

# Branch: Mechanical Engineering



**Code:** AUTENG

**Option:** Automobile engineering

**Level:** Master

**Prerequisites:**

**Opportunities:**

As a graduate, a wide variety of careers will be open to you in all areas of the automotive and motor vehicle industry, as well as in associated manufacturing and supply companies. In addition, automotive engineers have interesting career opportunities in the following areas: In universities and research institutes, with government agencies, in the service sector.

**Description:**

Ladies and Gentlemen: Start your engines! Are vehicles your passion? Then study automotive engineering and learn all about future technologies such as electric mobility or autonomous driving and develop your visions of the mobility of the future.

What does this degree program consist of?

In the interdisciplinary Automotive Engineering program, you will prepare yourself to help shape the mobility of tomorrow. Due to political, ecological and economic conditions, electrified vehicles with increasingly comprehensive driver assistance systems will be increasingly developed and produced in the future. For this, in-depth knowledge at the interface between "classical" automotive engineering, electrical engineering and computer science is

indispensable. The range of modules offered by the degree program offers you a rich choice of specialization in the most diverse areas of automotive engineering, but also sharpens your view of the overall vehicle system. You can develop your English language skills, which are essential for working in an increasingly international industry, by choosing from the growing range of English language modules.

**Quality and competences:**

Graduates of the Master's program in automotive engineering

Know the specific boundary conditions of the vehicle, can independently deduce the automotive requirements and thus identify the decisive development objectives, Have acquired a holistic understanding of the system and are therefore able to analyze and evaluate the effects of parameter and component variations on the whole vehicle,

Have a strong mathematical-physical understanding, which also qualifies them to model complex components and systems and to simulate and evaluate their behavior, are able to design and dimension vehicle components in accordance with defined objectives and requirements and within the given technical, economic, legal and social boundary conditions.

With the knowledge thus acquired, graduates are able to solve scientific and application-oriented problems in the context of modern automotive development.