

Module Name	Computer Aided Design
Module Number	Eul-ET-C-RgEnt
Responsible Lecturer	Prof. Dr.-Ing. habil. Jens Lienig jens.lienig@tu-dresden.de
Qualification Objectives	After completing the module, students master the methodology of computer-aided layout design and the approach to thermal design. They are also capable of performing a layout design using commercial design tools.
Contents	The module covers: - Terms and concepts of computer-aided design, such as design steps, library concepts, layout interfaces, objectives, and constraints in layout design - Thermal design, including the fundamentals of heat transfer, thermal calculations, and models
Teaching and Learning Forms	3 hours per week of lectures, 2 hours per week of exercises, 2 hours per week of practical lab courses, and self-study.
Prerequisites for Participation	The competencies to be acquired in the modules Electronic Systems Design and Scientific Work in Electrical Engineering Basics are required.
Usability	The module is a compulsory module of the main study program in the field of Electronic Systems, Micro and Medical Technology in the diploma program Electrical Engineering. It creates the prerequisites for the modules that list this module in the field "Prerequisites for Participation."
Prerequisites for the Award of Credit Points	Credit points are awarded when the module examination is passed. The module examination consists of a portfolio with a workload of 30 hours and a non-public oral group examination lasting 30 minutes per person. Both examination components are mandatory for passing.
Credit Points and Grades	7 credit points can be earned through the module. The module grade is determined by the unweighted average of the grades of the examination components.
Frequency of the Module	The module is offered every summer semester.
Workload	The total workload is 210 hours.
Duration of the Module	The module lasts one semester.