

## Study plan Guide – BSc in Industrial Engineering – Dual Study Track(2019/2020)

<b>First Year</b>		
<b>First semester Courses (18 CH)</b>	<b>Second Semester Courses (17 CH)</b>	<b>Summer Semester Courses (6 CH)</b>
IE121 Workshop ARB100 Arabic ENGL101 English III CS116 Computing Fundamentals CS1160 Computing Fundamentals Lab GERL101 German I MATH101 Calculus I PHYS103 Physics I	ENGL102 English IV GERL102 German II MATH102 Calculus II MILS100 Military Science NE101 National Education PHYS104 Physics II PHYS106 General Physics Lab	ME111 Computer Aided Engineering Drawing ME1110 Computer Aided Engineering Drawing Lab SFTS101 Soft Skills (University elective)

<b>Second Year</b>		
<b>First Semester Courses (20 CH)</b>	<b>Second Semester Courses (16 CH)</b>	<b>Summer Semester Courses (6 CH)</b>
IE211 Probability and Statistics IE223 Materials Science ME211 Statics and Dynamics ENE211 Electrical Circuits I ENGL201 English V GERL201 German III MATH203 Applied Mathematics for Engineers	IE212 Applied Statistics IE224 Materials and Mechanics Lab TME213 Mechanics of Materials ENGL202 English VI ENE213 Electrical Circuits Lab GERL202 German IV MATH205 Differential Equations	IE261 Work Measurement and Standards IE2610 Work Measurement and Standards Lab IE371 Engineering Economics IE391 Field Training

<b>Third Year</b>		
<b>First Semester Courses (17 CH)</b>	<b>Second Semester Courses (16 CH)</b>	<b>Summer Semester Courses (6 CH)</b>
IE325 Manufacturing Processes IE3250 Manufacturing Processes Lab IE3315 Operations Research IE33150 Operations Research Lab BM371 Numerical Methods for Engineers BM3710 Numerical Methods for Engineers Lab ME223 Thermofluids GERL301 German V	IE326 Elements of Machine Design IE381 Simulation IE3810 Simulation Lab IE382 Engineering Marketing ME323 Thermofluids Lab ME346 Instrumentation and Measurements ME347 Instrumentation and Measurements Lab GERL302 German VI	IE312 Quality Control IE332 Production Planning and Inventory Control

<b>Fourth Year (in Germany)</b>	
<b>First Semester Courses (12 CH)</b>	<b>Second Semester Courses (12 CH)</b>
Four elective courses at German Partner University	IE491 International Internship

<b>Fifth Year</b>	
<b>First Semester Courses (16 CH)</b>	<b>Second Semester Courses (17 CH)</b>
IE562 Ergonomics IE5620 Ergonomics Lab ME534 Electrical Machines and Control IE591 Graduation Project I ME343 Automatic Control Systems ME3430 Automatic Control Systems Lab University Elective	IE541 Industrial Automation IE5410 Industrial Automation Lab IE582 Facilities Layout IE583 Supply Chain Management IE592 Graduation Project II ME535 Electrical Machines and Control Lab MGT525 Project Management