills 2 CP	Process Eng. 4 CP	Process Eng. 6 CP	Specialization 3 6 CP	Specialization 2 4 CP
3. Sem	Research Internship (throughout semester) 12 CP		CM 6 CP	Specialization 3 4 CP	Specialization 3 4 CP	Specialization 2 6 CP
4. Sem	Thesis 30 CP					

- Computer-aided Methods (CM): 12 CP
- Process Engineering: 10 CP
- Specialization 1: 12 CP
- Specialization 2: 14 CP
- Specialization 3: 14 CP