

# Automotive Engineering

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Course Code:

ME 484

Course Type:

Area Elective

Credits:

3

Theoric:

3

Practice:

0

Laboratory Hour:

0

ECTS:

5

Prerequisite Courses:

Dynamics [1]

Machine Elements I [2]

Course Language:

English

Course Content:

Components of the automobile. Motion and modeling of the vehicle. Maximum speed and acceleration calculations. Wheels and tires. Brake systems and braking performance. Suspension systems and suspension geometry. Steering systems and steering geometry. Aerodynamic drag coefficient and its effect on vehicle performance