

Name of module	Statistic
Responsible	M. Sc. Petra Clauß
Qualification goals	<p>Students will be able to,</p> <ul style="list-style-type: none"> - recognize whether the application requirements of the learned methods are fulfilled, - model problems in a statistical sense, - interpret the calculated results in relation to the problem, - check the applicability of the statistical methods, - design the analysis of data and perform it on the computer using a statistical program.
Module Content	<p>1 Basics 1.1 Statistical terms 1.2 Introduction to a statistical computer program</p> <p>2 Descriptive statistic 2.1 Univariate data analysis 2.2 Bivariate data analysis</p> <p>3 One-dimensional random variables and distributions 3.1 Discrete and continuous random variables and probability distributions 3.2 Parameters of probability distributions 3.3 Functions of random variables</p> <p>4 Special probability distributions 4.1 Discrete distributions 4.2 Continuous distributions</p> <p>5 Estimation and testing methods 5.1 Parameter estimation 5.2 Interval estimation 5.3 Statistical hypothesis testing</p>
Teaching methods	<ul style="list-style-type: none"> - Lectures - Supervised exercises (on PC) - Supervised exercises (without PC) - Self-study
Necessary Previous Knowledge	none
Literature	<ul style="list-style-type: none"> - Heumann, C., Schomaker M. and Shalabh: Introduction to Statistics and Analysis, Springer, 2016 - Härdle, W. K., Klinke, S. and Rönz, B.: Introduction to Statistics, Springer, 2015
Author instructive letter	not necessary
Utilization	<p>This module is particularly closely related to the following modules of the same degree program:</p> <ul style="list-style-type: none"> - Marketing - Bachelor Thesis <p>This module is also useful for other business-oriented courses at Schmalkalden University of Applied Sciences.</p>
Student Work Load	<p>Total workload: 150 hours, thereof:</p> <p>1) synchronous teaching: 60 (classroom study)</p> <p>2) asynchronous teaching: 90, thereof:</p> <ul style="list-style-type: none"> - preparation for the course (especially literature study): 20

	<ul style="list-style-type: none"> - follow-up of the course: 20 - preparation of the exercises: 25 - preparation of the exam: 25
European Credit Transfer Points	5 ECTS-Punkte; Course: International Business and Economics: 5/180
Method and Extent of Examination	Exam (60 Minutes (100%))
Semester	2. Semester
Frequency	each academic year
Duration	one Semester
Type of course (compulsory, choice etc.)	compulsory modul
Remarks	

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