Valid from 2024.HS

Module description: Project Thesis: Transportation Systems

Module Code	t.BA.MO.PA.24HS
ECTS Credits	6
Language of Instruction/Examination	German
Organizational Unit	MPS Ltg.
Module Coordinator	Thomas Sauter-Servaes
Legal Framework	The module description is part of the legal basis in addition to the general academic regulations. It is binding. During the first week of the semester a written and communicated supplement can specify the module description in more detail.
Module Characteristic	Type 6 Project work
Module Description	For their project thesis, students work independently on a topic from the field of mobility & logistics in close cooperation with practical partners from the transport industry (companies, associations, administration) and their supervising lecturers.
Module Content	• The project thesis consists of the independent work on a comprehensive practice-oriented technical-scientific problem. The problem can originate from research & development of an institute or directly from practice partners from the transport industry. • The steps that students practice by working on the problem include an analysis of the problem and the structuring and planning of the workflow with a time schedule. Depending on the problem, field investigations and/or modeling and simulation may be required. The results lead to the solution of the problem. The students are able to critically examine the results and are able to assess whether the set goals are achieved or the requirements from the task are fulfilled. • During the project thesis, the students regularly report on its progress and discuss the further process. In a report, project implementation and results are documented.
Prerequisite Knowledge	

Learning Objectives (Competences)

Students...	Competencies	Taxonomies
Students will be able to critically review the results and evaluate whether the objectives have been met.	F, M	K6
Students will have the ability to document findings in a report.	SO, SE, M	K5
Students demonstrate engineering thinking and action through a real-world problem definition posed and worked on in close collaboration with industry.	SO, M, F, SE	K6
Generally, students work in a team of two and communicate with the client and the supervising instructor.	SE, SO	K4
Students can independently determine the task and plan the workflow.	M, F	K2
Students have the ability to independently acquire methodological and subject-specific scientific knowledge from literature and professional publications.	F, M	K4
Students are able to apply the knowledge and skills acquired in their studies to practical problem solving and develop new solutions to the problem in combination with their findings from the literature review.	F, M, SE, SO	K5

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Performance Assessment

End-of-module exam	Assessment	Length (min.)	Weighting	Form
report	Grade		100	acc. to module agreement

Performance assessment during the semester	Assessment	Length (min.)	Weighting	Form
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Classroom Attendance Requirement	None
Learning material	
Comments	