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

MI138 - Web Application Development with .Net Technology

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General information	
Module Code	MI138
Unique Identifier	
Module Leader(s)	Prof. Dr. Manzke, Robert (robert.manzke@haw-kiel.de) Prof. Dr. Acker, Wolfram (wolfram.acker@haw-kiel.de)
Lecturer(s)	Das, Amrita (amrita.das@haw-kiel.de) Prof. Dr. Manzke, Robert (robert.manzke@haw-kiel.de)
Offered in Semester	Sommersemester 2021
Module duration	1 Semester
Occurrence frequency	Regular
Module occurrence	In der Regel jedes Semester
Language	Englisch
Recommended for international students	Yes
Can be attended with different study programme	Yes

Curricular relevance (according to examination regulations)
Study Subject: M.Sc. - MIE - Information Engineering (PO 2022, V3) Study Specialization: Information Technology and Systems Module type: Wahlmodul Semester: 1, 2, 3
Study Subject: M.Sc. - MIE - Information Engineering (PO 2022, V3) Study Specialization: IT Security Module type: Wahlmodul Semester: 1, 2, 3
Study Subject: M.Sc. - MIE - Information Engineering (PO 2022, V3) Study Specialization: Intelligent Systems Module type: Wahlmodul Semester: 1, 2, 3
Study Subject: M.Sc. - MIE - Information Engineering (PO 2022, V3) Study Specialization: Business IT-Management Module type: Wahlmodul Semester: 1, 2, 3

Qualification outcome
Areas of Competence: Knowledge and Understanding; Use, application and generation of knowledge; Communication and cooperation; Scientific self-understanding / professionalism.

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The students will
- understand the necessity of abstract and complex structures.
- learn about the value of precise definitions of technical terms.
- experience the difference between structural complexity and technical reality.
- experience the difference between working in a team and working alone.

The students want to learn
- to be a part of a team. Accept and respect the strengths and weaknesses of other students within their group.
- to take responsibility for the results of the group's results.
- to reach their goals by cooperation with other students.

Content information	
Content	Object Orientated Web Application Development Introduction to .Net Technology (Concepts and Components) Framework class Library (FCL), Common Languange Runtime (CLR) Overview of different versions of Microsoft .Net Framework Development with Microsoft Visual Studio ASP .Net, ADO .Net, Web Services Application Development in C # .Net WCF, WPF application development LINQ, Entity Framework MVC, MVVM architecture design and development
Literature	Matthew MacDonald, Beginning ASP.NET 4.5 in C# Jürgen Kotz, .NET 3.0. WPF, WCF and WF - an overview Wolfgang Beer, The .NET technology: Fundamentals and application programming

Teaching formats of the courses	
Teaching format	**SWS**
Lehrvortrag	2
Labor	2

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	None
MI138 - Mündliche Prüfung	Method of Examination: Mündliche Prüfung Duration: 15 Minutes Weighting: 30% wird angerechnet gem. § 11 Absatz 2 PVO: Yes Graded: Yes
MI138 - Projektbezogene Arbeiten	Method of Examination: Projektbezogene Arbeiten Weighting: 70% wird angerechnet gem. § 11 Absatz 2 PVO: Yes Graded: Yes

Miscellaneous	
Recommended Prerequisites	Recommended requirement for participation: Understanding the concepts of object-oriented programming
Miscellaneous	Miscellaneous: Within the lab a written protocol has been provided for each lab. To pass the module has all the protocols to be passed.