

## Lista temelor pentru specializarea: **Electric, Hybrid and Autonomous Vehicles**

Anul academic 2025 – 2026

| Functie        | Nume si prenume           | Tema   | Cod     |
|----------------|---------------------------|--|---------|
| Conf. dr. ing. | Gabriel Cătălin MARINESCU | Vehicle fault diagnosis through vibration analysis   | AHEA004 |
|                |                           | Manufacturing processes for electric vehicle batteries   | AHEA005 |
|                |                           | Diagnostic methods for safety systems in hybrid and electric vehicles                            | AHEA006 |
|                |                           | Communication protocols in EV on-board diagnostics   | AHEA007 |
|                | Laurențiu Daniel RACILĂ   | Sistem de monitorizare in timp real a parametrilor energetici la bateriile vehiculelor electrice | AHEA008 |
|                |                           | Convertoare de putere utilizate in vehiculele electrice si hibride                               | AHEA009 |
|                |                           | Transmisii utilizate in vehiculele electrice si hibride  | AHEA010 |
|                | Lucian Matei              | Enabling technologies and system architectures for Autonomous Vehicles                           | AHEA011 |
|                |                           | Kinematic bicycle model for low-speed regime   | AHEA012 |
|                | Mihaela Liana BOGDAN      | The study of the mechanical vibrations for a vehicle using models with many degrees of liberty   | AHEA013 |
| Prof. dr. ing. | Cristian Petre COPILUȘI   | Optimization of the mechanical vibrations of vehicle using models with many degrees of liberty   | AHEA014 |
|                |                           | Command and control system for an electric vehicle   | AHEA001 |
|                | Dragos TUTUNEA            | Termoelectric generation for internal combustion engine waste heat recovery                      | AHEA002 |
|                |                           | Thermal management system in an internal combustion engine                                       | AHEA003 |