## Master Thesis

### AR-400

<table>
<thead>
<tr>
<th>Rota</th>
<th>Duration</th>
<th>Semester</th>
<th>SWS</th>
<th>Credit Points</th>
<th>Workload</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS and WS</td>
<td>1 Semester</td>
<td>4th Semester</td>
<td>-- SWS</td>
<td>30</td>
<td>900 h</td>
</tr>
</tbody>
</table>

### 1. Modul Structure

<table>
<thead>
<tr>
<th>Course (Abbreviation)</th>
<th>Type/ SWS</th>
<th>Presence</th>
<th>Self Study</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Master Thesis</td>
<td>Master Thesis</td>
<td>-- h</td>
<td>900 h</td>
<td>30</td>
</tr>
</tbody>
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### 2. Language

English

### 3. Content

1. Becoming acquainted with an academic task by using specifications
2. Analyzing scientific literature, standards and methods
3. Developing solution approaches
4. Verification and evaluation of the solution approaches
5. Selection and implementation of the most suitable approach
6. Scientific description of the methods and solutions in written form

The scientific subject of the Master Thesis has to correspond to the main subject.

### 4. Competencies

The students have the ability to process a specified technical and scientific problem of their subject area by using scientific methods. They can evaluate subject literature by relevance and develop and implement new solutions. Furthermore the candidate is capable of presenting relevant aspects and the solution in a written description, which is scientific and well organized.

### 5. Examination Requirements

A final talk of the student is the module exam. Apart from that the student has to participate actively in at least 5 talks of other students.

### 6. Formality of Examination

- [ ] Module Finals
- [ ] Accumulated Grade

### 7. Module Requirements (Prerequisites)

The Master Theses cannot be started before receiving 81 credit points within the curriculum of the Master Program.

The subject of the Master Thesis has to be assigned to the student’s major field of study.

### 8. Allocation to Curriculum:

Program: Automation & Robotics

### 9. Responsibility/ Lecturer

Dean of the faculty of Electrical Engineering and Information Technology