TECHNISCHE UNIVERSITÄT KAISERSLAUTERN

Module Handbook

TUK MODHB Homepage

Module MAT-25-10W-M-4

Practical Training Business Mathematics (M, 9.0 LP)

Module Identification

Module Number	Module Name	CP (Effort)
MAT-25-10W-M-4	*Practical Training Business Mathematics*	9.0 CP (270 h)

Basedata

CP, Effort	9.0 CP = 270 h
Position of the semester	1 Sem. in WiSe/SuSe
Level	[4] Bachelor (Specialization)
Language	[DE] German
Module Manager	Bracke, Martin, Dr. (WMA | DEPT: MAT) Fattler, Torben, Dr. (WMA | DEPT: MAT) Kämmerer, Florentine, Dr. (WMA | DEPT: MAT) Stockis, Jean-Pierre, Dr. (WMA | DEPT: MAT)
Lecturers	The Lecturers of the department Mathematics
Area of study	[MAT-HPT] Mathematics (B.Sc. 3rd year - general)
Reference course of study	[MAT-82.276-SG] B.Sc. Business Mathematics
Livecycle-State	[NORM] Active

Notice

With the approval of the examination board of the Department of Mathematics, this module can be replaced by a comparable internship (at least 7 weeks full-time) which ensures the achievement of the qualification goals.

Courses

Type/SWS	Course Number	Choice in Module-Part	SL	PL	CP	Sem.
2L	**MAT-25-10W-K-4**	P	L-Schein	no	9.0	WiSe/SuSe

- About **[MAT-25-10W-K-4]**: Title: "Practical Training Business Mathematics"; Presence-Time: 28 h; Self-Study: 242 h
- About **[MAT-25-10W-K-4]**: The study achievement **"[L-Schein] proof of successful participation in the practical course / lab"** must be obtained.

Evaluation of grades

The module is not graded (only study achievements)..

Contents

From [MAT-25-10W-K-4] Practical Training Business Mathematics:

A selected topic will be used as an example to deal with an issue from (business) mathematics aiming at a practical implementation in the form of a programme / programme package. The participating students should first work out largely indepently the issue, plan the realisation of the project, carry it out and finally present their results.

The topic should take into account the different preknowledge of the students, which is based on the fact that individually different choices were made for the compulsory electives of the second year of study.

As a rule, two to three students should work together on a single project.

The implementation of the project is accompanied by the teaching and elaboration of the required soft skills (such as project planning and team management).

Competencies / intended learning achievements

Upon successful completion of this module, the students have learnt to get through a mathematical issue, including setting a timetable and milestones.

They are able to complete a self-contained programming project, including full documentation and final validation, project planning, team management and presentation of the final product.

Registration

Towards the end of each semester's lecture period, the practical training projects (Fachpraktika) offered in the following semester will be presented at the "Praktikumsbörse" and the modalities for participation and registration will be announced.

Further information can be found on the website of the bachelor's programme **[MAT-82.276-SG]** *"Business Mathematics"* and asked for at the persons in charge for the practical training projects of the respective specialisations (Fachpraktikumsbeauftragte):

- Analysis and Stochastics: Dr. T. Fattler,
- Modelling and Scientific Computing: Dr. M. Bracke,
- Optimisation and Stochastics: Dr. F. Kämmerer (Optimisation), Dr. J.-P. Stockis (Stochastics).

Requirements for attendance of the module (informal)

Knowledge from courses of Practical Mathematics (Optimisation, Numerical Methods, Stochastics); depending on the project, further prerequisites may be necessary.

Modules:

- [MAT-10-1-M-2] Fundamentals of Mathematics (M, 28.0 LP)

Courses

- [MAT-14-02-K-3] Proseminar Modelling in Business Mathematics (with Project) (2S+1L, 5.0 LP)

Requirements for attendance of the module (formal)

Registration at the person in charge for the practical training projects of the respective specialisation (Fachpraktikumsbeauftragte) is required; in the case of projects/internships outside the department of mathematics, the registration has to be done at least one month before the start of the projects/internship.

As formal admission requirement for a specific project, the proof of successful participation (Praktikumsschein) for one of the programming labs from the module **[MAT-14-02-M-3]** may be required.

References to Module / Module Number [MAT-25-10W-M-4]

Course of Study	Section	Choice/Obligation
[MAT-82.276-SG] B.Sc. Business Mathematics	[Specialisation] Specialization Business Mathematics	[P] Compulsory