| Akashi College | Year | 2023 | Course <br> Title | Advanced Strength of <br> Materials |
| :--- | :--- | :--- | :--- | :--- |
| Course Information | Course Category | Specialized / Elective |  |  |
| Course Code | 5020 | Credits | Academic Credit: 2 |  |
| Class Format | Lecture | Student Grade | Adv. 1st |  |
| Department | Mechanical and Electronic System <br> Engineering | Classes per Week | 2 |  |
| Term | Second Semester |  |  |  |
| Textbook and/or <br> Teaching Materials |  |  |  |  |
| Instructor | MORISHITA Tomohiro |  |  |  |

Course Objectives

1) Systematically understand the methods for solving stress, strain, and displacement in a multiaxial stress state and can apply them to basic problems.
2) Understand the basic issues related to flat plate bending problems, and can compare and examine one-dimensional and twodimensional problems.
3) Understand the advanced issues related to stress, strain, and elastic moduli, and can use them to three-dimensionally examine various problems of strength of materials.
4) Understand the mechanical behaviors related to the elastoplasticity of materials and how to analyze them, and can apply them to intensity calculations.
5) Can explain the above matters to others.

## Rubric




