

## Vehicle Structures(2.0 credits)

Code	: 10256
Course Type	: Specialized Courses
Class Format	: Lecture
Course Name	: Automotive Engineering Automotive Engineering
Starts 1	: 2 Spring Semester 2 Spring Semester
Elective/Compulsory	: Compulsory Compulsory
Lecturer	: Part-time Faculty

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### •Course Purpose

In this course, students will learn about vehicle structures.

Through the course, students will develop an understanding of the structure and mechanism of vehicle body, chassis, and power train.

### •Prerequisite Subjects

Thermodynamics

### •Course Topics

1. Design and Body

\*Product Planning

\*Body

\*Equipment

2. Chassis

\*Suspension

\*Steering

\*Brake

3. Power Train

\*Engine

\*Electric Propulsion

\*Drive Train

You are supposed to review each lecture by reading textbooks outside the course hours.

### •Textbook

Printed handouts will be provided.

### •Additional Reading

Automotive Engineering Fundamentals, SAE

### •Grade Assessment

Students must obtain a letter grade of C or above to pass the course. Letter grades are assigned based on the percentages: S:100-90 A:89-80 B:79-70 C:69-60 F:59-0.

Grades will be based on class participation and reports for the level of understanding of the topics listed in the Course topics.

30% for attendance

30% for assignments

40% for final report

### •Notes

No other specific requirements

**•Contacting Faculty**

Students can ask questions at any time during classes.

Questions during off-class hours can be asked via e-mail: [takimotof@nuem.nagoya-u.ac.jp](mailto:takimotof@nuem.nagoya-u.ac.jp)

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