HAW Kiel
Hochschule für Angewandte Wissenschaften Kiel
Kiel University of Applied Sciences

# MADS-AP - Application Project


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| General information | |
|---|---|
| **Module Code** | MADS-AP |
| **Unique Identifier** | ApplProj-01-MA-M |
| **Module Leader(s)** | Prof. Dr. Schwörer, Tillmann (tillmann.schwoerer@haw-kiel.de)<br>Prof. Dr. Doerfel, Stephan (stephan.doerfel@haw-kiel.de) |
| **Lecturer(s)** | Prof. Dr. Doerfel, Stephan (stephan.doerfel@haw-kiel.de)<br>Prof. Dr. Schwörer, Tillmann (tillmann.schwoerer@haw-kiel.de) |
| **Offered in Semester** | Wintersemester 2026/27 |
| **Module duration** | 1 Semester |
| **Occurrence frequency** | Regular |
| **Module occurrence** | In der Regel jedes Semester |
| **Language** | Englisch |
| **Recommended for international students** | No |
| **Can be attended with different study programme** | No |

| Curricular relevance (according to examination regulations) |
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| Study Subject: M.Sc. - DS - Data Science<br>Module type: Pflichtmodul<br>Semester: 2 |

| Qualification outcome |
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| *Areas of Competence: Knowledge and Understanding; Use, application and generation of knowledge; Communication and cooperation; Scientific self-understanding / professionalism.* |
| Students<br>- know how to organize data science projects.<br>- know how to perform the relevant tasks in data science projects. |
| Students<br>- are able to apply their knowledge in real-world data science projects. |
| Students<br>- are able to work professionally with external customers<br>- are able to successfully organize teamwork for data science projects.<br>- are able to report and present team solutions for practical project tasks.<br>- are able to leverage the individual skills of all team members. |
| Students<br>- are able to work professionally in the field of data science.<br>- are able to give and accept professional feedback to different topics of data science. |

| Content information | |
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| **Content** | In general, the application project is carried out in teams and together with an external project partner. Topics are provided by the lecturers in collaboration with the external project partners. The application project requires independent and self-contained work in the teams to deepen the knowledge obtained from the data science lectures.<br><br>The application project work typically includes:<br>- Creation and assessment of methods according to standard research methodologies.<br>- Execution of experiments and documentation.<br>- Creation, implementation and documentation of tools and applications.<br>- Regular progress reports and consultations with both project partners and lecturers<br>- Presentation of results to project partners and participants of the study programme |
| **Literature** | Presentation slides<br>Information by provided by project partner |

| Teaching formats of the courses | |
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| **Teaching format** | **SWS** |
| Projekt | 8 |

| Workload | |
|---|---|
| **Number of SWS** | 8 SWS |
| **Credits** | 10,00 Credits |
| **Contact hours** | 96 Hours |
| **Self study** | 204 Hours |

| Module Examination | |
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| **Examination prerequisites according to exam regulations** | None |
| **MADS-AP - Projektbezogene Arbeiten** | Method of Examination: Projektbezogene Arbeiten<br>Weighting: 100%<br>wird angerechnet gem. § 11 Absatz 2 PVO: No<br>Graded: Yes |

| Miscellaneous | |
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| **Recommended Prerequisites** | It is strongly recommended to have heard the modules of the first semester of the Data Science program. |
| **Miscellaneous** | Important: Due to the nature of this module, some planning is required before-hand (at the end of the previous semester's lectures and before the lectures start in this semester). |