MW118: Applied Machine Learning					Study Programme:	: M
Module Type:	ECTS Credits:	Workload:	Study	semester:	Module Duration:	
Optional	8	240		any	one semester	
Courses (HPW=hours per week):				Contact hours:	Indepen- dent study:	Planned Group Size:
Course 1: Applied Machine Learning - Lecture (2 HPW)				30h	90h	30
Course 2: Applied Machine Learning – Computer Class (2 HPW)				30h	90h	30
Intended Learning	Outcomes (ILOs):			<u> </u>	<u>_ </u>	
to assess a The acquired know promotes the abil Key competencies:	ind reflect the pos wledge is applied i lity to solve practio	sibilities and lim n computer clas cal problems inc	nits of the sses with lepender	e different m the help of s ntly and to re	ethods. standard softw flect critically	ware. This
 academic critical thin analytical willingness oral and w Description/Contention 	research and writi nking skills s to learn and acco rritten expression nts:	ng omplish				
Course 1: Applied 1. Linear Regress 2. Classification 3. Resampling M 4. Linear Model S 5. Nonparametric 6. Tree-Based M 7. Neural Networ	l Machine Learnin ion ethods Selection and Regula c Regression ethods rks and Deep Learni	g - Lecture arization ng				

Course 2: Applied Machine Learning – Computer Class

Cf. contents of course 1.

Language:

The language of the lectures is English.

Teaching Methods:

Lectures, group work, self-study.

Module Applicability:

M.Sc. Business Administration; M.Sc. VWL; M.Sc. Economics; M.Sc. Business Chemistry; M.Sc. Financial and Actuarial Mathematics

Pre-requisites/Requirements:

Admission to study Business Administration, VWL, Economics, Business Chemistry or Financial and Actuarial Mathematics for a Master's degree. Basic knowledge of statistics and econometrics from the bachelor's program is recommended.

Examination Types:

Written exam (60 min)

Requirements for Award of Credit Points:

Successful participation in the exam. The exam will be passed if the grade is at least "sufficient" (4,0).

Availability:

The module will be offered generally each winter term.

Assessment:

This course will be graded and is part of the calculation for the overall grade of your master degree. Particular information concerning the calculation of the overall grade can be gathered in the respective examination regulations.

Person Responsible and Main Lecturer:

Prof. Dr. Florian Heiß and teaching/research assistants.

Further Information:

Current information can be found at the website of the person responsible as ILIAS and His-LSF.

Stand: 25.09.2023