

Study Plan Guide – BSc. In Industrial Engineering – Dual Study Program

First Year		
First Semester Courses (17 CH)	Second Semester Courses (16 CH)	Summer Semester Courses (5 CH)
PHYS103 Physics I CHEM103 General Chemistry CS116 Computing Fundamentals CS1160 Computing Fundamentals Lab ENGL101 English III GERL101B1 German I MATH101 Calculus I	IE0111 Introduction to IE IE0121 Probability and Statistics IE0141 Engineering Workshop ENGL102 English IV GERL102B1 German II B1 track GERL102B2 German II B2 track MATH102 Calculus II PHYS104 Physics II PHYS106 General Physics Lab	ME0111-DS Computer Aided Engineering Drawing DS101 Dual Studies Practical I

Second Year		
First Semester Courses (19 CH)	Second Semester Courses (17 CH)	Summer Semester Courses (5 CH)
IE0222 Computer Aided MATH For IE IE0223 Applied Statistics IE0242 Materials Science and engineering MECH0216 Statics and strength of materials ENGL201 English V GERL201 German III MATH203 Applied Math for Engineers	IE0231 Operations Research IE0232 Operations Research Lab IE0243 Materials science and engineering Lab IE0251 Work Measurements and Standards IE0252 Work Measurements and Standards Lab ME0212 Electrical Circuits and Machines GERL202 German IV MATH205 Differential Equations	IE0281-DS Technical Writing and Engineering Ethics DS201 Dual Study Practical II

Third Year		
First Semester Courses (18 CH)	Second Semester Courses (16 CH)	Summer Semester Courses (3 CH)
IE0312 Simulation IE0313 Simulation Lab IE0324 Quality Engineering IE0325 Quality Engineering Lab ME0346 Instrumentation and Measurements ME0347 Instrumentation and Measurements Lab MILS100 Military Science ENGL202 English VI GERL301 German V	IE0314 Production Planning IE0344 Manufacturing Processes IE0345 Manufacturing Processes Lab IE0353 Ergonomics IE0354 Ergonomics Lab GERL302 German VI NE101 National Education NEE101 National Education (English)	IE0361-DS Engineering Economics DS301 Dual Studies Practical III

Fourth Year (in Germany)	
First Semester Courses (15 CH)	Second Semester Courses (12 CH)
IE0533 Supply Chain Engineering Four elective courses at German Partner University	IE0483 International Internship ¹

Fifth Year	
First Semester Courses (13 CH)	Second Semester Courses (13 CH)
IE0516 Facility and Asset Management IE0562 Industrial Cost Analysis IE0584 Graduation Project I ME0577 Automation and Industry 4.0 ME0578 Automation and Industry 4.0 Lab ARB100 Arabic	IE0515 Product Development and Entrepreneurship IE0526 Data Analytics for Industrial Engineering IE0546 Modern Manufacturing Technology IE0547 Modern Manufacturing Technology Lab IE0585 Graduation Project II IE0586 Industrial Systems Integration Capstone Project

¹ Courses attended and/or passed during International Internship are not transferable