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<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Semester 3</th>
<th>Semester 4</th>
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<td>Fundamentals of Mechanical Engineering Design (GES) VL 2</td>
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**Legend:**
- **Core qualification Compulsory**
- **Specialisation Compulsory**
- **Focus Compulsory**
- **Thesis Compulsory**
- **Core qualification Elective Compulsory**
- **Focus Elective Compulsory**
- **Interdisciplinary complement**

**Course of Study General Engineering Science (English program, 7 semester) (GESBS(7))**

**Sample course plan M Bachelor General Engineering Science (English program, 7 semester) (GESBS(7))**

**Specialisation Computer Science**

**Cohort w19**

**Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w19)**

**Semester 1**
- Chemistry (GES)
- Linear Algebra
- Electrical Engineering I
- Mechanics I (GES)
- Programming in C

**Semester 2**
- Technical Thermodynamics I
- Mathematical Analysis
- Electrical Engineering II
- Mechanics II (GES)
- Fundamentals of Mechanical Engineering Design (GES)

**Semester 3**
- Technical Thermodynamics II
- Mathematical Analysis
- Electrical Engineering II
- Mechanics II (GES)
- Fundamentals of Mechanical Engineering Design (GES)

**Semester 4**
- Technical Thermodynamics II
- Mathematics III
- Electrical Engineering II
- Mechanics III
- Fundamentals of Mechanical Engineering Design (GES)

**Semester 5**
- Object-oriented Programming, Algorithms and Data Structures
- Signals and Systems
- Stochastics
- Graph Theory and Optimization
- Automata Theory and Formal Languages

**Semester 6**
- Introduction to Control Systems
- Numerical Mathematics I
- Seminars Computer Science and Mathematics
- Functional Programming
- Mathematical Statistics

**Semester 7**
- Foundations of Management
- Computation and Complexity Theory
- Software Engineering
- Bachelor Thesis
<table>
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<td>Discrete Algebraic Structures</td>
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The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.