

Module name	Physics
Module number	Eul-ET-C-Phy
Lecturer in charge	PD Dr. Eduard Lavrov eduard.lavrov@tu-dresden.de
Objectives	After completing the module, students will have knowledge of areas of physics as a prerequisite for understanding physical phenomena and their application in electrical engineering. With the thinking and working methods of physics, they are able to find solutions to physical problems independently.
Contents	The module covers the fields of mechanics, thermodynamics, vibrations and waves, optics and the structure of matter.
Modes of teaching and learning	4 hours per week lectures, 3 hours per week exercises, 1 hour per week practical lab courses and self-study.
Prerequisites	Knowledge of physics at basic A-level is 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 written exam of 180 minutes and an ungraded portfolio of 20 hours. A bonus to the written exam is the completion of 15 hours of exercises.
Credit points and grades	9 credit points can be earned by the module. The module grade is the unweighted mean of the grades of the assessments with the following regulation: An individual examination is only graded as "passed" or "failed" (ungraded examination). The ungraded examination graded "pass" is not included in the further grading; the ungraded examination graded "fail" is included in the further grading with the grade "insufficient" (5.0).
Frequency	The module is offered every academic year beginning in the winter semester.
Workload	The total effort is 270 hours.
Duration	The module takes two semesters.