Advanced Driver Assistance Systems (ADAS) Fundamentals

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Learning Made Simple, Visual, and Interactive

The THORS *Advanced Driver Assistance Systems (ADAS) Fundamentals* course introduces the learner to ADAS components, such as sensors, Electronic Control Units (ECUs), hardware accelerators, Human Machine Interfaces (HMIs), actuators, communication modules, Inertial Measurement Units (IMUs), and a Global Positioning System (GPS) module. This course also provides interactive learning on the ADAS autonomy levels, architecture, software layers, Operational Design Domain (ODD), and safety and security regulations.

Credit Hours **2**

Learning Objectives

- Identify the components of ADAS and their functions.
- List the communication modules used inside ADAS.
- Recall the five different autonomy levels in vehicles.
- Explain the different layers in ADAS architecture.
- Understand the concept of Operational Design Domain (ODD) within ADAS.
- Elaborate on functional safety, Safety of the Intended Functionality (SOTIF), and cybersecurity in ADAS.

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