

Study Plan Guide - BSc. in Computer Science – Dual Study Track 2021/2022

First Year		
First semester Courses (17 CH)	Second Semester Courses (17 CH)	Summer Semester Courses (6 CH)
English III - ENGL101 (1CH) German I – GERL101 (3CH) Computing Fundamentals – CS116 (3CH) Comp. Fund. Lab – CS1160 (1 CH) Discrete Structures – CS201 (3CH) Arabic – ARB100 (3CH) Calculus I – MATH101 (3CH)	German II – GERL102 (3CH) Data Structures – CS223 (3CH) Theory of Algorithms –CS222 (3CH) Object-Oriented Programming – CS214 (3CH) Object-Oriented Programming Lab – CS2140 (1CH) Calculus II – MATH102 (3CH) English IV - ENGL102 (1CH)	Database Management Systems - CS363 (3CH) Dual Studies Practical course I – DS101 (3CH) Practical training in company

Second Year		
First Semester Courses (18 CH)	Second Semester Courses (18CH)	Summer Semester Courses (6 CH)
English V – ENGL201 (2CH) German III – GERL201 (3CH) Visual Programming – CS254 (3CH) Systems Programming – CS416 (3CH) Digital Systems – CE212 (3CH) Digital Systems Lab – CE2120 (1CH) Linear Algebra – ECE317 (3CH)	German IV – GERL202 (3 CH) Computer Architecture and Organization – CE201(3 CH) Military Sciences – MILS100 (3CH) Software Engineering – CS342 (3CH) Artificial Intelligence – CS451(3CH) Probability and Statistics – IE211 (3CH)	Web Technologies - CS355 (3CH) Dual Studies Practical course II – DS201 (3CH) Practical training in company

Third Year		
First Semester Courses (19 CH)	Second Semester Courses (17 CH)	Summer Semester Courses (3 CH)
German V – GERL301 (3CH) Computational Theory – CS323 (3CH) Computer Networks – CE352 (3CH) Compiler Construction – CS419 (3CH) Computer Graphics – CS332 (3CH) Operating Systems – CE357 (3CH) Operating Systems Lab – CE3570 (1CH)	German VI – GERL302 (3CH) Information Security – CS356 (3CH) National Education – NE101 (3CH) English VI – ENGL202 (2CH) Mobile Computing – CS477 (3CH) Image Understanding – CS330 (3CH)	Senior Project – CS492 (3 CH) Field Training – CS391 (0 CH) Practical training in company

Fourth Year (in Germany)	
First Semester Courses (12 CH)	Second Semester Courses (12 CH)
4 Elective Courses at German Partner University (12CH)	International Industry Internship – 20 weeks in German Company- CS491(12 CH)