

Vehicle Dynamics

Course Code:

ME 455

Course Type:

Area Elective

Credits:

3

Theoric:

3

Practice:

0

Laboratory Hour:

0

ECTS:

5

Prerequisite Courses:

Dynamics [1]

Course Language:

English

Course Content:

Dynamics of motor vehicles. Static and dynamic properties of pneumatic tires. Mechanical models of single and double-track vehicles. Directional response and stability in small disturbance maneuvers. The closed-loop driving process. Behavior of the motor vehicle in large perturbation maneuvers. Ride phenomena treated as a random process.