# Sensor Networks Seminar

Winter

(in German: Sensor Networks Seminar )

## Module-ID: FIN-INF-120514

| Abbreviation | Credit Points | Semester | Term | Duration | Language | Level |
|---|---|---|---|---|---|---|
| SN | 6 | Winter | ab 1. | 1 Semester | english | Master |

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|---|---|
| **Link:** | LSF |
| **Limited accessability:** | true |
| **Responsibility:** | Prof. Dr.-Ing. Benjamin Noack |
| **Lecturer:** | Prof. Dr.-Ing. Benjamin Noack |
| **Classes:** | Seminar *Sensor Networks* |
| **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. INGINF: Informatik<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. DKE: Data Processing for Data Science<br>- M.Sc. DKE: Applied Data Science<br>- M.Sc. DE: Methoden des Digital Engineering<br>- M.Sc. DE: Methoden der Informatik<br>- M.Sc. DE: Fachliche Spezialisierung<br>- M.Sc. VC: Schlüssel- und Methodenkompetenzen<br>- M.Sc. VC: Schlüssel- und Methodenkompetenz (SPO 2027) |

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

- can independently research complex topics
- write clear scientific articles
- present informative and understandable scientific talks
- understand challenges and methods in sensor networks
- understand how to these challenges are addressed in practical applications of sensor networks

**Content:**
In this seminar, the participants will learn about

- challenges and methods used in sensor networks
- the variety of applications and application-specific sensor network design

**Workload:**
28 h in presence (consultation meetings, presentations) + 156 h self study

| Pre-examination requirements: | Type of examination: | Teaching method / lecture hours per week (SWS): |
|---|---|---|
| | • Presentation<br>• Discussion<br>• Scientific Article<br><br>(Referat und Hausarbeit) | Seminar (2 SWS) |

| Prerequisites according to examination regulations: | Recommended prerequisites: |
|---|---|
| keine | • Lecture *Introduction to Distributed Sensor Data Fusion*<br>• Learning algorithms<br>• Underpinnings of engineering sciences and/or business informatics (some topics only)<br>• Principles of scientific writing |

| Media: | Literature: |
|---|---|
| | Literature depends on topic assignment and is given to each student together with the assignment |

**Comments:**

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