# AMS Lab Projects

every

(in German: AMS Lab Projects )

**Module-ID: FIN-INF-120503**

| Abbreviation | Credit Points | Semester | Term | Duration | Language | Level |
|---|---|---|---|---|---|---|
| AMS-Lab | 6 | every | starting at 1. | 1 Semester | english | Master |

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| **Link:** | LSF |
| **Limited accessability:** | |
| **Responsibility:** | Prof. Dr.-Ing. Benjamin Noack |
| **Lecturer:** | Prof. Dr.-Ing. Benjamin Noack |
| **Classes:** | • *AMS Lab Projects* |

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|---|---|
| **Applicability in curriculum:** | - M.Sc. INF: Informatik<br>- M.Sc. INF: Schlüssel- und Methodenkompetenzen<br>- M.Sc. INF: Informatik Wahlpflicht (SPO 2027)<br>- M.Sc. INF: Schlüssel- und Methodenkompetenz (SPO 2027)<br>- M.Sc. INF: Projekte (SPO 2027)<br>- M.Sc. INGINF: Informatik<br>- M.Sc. INGINF: Ingenieurinformatik<br>- M.Sc. INGINF: Schlüssel- und Methodenkompetenzen<br>- M.Sc. WIF: Informatik<br>- M.Sc. WIF: Schlüssel- und Methodenkompetenzen<br>- M.Sc. WIF: Informatik Wahlpflicht (SPO 2027)<br>- M.Sc. WIF: Schlüssel- und Methodenkompetenz (SPO 2027)<br>- M.Sc. WIF: Projekte (SPO 2027)<br>- M.Sc. DKE: Applied Data Science<br>- M.Sc. DKE: Projects (SPO 2027)<br>- M.Sc. DE: Interdisziplinäres Team-Projekt<br>- M.Sc. DE: Fachliche Spezialisierung<br>- M.Sc. DE: Digital Engineering-Projekt<br>- M.Sc. DE: Digital Engineering (SPO 2027)<br>- M.Sc. DE: Engineering Specialization (SPO 2027)<br>- M.Sc. DE: Schlüssel- und Methodenkompetenz (SPO 2027)<br>- M.Sc. DE: Projekte (SPO 2027)<br>- M.Sc. VC: Computer Science<br>- M.Sc. VC: Schlüssel- und Methodenkompetenzen<br>- M.Sc. VC: Computer Science (SPO 2027)<br>- M.Sc. VC: Schlüssel- und Methodenkompetenz (SPO 2027) |

**Intended learning outcomes:**
Students who complete the course ...

- can collaborate in teams to solve challenges in technical domains and deepen their technical expertise.
- can manage a project and define goals and milestones
- can acquire the knowledge in a technical domain to derive solutions
- can present and document their work and achievements

**Content:**
This module offers different team projects and individual projects on current, research-related areas like:

- robotics
- sensor data processing
- navigation and planning
- industrial machine learning
- optimization and control
- and more

**Workload:**
180 h of individual and team work

| Pre-examination requirements: | Type of examination: | Teaching method / lecture hours per week (SWS): |
|---|---|---|
| | Scientific Project (Wissenschaftliches Projekt) | Project (2 SWS) |

| Prerequisites according to examination regulations: | Recommended prerequisites: |
|---|---|
| keine | |

| Media: | Literature: |
|---|---|
| | Literature will be announced in the lecture. |

**Comments:**

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