

Module name	Electronics Technology Lab
Module number	Eul-ET-C-PET
Lecturer in charge	Prof. Dr.-Ing. habil. Thomas Zerna thomas.zerna@tu-dresden.de
Objectives	After completing the module, students have basic knowledge, competencies and practical skills in the design of substrates, component assembly and commissioning as well as accompanying quality management processes. In addition, they possess social and rhetorical skills as well as presentation skills through the team-oriented, self-organized, work-sharing implementation of the practical experiments.
Contents	The module covers the computer-aided design of printed circuit boards, printed circuit board production, parameter optimization for technological processes, module assembly technologies, testing and commissioning of modules and simulation of the quality behavior of production processes.
Modes of teaching and learning	2 hours per week practical lab courses and and self-study.
Prerequisites	The skills to be acquired in the modules Basics of Electrical Engineering , Materials Science and Physics are required.
Usability	The module is a compulsory module in the basic studies of the degree programme Electrical Engineering. It creates the prerequisites for the modules that list that module in the "Prerequisites" field.
Requirements for the award of credit points	The credit points are awarded when the module assessment is passed. The module assessment consists of a complex assignment of 12 hours.
Credit points and grades	2 credit points can be obtained by the module. The module grade is the grade of the examination.
Frequency	The module is offered every winter semester.
Workload	The total effort is 60 hours.
Duration	The module takes one semester.