

Module XVI – Project Work

Module no. EM 16	Courses: Project Work
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Head of the module:	Prof. Dr Verena Rath
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Part of studies:	Two	Semester hours per week:	6
Semester:	Six	Workload:	240 h
Duration of module:	One semester	Credits:	8
Status:	Compulsory module	Assessment:	Seminar paper
Frequency:	Every second semester	Weighting for total grade:	8

Breakdown of the total workload:

On-campus studies	Excursion	Self-study	Assessment
67.5 h	0 h	172.5 h	-

Short description of the module:

In the scope of “Project Work”, the students learn how to work on a complex task with its main focus from the field of energy management under inclusion of the corresponding specialist literature and to develop interdisciplinary solutions.

The projects are usually assigned as group projects whereby the contribution of individual team members is laid down for each student. In this way, the students learn how to work in a team-oriented way. The project work usually takes a period of three months whereby the progress of the project is monitored constantly by means of continuous interim reports.

Combining the module with other courses and modules in the degree course:

In the course “Project Work”, the main focus is on energy management/business economics topics. The interdisciplinary connection between the most important main subjects of energy management and business economics plays a considerable role. The interdisciplinarity and practice orientation of the project work is intensified by the involvement of colleagues of adjacent faculties and external guest lecturers from practice. The involvement of guest lecturers opens up the possibility for the students to establish contacts or intensify already existing ones at the end of their studies. Due to the chosen way of assessment (“seminar paper”), the students deepen the skills acquired in Module XXIII on scientific work and communication techniques.

Compatibility with other courses of study:

The interdisciplinarity of “Project Work” described makes the module compatible for both business economics and project management related as well as energy management or energy technical course of study within or outside the university of applied sciences.

Teaching and studying methods and techniques:

In the scope of “Project Work”, the students work in small groups on practical tasks from various external project partners. The students are instructed in implementing projects by professors and project partners – yet the actual project work is up to the students. At the end of the project, the students present their results in front of a board of project partners, lecturers and students.

With regard to the internationalisation of the course of studies, the course endeavours to also be able to offer a topic in the English language on a regular basis.

In the scope of the course “Network Management”, three different didactical methods are applied depending on the educational objective: The actual lecture serves the conveying of fundamental factual knowledge. Shorter on-the-spot exercises for the direct application of new concepts or definitions are set for each student to solve on their own or in small groups and discussed directly in the lecture. The contents of the course are deepened by a subject-specific excursion to a network operator.

Course:	Project Work	Course Code
Module:	XVI Project Work	EM 16.1

Head of the module:	Prof Dr Verena Rath	Lecturer:	n. n.
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Part of studies:	Two	Semester hours per week:	6
Semester:	Six	Workload:	240 h
Status:	Compulsory subject	Credits:	8
Frequency:	Every second semester	Assessment:	Seminar paper
Taught in:	German or English		

Breakdown of the workload:

On-campus studies	Excursion	Self-study	Assessment
67.5 h	0 h	172.5 h	-

Prerequisites:

Knowledge of the essential contents, ways of thinking and working methods of general business economics from the modules "Business Administration" and "Economics" (Modules IV and V) as well as the "Fundamentals of Energy Management" (Module XI). In addition, financial mathematical knowledge from the module "Financing" (Module VII). Further required are the contents taught in the module "Project Development and Management" (Module XIV).

Qualification objectives:

The participants are to apply and implement the specialist knowledge acquired in the preceding courses, especially in the energy-specific main subjects, on the basis of tasks in case studies. The focus is on conveying practice-oriented working methods in cooperation with external project partners, which enable the participants to structure complex issues and provide them with a holistic economic solution. With that, the participants are to go through all the steps from the situation analysis over the development of the concept down to the completed presentation and the implementation of individual project measures. Particular attention is paid to a team-oriented decision-making process as well as an interdisciplinary connection.

Content of teaching:

- ❖ Objective and project definition
- ❖ Project planning, defining the operational and organisational structure, feasibility analysis
- ❖ Modelling, developing, managing, controlling
- ❖ Project evaluation
- ❖ Project completion and documentation

Lecture material:	Script online in Ilias, supplementary handouts as and when required,
Recommended reading:	Jakoby, W.: Projektmanagement für Ingenieure – Ein praxisnahes Lehrbuch für den systematischen Projekterfolg, Springer Vieweg, Wiesbaden 2012, 2 nd edition Kuster, J. / Huber, E. / Lippmann, R. / Schmid, A. / Schneider, E. / Witschi, U. / Wüst, R.: Handbuch Projektmanagement, Springer publishing, Berlin 2011