

# 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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