COURSE DETAIL

AERODYNAMICS
Country Singapore
Host Institution National University of Singapore
Program(s) National University of Singapore
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mechanical Engineering
UCEAP Course Number 131
UCEAP Course Suffix
UCEAP Official Title AERODYNAMICS
UCEAP Transcript Title AERODYNAMICS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This upper division course introduces students to the basic concepts, theories, and applications in aerodynamics. Major topics are: Characteristics and parameters for airfoil and wing aerodynamics; Incompressible flow past thin airfoils and finite-span wings; Aerodynamic design considerations; Compressible subsonic, transonic and supersonic flows past airfoils and supersonic flow past thin wings. The course is for students who are interested in aerodynamics, especially those who intend to work in the aviation industry or those who intend to conduct R & D work in the aerodynamics area. The course requires students to take prerequisites.

Language(s) of Instruction
English

Host Institution Course Number
ME4231

Host Institution Course Title
AERODYNAMICS

Host Institution Course Details
https://nusmods.com/courses/ME4231/aerodynamics

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mechanical Engineering

Course Last Reviewed
2024-2025

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