

# Mechanisms and Applications

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Course Code:

ME 452

Course Type:

Area Elective

Credits:

3

Theoric:

3

Practice:

0

Laboratory Hour:

0

ECTS:

5

Prerequisite Courses:

Dynamics [1]

Course Language:

English

Course Content:

Introduction to kinematics and dynamics of rigid bodies. Classification of mechanisms. Basic concepts such as kinematic chain, degree of freedom, joints, and links. Graphical and analytical analysis of the kinematics of planar mechanisms. Kinematics of gear trains. Kinematics of Cam-Follower systems. Introduction to force analysis of planar mechanisms.