COURSE DETAIL

AIRCRAFT STRUCTURES
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 144
UCEAP Course Suffix
UCEAP Official Title AIRCRAFT STRUCTURES
UCEAP Transcript Title AIRCRAFT STRUCTURES
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course covers torsion of open and closed non-circular thin-walled sections; bending of unsymmetric thin-walled beams; idealized beams; multi-cell torque boxes and beams; tapered beams; introduction to mechanics of fiber-reinforced composites; classical lamination theory; failure theories for composites. This course is intended for students who are interested in the design and analysis of thin-walled structures, especially aircraft structures.

Language(s) of Instruction
English

Host Institution Course Number
ME4212

Host Institution Course Title
AIRCRAFT STRUCTURES

Host Institution Course Details
https://nusmods.com/courses/ME4212/aircraft-structures

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mechanical Engineering

Course Last Reviewed
2024-2025

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