Hochschule für Angewandte Wissenschaften Hamburg
Hamburg University of Applied Sciences

STUDIENDEPARTMENT FAHRZEUGTECHNIK UND FLUGZEUBAU

Simulation of Components from the Environmental Control System

Task for a *Projekt 2*

Background

This task is part of the research project FLECS (Functional Library of the Environment Control System) – a simulation environment for computer-assisted design of innovative environmental control systems for passenger aircraft. FLECS is based on the commercially available package MATLAB/Simulink.

Task

Various components from the environmental control system need to be simulated in FLECS – this project should try to make a contribution. Starting from simple resistance elements from the air distribution network like valves, check valves and filters, the project should develop into modelling of more sophisticated components like fans, compressors or turbines.

The report has to be written according to German DIN standards on report writing!