



## Centre of Competence in Automotive Mechatronics Internship Modules for Engineering students

### List of student specific modules

- M1. Autonomous park assist system
- M2. Supplemental Restraint Systems
- M3. Keyless Entry system
- M4. Adaptive Suspension system
- M5. Adaptive Brake Regulation (ABR)
- M6. Automatic Rain / Light Sensor system
- M7. Tire Pressure Monitoring System (TPMS)
- M8. Vehicle to Vehicle Communication
- M9. Electronic Fuel System
- M10. Exhaust Gas Recirculation System
- M11. Climate Conditioning for Passenger Comfort
- M12. Energy Management for ECO

### Common modules

#### Week-1

- Orientation on fundamentals of automotive Mechatronics
  - Hands on sessions – software skills

#### Week-2

- Hands on sessions (hardware) Automotive aggregates

#### Week-3

- Practical sessions on Automotive Systems with Mercedes and Ford Cars

#### Week-4

- Discussions, report writing, digital poster and evaluation

***Prerequisites:*** Fundamentals of mechatronics systems, sensors, actuators and associated hardware systems

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