

Module Name	Mobile and Direct Drive Systems
Module Number	Eul-ET-E-MobDA
Responsible Lecturer	Prof. Dr.-Ing. Wilfried Hofmann wilfried.hofmann@tu-dresden.de
Qualification Objectives	After completing the module, students are capable of professionally selecting, designing, and optimizing drive trains for mobile applications as well as direct drive systems.
Contents	The module covers Electric Vehicle and Traction Drives, Direct Drives, and Magnetic Levitation Technology.
Teaching and Learning Forms	4 hours per week of lectures, 1 hour per week of exercises, 1 hour per week of practical lab courses, and self-study.
Prerequisites for Participation	The competencies to be acquired in the modules Electrical Machines and Electrical Drives are required.
Usability	The module is an elective module from the elective area "Competence Deepening" according to § 6 paragraph 3 of the Study Regulations (SO) and § 33 paragraph 4 of the Examination Regulations (PO) of the main study program in the field of Electrical Power Engineering 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 non-public oral examination as an individual examination lasting 45 minutes.
Credit Points and Grades	7 credit points can be earned through the module. The module grade corresponds to the grade of the examination performance.
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.