

# Master IT Engineering - IT Systems and Security

Start Winter semester

| Semester 1   | Semester 2                                       | Semester 3   |
|--|--|--|
| <b>AI &amp; Optimization for Industrial Applications</b><br>X 5 ECTS   | <b>Industrial Internet of Things</b><br>X 5 ECTS | <b>Masterthesis &amp; Colloquium</b><br>X 30 ECTS                  |
| <b>Medical Engineering</b><br>X 5 ECTS   | <b>IT Project</b><br>I 5 ECTS                    |  |
| <b>Embedded Systems Workshop</b><br>X 5 ECTS   | <b>Workshop Cryptography</b><br>I 5 ECTS         |  |
| <b>IT Seminar</b><br>I 5 ECTS  | <b>Security Engineering</b><br>I 5 ECTS          |  |
| <b>Distributed Systems</b><br>I 5 ECTS   | <b>Algorithmics</b><br>I 5 ECTS                  |  |
| <b>Choice (1 out of 2)</b><br>Security Management<br>Communication Systems &<br>Reconfigurable Computing<br>V 5 ECTS | <b>Robotics</b><br>T 5 ECTS                      |  |
| <b>I</b> COMPUTER SCIENCE<br><b>X</b> INTEGRATIVE COURSE   | <b>T</b> ENGINEERING<br><b>V</b> ELECTIVE COURSE | <b>W</b> ECONOMICS<br><b>S</b> SOFT SKILLS<br><b>M</b> MATHEMATICS |

# Master IT Engineering - IT Systems and Security

Start Summer semester

| Semester 1 |   | Semester 2 |   | Semester 3                           |             |   |             |
|------------|---|------------|---|--------------------------------------|-------------|---|-------------|
| X          | Industrial Internet of Things<br>5 ECTS | X          | AI & Optimization for Industrial Applications<br>5 ECTS   | Masterthesis & Colloquium<br>30 ECTS |             |   |             |
| I          | IT Seminar<br>5 ECTS                    | X          | Medical Engineering<br>5 ECTS   |                                      |             |   |             |
| I          | Workshop Cryptography<br>5 ECTS         | X          | Embedded Systems Workshop<br>5 ECTS   |                                      |             |   |             |
| I          | Security Engineering<br>5 ECTS          | I          | IT Project<br>5 ECTS  |                                      |             |   |             |
| I          | Algorithmics<br>5 ECTS                  | I          | Distributed Systems<br>5 ECTS   |                                      |             |   |             |
| T          | Robotics<br>5 ECTS                      | V          | Choice (1 out of 2)<br>Security Management<br>Communication Systems &<br>Reconfigurable Computing<br>5 ECTS |                                      |             |   |             |
| I          | COMPUTER SCIENCE                        | T          | ENGINEERING   | W                                    | ECONOMICS   | M | MATHEMATICS |
| X          | INTEGRATIVE COURSE                      | V          | ELECTIVE COURSE   | S                                    | SOFT SKILLS |   |             |