

Courses in English

Course Description

Department	05 Building Services Engineering, Paper and Packaging Technology and Print and Media Technology
Course title	Plant Engineering
Hours per week (SWS)	4
Number of ECTS credits	5
Course objective	Ability to design elements and components necessary for the construction of industrial plants; pressurized devices, pipeline systems, selection of pumps and compressors
Prerequisites	Statics, Dynamics, Fundamentals of Fluid Dynamics and Thermodynamics
Recommended reading	Grundlagen der Rohrleitungs- und Apparatechnik, 4th edition, Vulkan-Verlag Essen, 2014 by Rolf Herz
Teaching methods	Blended Learning: videos, lecture, questionnaire, calculation examples
Assessment methods	Written final exam
Language of instruction	English
Name of lecturer	Prof. Dr.-Ing. Rolf Herz
Email	herz@hm.edu
Link	
Course content	<ul style="list-style-type: none">- Plant elements- Drawing- Loads on walls of pressurized devices- Wall thickness calculations- Support and expansion compensation of pipelines- Fluid Dynamics in pipelines- Selection of pumps and compressors
Remarks	