

MatHand - Materials handling

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General information	
Module Code	MatHand
Unique Identifier	MatHandI-01-MA-M
Module Leader(s)	Prof. Dr. Strauß, Henning (henning.strauss@haw-kiel.de)
Lecturer(s)	Prof. Dr. Strauß, Henning (henning.strauss@haw-kiel.de)
Offered in Semester	Sommersemester 2024
Module duration	1 Semester
Occurrence frequency	Regular
Module occurrence	In der Regel im Sommersemester
Language	Englisch
Recommended for international students	Yes
Can be attended with different study programme	No

Curricular relevance (according to examination regulations)
Study Subject: M.Sc. - IE II - Industrial Engineering II - weiterbildend Module type: Pflichtmodul Semester: 3

Qualification outcome
<i>Areas of Competence: Knowledge and Understanding; Use, application and generation of knowledge; Communication and cooperation; Scientific self-understanding / professionalism.</i>
The students: - can identify pros and cons as well as limits and possibilities of different rules / methods / models theories in Materials Handling - can impact important adjustments - make decisions based on alternative solution strategies for the problem - work under the guidance of the specialist department
The students: - can successfully complete scientific work in the "real case" of a partner company using scientific methods and principles - assess which rules / methods and models to use for each case - can research the topic, gather information, rate and classify them - can develop case-related solutions - can derive and formulate relevant research questions
The students: - can present and defend their work results in lectures and presentations - argue in discussions argumentatively complex subject-related problems and solutions - can guide individuals and heterogeneous groups - can build theoretically substantiated arguments within a technical discussion
The students: - justify one's own professional acting with theoretical and methodic knowledge on the basis of materials handling - can independently handle open tasks - reflect on one's own abilities against the background of acquired expertise

Content information	
Content	<p>Materials Handling is about:</p> <ul style="list-style-type: none"> - Movement and storage - Control and protection - Cleaning and preparation - Distribution and consumption - Disposal of materials, goods and their packaging <p>in the presence phase the students have to design a high bay racking under the focus of:</p> <ul style="list-style-type: none"> - Defining products and their storage - Designing the best and safest way of storage and handling - Thinking of the processes for place and release from stock - Choosing the right handling equipment
Literature	Will be presented in the first presence phase and is on the platform.

Teaching formats of the courses	
Teaching format	SWS
Lehrvortrag + Übung	1
Keine Präsenzzeit	3

Workload	
Number of SWS	4 SWS
Credits	5,00 Credits
Contact hours	48 Hours
Self study	102 Hours

Module Examination	
Examination prerequisites according to exam regulations	For the successful participation in the module the presentations and the written exam as well have to be passed with sufficient (50%)
MatHand - Präsentation	<p>Method of Examination: Präsentation Duration: 15 Minutes Weighting: 25% wird angerechnet gem. § 11 Absatz 2 PVO: No Graded: Yes Remark: For the successful participation in the module the presentations and the written exam as well have to be passed with sufficient (50%)</p>
MatHand - Präsentation	<p>Method of Examination: Präsentation Duration: 15 Minutes Weighting: 25% wird angerechnet gem. § 11 Absatz 2 PVO: No Graded: Yes Remark: For the successful participation in the module the presentations and the written exam as well have to be passed with sufficient (50%)</p>
MatHand - Technischer Test	<p>Method of Examination: Technischer Test Duration: 60 Minutes Weighting: 50% wird angerechnet gem. § 11 Absatz 2 PVO: Yes Graded: Yes Remark: For the successful participation in the module the presentations and the written exam as well have to be passed with sufficient (50%)</p>

Miscellaneous	
Recommended Prerequisites	It may be helpful to join the module Production & Organisation before this module.
Miscellaneous	Both presentations are group works. The first presentation has to be prepared for the presence phase and will be presented there. In the second presence phase, the second group work will be presented and the exam will take place