| Toyama College | Year | Course |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Course Information | Applied Physics I |  |  |
| Course Code | 0075 | Course Category | Specialized／Elective |
| Class Format | Lecture | Credits | School Credit： 1 |

## Assigned Department Objectives

## ディプロマポリシー 3

## Teaching Method

| Outline | Learning Objectives（Aim of Class）（Educational Objectives）A3，B1 Physical thinking is fostered by introducing <br> a mathematical description of physical phenomena，taking into account the continuity of contents up to the <br> second year．The purpose of the previous phase is to focus on dynamics and to deepen the theoretical and <br> practical understanding and application of the phenomena in nature．To develop the ability to explain the <br> phenomenon as a tool for mathematics，a problem exercise and a small test are carried out． |
| :--- | :--- |
| Style | Lectures by teachers alone are conducted． |
| Notice | The portfolio is evaluated as 20\％，and the test is evaluated as $80 \%$ ．The evaluation of the test is the average <br> of the evaluation of the interim and the end of the study．A person who has a rating of less than 60 points <br> may be subjected to an approval test by a request．As the result of the approval test，the evaluation is made <br> to be 60 points in the person who the mastery of the unit is recognized． |

## Characteristics of Class／Division in Learning



|  | 8th | Midterm exam |  |  | Can solve range of dy motion and | blem by <br> s, focus <br> onserva | on the basic e equation of of energy. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 9th | Mechanics of a point system : Momentum conservation law |  |  | Can solve collision problems by using the momentum conservation law on multi-system problems. |  |  |
|  | 10th | Mechanics of a point system : Equation of motion of rotation |  |  | Can derive an equation of motion for a rotational motion introducing angular momentum |  |  |
|  | 11th | Mechanics of a point system : Problem exercise |  |  | Can solve problems centered on the preservation of momentum. |  |  |
|  | 12th | Rigid Mechanics : Equation of motion of a rigid body |  |  | Can derive the equation of motion of the rotation when the rigid body rotates by extending the equation of motion of the rotation of the quality point system. |  |  |
|  | 13th | Rigid Mechanics : Moment of inertia |  |  | Can calculate the moment of inertia according to the shape of the rigid body. |  |  |
|  | 14th | Rigid Mechanics: Rigid body exercise |  |  | Can solve the problem of describing the motion equation of the center of mass and the equation of motion of the rotation. |  |  |
|  | 15th | Final exam |  |  | Can solve problems related to quality point system and rigid body. |  |  |
|  | 16th | Return of answer sheets, explanation, class questionnaire, etc. |  |  | Evaluation and confirmation |  |  |
| Evaluation Method and Weight (\%) |  |  |  |  |  |  |  |
|  | Examination | Presentation | Mutual Evaluations between students | Behavior | Portfolio | Other | Total |
| Subtotal | 80 | 0 | 0 | 0 | 20 | 0 | 100 |
| Basic Ability | 80 | 0 | 0 | 0 | 20 | 0 | 100 |
| Technical Ability | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Interdisciplinar y Ability | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

