

**Study plan Guide (for students accepted in 2020/2021 academic year) – BSc in Industrial Engineering –
Dual Study Track**

First Year		
First semester Courses (18 CH)	Second Semester Courses (17 CH)	Summer Semester Courses (6 CH)
IE0141 Engineering Workshop CHEM103 General Chemistry CS116 Computing Fundamentals CS1160 Computing Fundamentals Lab ENGL101 English III GERL101 German I MATH101 Calculus I PHYS103 Physics I	IE0121 Probability and Statistics ENGL102 English IV GERL102 German II MATH102 Calculus II NE101 National Education PHYS104 Physics II PHYS106 General Physics Lab	ME0111 Computer Aided Engineering Drawing SFTS101 Soft Skills (University elective) IE0111 Introduction to IE

Second Year		
First Semester Courses (16 CH)	Second Semester Courses (17 CH)	Summer Semester Courses (5 CH)
IE0222 Computer Aided MATH For IE IE0242 Materials Science and engineering MECH0216 Statics and strength of materials ENGL201 English V GERL201 German III MATH203 Applied Math for Engineers	IE0223 Applied Statistics IE0231 Operations Research IE0232 Operations Research Lab IE0243 Materials science and engineering Lab GERL202 German IV MATH205 Differential Equations ME0212 Electrical Circuits and Machines	IE0251 Work Measurements and Standards IE0252 Work Measurements and Standards Lab IE0281 Technical Writing and Engineering Ethics IE0382 Field Training

Third Year		
First Semester Courses (15 CH)	Second Semester Courses (16 CH)	Summer Semester Courses (6 CH)
IE0312 Simulation IE0313 Simulation Lab ME0346 Instrumentation and Measurements ME0347 Instrumentation and Measurements Lab ARB100 Arabic GERL301 German V MILS100 Military science	IE0344 Manufacturing Processes IE0345 Manufacturing Processes Lab. IE0353 Ergonomics IE0354 Ergonomics Lab. IE0324 Quality Engineering IE0325 Quality Engineering Lab GERL302 German VI ENGL202 English VI	IE0314 Production Planning IE0361 Engineering Economics

Fourth Year (in Germany)	
First Semester Courses (12 CH)	Second Semester Courses (12 CH)
Four elective courses at German Partner University	IE0483 International Internship

Fifth Year	
First Semester Courses (16 CH)	Second Semester Courses (13 CH)
IE0516 Facility and Asset Management IE0533 Supply Chain Engineering IE0562 Industrial Cost Analysis IE0584 Graduation Project I ME0577 Automation and Industry 4.0 ME0578 Automation and Industry 4.0 Lab University Elective	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

Approved by IE Department (December 2nd 2020)