COURSE DETAIL

ELECTRIC VEHICLE TECHNOLOGIES AND APPLICATIONS
Country Germany
Host Institution Technical University Berlin
Program(s) Technical University Berlin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mechanical Engineering Electrical Engineering
UCEAP Course Number 119
UCEAP Course Suffix
UCEAP Official Title ELECTRIC VEHICLE TECHNOLOGIES AND APPLICATIONS
UCEAP Transcript Title ELECTRIC VEHICLES
UCEAP Quarter Units 8.50
UCEAP Semester Units 5.70

Course Description
This course gives students a basic insight into different components relevant to electric mobility, including their basic function and relevant design parameters. Secondly, a system based holistic approach is taught, considering drive train concepts, storage systems and charging technologies. The lecture covers the following topics: Introduction to electric mobility, Drivetrain concepts (HEV, BEV, FCV) and fundamentals of electric motors in electric vehicles, Storage systems (SuperCap, Fuel Cell, Battery), Charging strategies and technologies (for passenger vehicles, trucks and buses), and Auxiliaries and their influence on energy consumption.

Language(s) of Instruction
English

Host Institution Course Number
3535 L 023

Host Institution Course Title
ELECTRIC VEHICLE TECHNOLOGIES AND APPLICATIONS

Host Institution Course Details
http://www.lsf.tu-berlin.de/qisserver/servlet/de.his.servlet.RequestDispatcherS...

Host Institution Campus
FAKULTÄT V VERKEHRS- UND MASCHIENENSYSTEME

Host Institution Faculty

Host Institution Degree

Host Institution Department
Maschinenkonstruktion und Systemtechnik

Course Last Reviewed
2018-2019

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