### International Study Program Curriculum
Courses Taught in English at the DHBW Ravensburg - Academic Year 2023/2024

## Engineering - Course Offer 2023/2024

**Core Courses/Lectures, Campus Friedrichshafen**

<table>
<thead>
<tr>
<th>Field of Study</th>
<th>Fall (Oct – Dec 2023) (ECTS)</th>
<th>Winter (Jan – Mar 2024) (ECTS)</th>
<th>Spring (Apr- Jun 2024) (ECTS)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Electrical Engineering</strong></td>
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<tr>
<td>Mobile Communications (3)</td>
<td></td>
<td>Industrial Bus Systems (2)</td>
<td>Visualization and Optimization (5)</td>
</tr>
<tr>
<td>High-Frequency Technology incl. Communication Technology Lab (5)</td>
<td>Control Technology (5)</td>
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<tr>
<td>Systems Theory (5)</td>
<td></td>
<td>Electronics (2.5)</td>
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<tr>
<td>Introduction to Robotics (3) (ab Oct. 2024)</td>
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<tr>
<td><strong>Mechanical Engineering</strong></td>
<td>Engineering Design &amp; Development (3-5)</td>
<td>Engineering of Lightweight Structures (5)</td>
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<td>Quality Management (3-5)</td>
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<tr>
<td>Finite Elements (3)</td>
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<tr>
<td><strong>Informatics</strong></td>
<td>Mobile Sensors and Actuators, (2.5)</td>
<td>Operating Systems, (2.5)</td>
<td>Network Architectures and Management (3)</td>
</tr>
<tr>
<td>Artificial Intelligence 1 (2.5)</td>
<td></td>
<td></td>
<td>Artificial Intelligence 2 (2.5)</td>
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<tr>
<td>Database Applications (?) (2.5)</td>
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<tr>
<td>Field of Study</td>
<td>Fall (Oct – Dec 2023) (ECTS)</td>
<td>Winter (Jan – Mar 2024) (ECTS)</td>
<td>Spring (Apr- Jun 2024) (ECTS)</td>
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<tr>
<td>Aerospace Engineering</td>
<td>Flight Dynamics 2 (3.5)*</td>
<td>Flight Dynamics 1 (3.5)*</td>
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<tr>
<td></td>
<td></td>
<td>Simulation Technology 1 (1.5)</td>
<td>Simulation Technology 2 (1.5)</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>Industry 4.0 / Smart Factory (2.5)</td>
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<td>Industry 4.0 Digitalization / Blockchain Technology (2.5)</td>
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<td>Digital Transformation (2.5)</td>
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<td></td>
<td>Production and Logistics (5)</td>
<td></td>
<td>International Marketing (2.5)</td>
</tr>
<tr>
<td>Embedded Systems</td>
<td>Automotive Software Engineering</td>
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<tr>
<td></td>
<td>Aerospace Software Engineering</td>
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</tbody>
</table>

* Note: Lecture series (Flight Dynamics 1 und Flight Dynamics 2) starts with Flight Dynamics 1 in Jan for 4th semester students and continues in Oct with Flight Dynamics 2 for 5th semester students.
Engineering Projects, Campus Friedrichshafen
(Study Projects, Self-Directed Projects, Bachelor Thesis, Master Thesis)

The Department of Engineering offers opportunities for the following study modules:

- Student Research Project (3 months fulltime or 6 months part-time) with 10 credits
- Bachelor Thesis (3 months fulltime) with 12 credits
- Master Thesis (6 months fulltime) with 25 credits

The projects can be carried out at any time in the period from October to June. The respective subjects (project contents) can be selected from current topics, see below. Prior detailed agreement with the supervisor is necessary!

<table>
<thead>
<tr>
<th>Field of Study</th>
<th>Study Modules</th>
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<tbody>
<tr>
<td>Electrical Engineering</td>
<td>High-Frequency Technology and/or Electro Magnetic Compatibility</td>
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<tr>
<td></td>
<td>Racing Car Development (GFR Team)</td>
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<tr>
<td></td>
<td>Autonomous/Connected Vehicles</td>
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<tr>
<td>Mechanical Engineering</td>
<td>Lightweight Construction</td>
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<tr>
<td></td>
<td>Industrial Measurement and Sensor Technology</td>
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<tr>
<td>Informatics</td>
<td>Offensive Security</td>
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<tr>
<td>Aerospace Engineering</td>
<td>Flight Simulation</td>
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<td></td>
<td>Flight Control/Handling Qualities</td>
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<td></td>
<td>Aerodynamics/CFD</td>
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<td>Drivetrains for Aircraft and Engines</td>
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<td></td>
<td>UAV/Lighter-than-air</td>
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<tr>
<td>Industrial Engineering</td>
<td>Electro mobility: Project “eMule 5.0”</td>
</tr>
</tbody>
</table>
International Study Program Curriculum
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Elective Courses, Campus Ravensburg
Additional Course of the International Business Department and the International Study Program.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Marketing</td>
<td>Marketing (International Business) (2)</td>
<td>Marketing (International Business) (2)</td>
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<tr>
<td>Branch Specific Management</td>
<td>Current Data Science-Developments: Intelligent Text Analysis (2)</td>
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<tr>
<td>Intercultural Management</td>
<td>Cultural Aspects of Germany (2)</td>
<td>Cultural Aspects of Germany (2)</td>
<td>Cultural Aspects of Germany (2)</td>
</tr>
<tr>
<td></td>
<td>Leadership, Ethics and Sustainability (3)</td>
<td>Leadership, Ethics and Sustainability (3)</td>
<td>Intercultural Management in Selected Operational Areas (3)</td>
</tr>
</tbody>
</table>

Language Courses, Campus Friedrichshafen

|----------------------------|-----------------------------------------------------------|-------------------------------|-------------------------------|

Language Courses, Campus Ravensburg
All our language courses take place in the early evening, but please note that we are not a linguistic university. For example, the German course is principally intended as a form of intercultural class.

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<tr>
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<tbody>
<tr>
<td>Language</td>
<td>German for beginners (2)</td>
<td>German for beginners (2)</td>
<td>German for beginners (2)</td>
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<tr>
<td></td>
<td>Business English (2)</td>
<td>Business English (2)</td>
<td>Business English (2)</td>
</tr>
<tr>
<td></td>
<td>English for Presentations (2)</td>
<td>English for Presentations (2)</td>
<td>English for Presentations (2)</td>
</tr>
<tr>
<td></td>
<td>Spanish (2)*</td>
<td>Spanish (2)*</td>
<td>Spanish (2)*</td>
</tr>
</tbody>
</table>

* Please note; the language of instruction on the Spanish course is German