

Curriculum International Computer Science B.Sc.

| Semester | ECTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Sum ECTS |
|----------|-------------------------------------|---|---|---|---|---|-----------------------------|---|--|----|------------------|----|---|----|-----------------------|----|---|----|-------------------------|----|-------------------------------|----|----|----|-------------------------------|----|--------|----|--------|----|----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| 1 | Mathematics 1 | | | | | | Programming 1 | | | | | | Automata, Formal Languages, and Computation | | | | | | Business Administration | | | | | | Language Track 1 A or B *) | | | | | | 30 |
| 2 | Mathematics 2 | | | | | | Programming 2 | | | | | | Computer Systems | | | | | | Networking | | | | | | Language Track 2 A or B *) | | | | | | 30 |
| 3 | Databases | | | | | | Global Software Engineering | | | | | | Operating Systems | | | | | | Statistics | | | | | | Language Track 3 A or B *) | | | | | | 30 |
| 4 | Web Technology Project | | | | Software for the Global Market | | | | Algorithms and Data Structures | | | | | | Computer Architecture | | | | | | Language Track 4 A or B *) | | | | | | 30 | | | | |
| 5 | Industrial Placement + Seminar | | | | | | | | | | | | | | | | | | | | | | | | | | AWPM 1 | | AWPM 2 | | 30 |
| 6 | Core Module 1 Scientific Seminar | | | | Core Module 2 Int. Software Development *) | | | | Core Module 3 Information Security *) | | | | Core Module 4 Big Data Technology *) | | | | FWPM 1 | | | | FWPM 2 | | | | 30 | | | | | | |
| 7 | Bachelor Thesis | | | | | | | | | | Bachelor Seminar | | Core Module 5 Advanced Algorithms *) | | | | Core Module 6 Stochastic Algorithms *) | | | | FWPM 3 | | | | 30 | | | | | | |

***) Core Modules 2 - 6:**

The designated course modules are intended to provide an orientation to the planned course offerings in the 3rd stage of study. The list of course modules mentioned can still be adapted or extended at any time within the program growth.

***) Language Track 1 - 4:**

Track A: German

Track B: Spanish