# Course Description

## Department
05 Building Services Engineering, Paper and Packaging Technology and Print and Media Technology

## Course title
Fundamentals of Air Conditioning Systems

## Hours per week (SWS)
2

## Number of ECTS credits
2

## Course objective
The overall objective of this course is to give the students an idea about air conditioning and ventilation systems. This includes a clear understanding of air properties and the different processes for air handling. Further the students will learn the selection of fans and pumps and basic operation conditions for these fluid flow engines. Finally the students will learn how to do the basic design of air conditioning systems.

## Prerequisites
Thermodynamics, basic knowledge about Fluid Flow Engines

## Recommended reading

## Teaching methods
lecture and examples

## Assessment methods
90 min final exam

## Language of instruction
English

## Name of lecturer
Prof. Dr. Martin Renner

## Email
martin.renner@hm.edu

## Course content
Idea for Ventilation and Air Conditioning; Air Properties - processes of air handling; Fans - selection and operation; Pumps - selection and operation;

## Remarks