

Module name	Physics
Module number	Eul-MT-C-Ph, Eul-RES-C-Ph
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 thermodynamics, optics and structure of matter.
Modes of teaching and learning	2 hours per week lectures, 2 hours per week exercises 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 programmes Mechatronics and Renewable Energy Systems. 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 90 minutes. A bonus to the written exam is the completion of 15 hours of exercise.
Credit points and grades	5 credit points can be earned 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 150 hours.
Duration	The module takes one semester.