



Lightweight and Drywall Construction and Interior Engineering

This Master Research Unit (MRU) is located in the centre for the innovation of timber and drywall construction (VHT) in Darmstadt, Germany. The VHT in Darmstadt and the University of Applied Sciences in Rosenheim have been cooperating over many years and possess a high degree of expertise in the areas of drywalling, lightweight construction and interior engineering. This is demonstrated by the unique Interior Engineering study course in Rosenheim with the Professorship in «Drywall Construction» (Prof. Dr. Pfau) sponsored by Knauf Plaster KG.

Following the principle of a comprehensive approach to research, the studies extend to all relevant areas, ranging from the properties of the building materials via modern simulation techniques to design and site management. You should integrate your Master's thesis into the areas of expertise of these two centres of learning.

The Research Centre is internationally recognised for its research into timber, lightweight and drywall construction. The well equipped laboratories and testing units offer the perfect conditions for scientific research.

Course content

The studies are practically focused and are individually structured depending on your aims and interests. Besides choosing the appropriate design for each material and developing unusual construction techniques, you will also master demanding planning tasks. The combined competence of this MRU leads to a deeper knowledge base and enables students to critically evaluate scientific data and to plan responsibly in the areas of lightweight and drywall construction as well as interior engineering.

During the course of studies, you will prepare projects in interior engineering (particularly where these overlap with lightweight and drywall construction). The research will be in steel lightweight construction, the redevelopment of existing buildings and renovations.



Berner Fachhochschule
Architektur, Holz und Bau

Hochschule Rosenheim
University of Applied Sciences





Within the Lightweight and Drywall Construction and Interior Engineering MRU you will be able to develop your knowledge in one or several of the following skill sets:

Redevelopment of Existing Buildings

The future of the redevelopment of buildings will encompass a variety of tasks such as energy saving measures, alterations and extensions to existing domestic housing, extensions to public buildings or the change of use of existing factory compounds. Such projects usually involve drastic changes in the statics and construction of the buildings. For this reason, there are substantial technical and financial differences between the redevelopment of existing buildings and newbuilds. Therefore, a particular approach to the planning, implementation and calculation of the required building project is needed. You will be introduced to the innovative generation of solutions using individual and comprehensive drywall construction systems and to planning these in a practically relevant and economically feasible way.

As a specialist in the Redevelopment of Existing Buildings you will be able to implement measures which overlap with the static requirements as well as with fire, sound and thermal protection requirements. On the basis of thorough surveys, you will be able to suggest solutions for enhancing the substance of the building. Furthermore, you will recognise the architectural and structural qualities of buildings and will become familiar with the regulations for preserving historical monuments and will offer innovative solutions for their redevelopment.

Advanced Interior Engineering and Interior Design

Creating a sense of comfort and relaxation plays a major role in the planning of living accommodation as well as in business and shop concepts. This sense of comfort and relaxation is expressed through the skilled use of shape, colour, innovative material and the function of individual pieces of furniture in com-

plete rooms. Limitations are set by what is achievable. Overcoming these limitations is a vital skill required of graduates of the future. Therefore, this course explores the foundations of design and shape and investigates the constructions and systems used in interior engineering and drywall construction. You will learn to make use of a number of construction systems and materials in order to find solutions for all aspects of quality in interior engineering and drywall construction.

As a specialist in Interior Engineering and Interior Design you will be able to plan and generate single pieces of furniture, kitchens, displays for exhibitions and sales (shop design) and design rooms in residential and business settings. You will use the principles of drywall and lightweight construction in the process and will master the classical areas of planning, construction and calculation. You will have learnt the skill of interdisciplinary cooperation with other professionals such as interior designers, civil engineers and drywall construction specialists.

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