COURSE DETAIL

MULTIBODY DYNAMICS
Country Ireland
Host Institution Trinity College Dublin
Program(s) Trinity College Dublin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mechanical Engineering
UCEAP Course Number 107
UCEAP Course Suffix
UCEAP Official Title MULTIBODY DYNAMICS
UCEAP Transcript Title MULTIBODY DYNAMICS
UCEAP Quarter Units 4.00
UCEAP Semester Units 2.70

Course Description
This course addresses kinematics and dynamics, and is focused on applications in biomechanics. It reviews the fundamental matrix algebra required for kinematics and dynamics analysis and computations, introduces three-dimensional kinematics and dynamics, and covers the theory and procedures for modelling systems of rigid bodies connected by kinematic joints. The course also considers applications to human body modeling for gait and impact analysis, vehicle dynamics, and robotics.

Language(s) of Instruction
English

Host Institution Course Number
MEU44B17

Host Institution Course Title
MULTIBODY DYNAMICS

Host Institution Course Details

Host Institution Campus
Trinity College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department
Enginnering (Mechanical)

Course Last Reviewed

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