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|---|---|------|--|------------------------|---|--|
| Tsuyama College   |   | Year | 2021   |                        | Course Title  | General Aspects of Engineering I   |
| Course Information  |   |      |  |                        |   |  |
| Course Code   | 0003  |      | Course Category  | Specialized / Elective |   |  |
| Class Format  | Lecture   |      | Credits  | Academic Credit: 2     |   |  |
| Department  | Advanced Electronics and Information System Engineering Course  |      | Student Grade  | Adv. 1st               |   |  |
| Term  | Intensive   |      | Classes per Week   |                        |   |  |
| Textbook and/or Teaching Materials  | Textbook: As requested by the student   |      |  |                        |   |  |
| Instructor  | TERAMOTO Takayuki   |      |  |                        |   |  |
| Course Objectives   |   |      |  |                        |   |  |
| Learning purposes : (1) When students from other educational institutions wish to enroll in a JABEE-compliant technical education program, they can make up the credits they have earned prior to enrollment that cannot be approved as courses at the school.<br>(2) To supplement the specialized knowledge and abilities of students who have entered a major that differs from their original major from other educational institutions, and to promote effective learning in the major course. |   |      |  |                        |   |  |
| Course Objectives :<br>1. To deepen the basic knowledge and skills related to the major.<br>2. To be able to use the knowledge obtained for study and research in the major.  |   |      |  |                        |   |  |
| Rubric  |   |      |  |                        |   |  |
|   | Excellent   |      | Good   |                        | Acceptable  | Not acceptable   |
| Achievement 1   | To be able to systematically understand the basic knowledge in a specific academic field of study and to apply engineering skills to problems and issues.   |      | To be able to systematically understand the basic knowledge of a specific discipline and to apply engineering skills to problems and issues. |                        | The student will be able to apply basic knowledge and engineering skills in a specific discipline to problems and issues. | Cannot apply basic knowledge and engineering skills in a specific discipline to a problem. |
| Achievement 2   | To be able to tackle issues and problems by integrating the various knowledge of specialized engineering that has been learned so far, and to consider the impact of knowledge on society   |      | To be able to integrate and develop the knowledge of the specialized subjects studied so far and to apply it to problems and issues.         |                        | To be able to apply the knowledge of the specialized subjects studied so far to problems and issues.                      | Cannot apply the knowledge of the specialized subject studied so far to problems.          |
| Assigned Department Objectives  |   |      |  |                        |   |  |
| Teaching Method   |   |      |  |                        |   |  |
| Outline   | General or Specialized : Specialized<br><br>Field of learning : Common and basic natural sciences<br><br>Foundational academic disciplines : Engineering/Electrical and Electronic Engineering/Electronic Devices and Equipment<br><br>Relationship with Educational Objectives :This class is equivalent to "(1) Cultivate human creative talent, rich in practical abilities".<br><br>Relationship with JABEE programs :The main goals of learning / education in this class are "(A)Deepening of basic knowledge of technology, A-2", also "A-1" is involved.<br><br>Course outline :This class is designed for students who entered the major from other educational institutions for the following purposes. This course does not count as a credit toward completion of the major.<br>(1) In order for students from other educational institutions to become enrolled in JABEE-compliant technical education programs, all credits earned prior to enrollment will be reviewed for content equivalence with courses offered by the school. At this time, credits that cannot be approved as JABEE courses will be matched to JABEE courses.<br>(2) Courses are designed to supplement the specialized knowledge and abilities of students who have enrolled in a major that differs from their original major from other educational institutions in order to effectively advance their studies in the major course. The content of the courses will be determined in consideration of the departments and courses taken before admission. |      |  |                        |   |  |
| Style   | Course method : The content of study will be determined according to the student's educational institution and past study. Since the classes are one-on-one, students' basic academic skills and level of understanding will be checked as we proceed. In order to deepen their understanding, students will be required to practice problems and write reports to acquire comprehensive skills.<br><br>Grade evaluation method : Adopt an appropriate evaluation method according to the student and content.  |      |  |                        |   |  |

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| Notice | <p>Precautions on the enrollment : Students who have entered the major from other educational institutions and who fall under the categories (1) and (2) described in the course outline must take this course. This course does not count as a credit toward completion of the major. In addition, this course is a "subject requiring study outside class hours. A total of 45 hours of study is required per credit, including both class time and study outside class time. Follow the instructions of the instructor regarding study outside of class hours.</p> <p>Course advice : This subject is the most important main subject in the major. Therefore, students are expected to take the initiative in all aspects and do their best. In addition, in the second year, when students receive a bachelor's degree from the National Institution for Academic Degrees and University Evaluation (NIAD), they are required to submit a "Master's Course Plan" and a "Summary of the Results of the Master's Course". In addition to the above, it is necessary for the students to proceed with their research activities keeping in mind that the contents of the special research will be the basis for all of these. In addition, students are required to submit a research record at the end of the first and second semesters.</p> <p>Foundational subjects : All subjects</p> <p>Related subjects : General subjects to be studied in the major</p> <p>Attendance advice : This subject is the most important main subject in the major. Therefore, students are expected to take the initiative in all aspects and do their best. In addition, in the second year, when students receive a bachelor's degree from the National Institution for Academic Degrees and University Evaluation (NIAD), they are required to submit a "Master's Course Plan" and a "Summary of the Results of the Master's Course". In addition to the above, it is necessary for the students to proceed with their research activities keeping in mind that the contents of the special research will be the basis for all of these. In addition, students are required to submit a research record at the end of the first and second semesters.</p> |  |  |
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#### Characteristics of Class / Division in Learning

|  |                                       |   |  |
|--|---------------------------------------|---|--|
| <input type="checkbox"/> Active Learning | <input type="checkbox"/> Aided by ICT | <input type="checkbox"/> Applicable to Remote Class | <input type="checkbox"/> Instructor Professionally Experienced |
|--|---------------------------------------|---|--|

#### Course Plan

|              |             |      | Theme   | Goals                          |
|--------------|-------------|------|---|--------------------------------|
| 1st Semester | 1st Quarter | 1st  | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
|              |             | 2nd  | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
|              |             | 3rd  | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
|              |             | 4th  | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
|              |             | 5th  | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
|              |             | 6th  | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
|              |             | 7th  | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
|              |             | 8th  | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
|              | 2nd Quarter | 9th  | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
|              |             | 10th | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
|              |             | 11th | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
|              |             | 12th | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
|              |             | 13th | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
|              |             | 14th | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
|              |             | 15th | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
|              |             | 16th | The course will be offered in specialized areas that need to be supplemented, if necessary, after interviewing the student. | Set content-appropriate goals. |
| 2nd Semester | 3rd Quarter | 1st  |   |                                |
|              |             | 2nd  |   |                                |
|              |             | 3rd  |   |                                |

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|--|----------------|------|--|--|
|  |                | 4th  |  |  |
|  |                | 5th  |  |  |
|  |                | 6th  |  |  |
|  |                | 7th  |  |  |
|  |                | 8th  |  |  |
|  | 4th<br>Quarter | 9th  |  |  |
|  |                | 10th |  |  |
|  |                | 11th |  |  |
|  |                | 12th |  |  |
|  |                | 13th |  |  |
|  |                | 14th |  |  |
|  |                | 15th |  |  |
|  |                | 16th |  |  |

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| Evaluation Method and Weight (%) |  |  |  |  |  |  |  |
|----------------------------------|--|--|--|--|--|--|--|

|                            | Examination | Presentation | Mutual<br>Evaluations<br>between<br>students | Behavior | Portfolio | Other | Total |
|----------------------------|-------------|--------------|--|----------|-----------|-------|-------|
| Subtotal                   | 0           | 0            | 0  | 0        | 0         | 100   | 100   |
| Basic<br>Proficiency       | 0           | 0            | 0  | 0        | 0         | 0     | 0     |
| Specialized<br>Proficiency | 0           | 0            | 0  | 0        | 0         | 100   | 100   |
| Cross Area<br>Proficiency  | 0           | 0            | 0  | 0        | 0         | 0     | 0     |