



Course number: BIM 10710
Simulation and Modelling
Study Level: Master / Graduate

Prof. Dr. da Silva
Language of Instruction: English
ECTS Credits: 6

Based on Simulation & Modelling students are able,

- to use the Software Polysun
- to write simple Matlab-Simulink Scripts and functions applying conservation laws
- to solve forecast or design tasks related to renewable energy systems and they improve their proficiency in English.

Content:

- fundamentals of energy system modeling and numeric
- parametrization of commercially available models
- for PV-Systems and biomass heating systems (Polysun)
- fundamentals/introduction into Matlab and Simulink
- modeling and simulation of electrical and/or thermal and/or
- hydropower systems including energy storage