

Module description: Project Management in Energy Plant Construction	
Module Code	t.BA.EU.PM3.19HS
ECTS Credits	4
Language of Instruction/Examination	German
Organizational Unit	IEFE
Module Coordinator	Christian Stahel
Legal Framework	The module description is part of the legal basis in addition to the general academic regulations. It is binding. During the first week of the semester a written and communicated supplement can specify the module description in more detail.
Module Characteristic	Type 4* 4 lab lessons per semester week and half-class
Module Description	In the Project Management in Power Plant Engineering module, students learn to apply project management techniques to areas of power plant engineering. The module forms part of the project modules in the course.
Module Content	<p>Construction related project management</p> <p>Project planning and procedure, phases, milestones.</p> <p>Tender, contract for work</p> <p>Energy flow diagrams, Sankey diagrams</p> <p>Relevant energy flows in buildings</p> <p>Temperature</p> <p>Heat</p> <p>Heat transfer</p> <p>Building standards</p> <p>Building services engineering</p> <p>Heat generation</p> <p>Heat distribution</p> <p>Ventilation</p> <p>Air conditioning</p> <p>Energy concept for a building project is developed and presented in groups.</p>
Prerequisite Knowledge	

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Learning Objectives (Competences)	Students...		Competencies	Taxonomies		
	The students acquire the basic overview knowledge for the creation of energy concepts.		M	K1, K2		
	You work actively and goal-oriented in a team and take responsibility for subtasks.		SO	K5		
	You will be able to present your own technical decisions and solutions in a comprehensible and convincing manner, both orally and in writing.		M	K5		
	You apply your expertise by working on a concrete project. The solutions are found independently.		M	K3		
	They can identify missing knowledge for the processing of a problem and procure the information necessary for problem solving in a timely and independent manner.		SE	K3, K4		
	You can communicate your own project results in a technically and linguistically correct and address-oriented manner.		M	K3		
	Overview: The basics of project management in energy plant construction are taught. What has been learned is immediately applied to a real project, in which, for example, the energy concept for a construction project is to be developed. The results of the project are presented appropriately.		F, M, SO	K2, K3, K4		
Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Form	
	report	Grade	0	50	acc. to module agreement	
	Performance assessment during the semester		Assessment	Length (min.)	Weighting	Form
	written exam		Grade	60	30	acc. to module agreement
	report		Grade		20	acc. to module agreement
Classroom Attendance Requirement	None					
Learning material						
Comments	The planning exercises require active technical and conceptual cooperation by the students. The practical exercises are carried out in groups of 3-5 members. The non-technical skills are promoted in the team work.					