

DIM-M2S-525 E-Drive

Syllabus

1. Propulsion systems: evolving from traditional systems to new technologies
 - a) Thermal engines
 - b) Hybrid technologies
 - c) High efficiency lubrication
 - d) Advanced technologies
2. Component modifications in EV vs conventional vehicles
 - a) Transmission systems
 - b) Central engine vs. in-wheel electric motors
3. Batteries
 - a) Types of batteries
 - b) Auxiliar systems
 - c) Other energy storage systems
4. Hydrogen cells
 - a) Fundamentals
 - b) Vehicle storage
 - c) Supply network
5. Energy supply in trains
 - a) Pantograph, catenary
 - b) Charging modalities: AC/DC, low/high power