

Curriculum Policy of Advanced Engineering Course

We have a balanced curriculum based on the following policies in order to make students acquire the knowledge and skills that our diploma policy requires them to get.

Organization of Curriculum

(1) Production Engineering Program

- A Fundamental Scientific Knowledge : We offer lectures and seminars in various subjects such as mathematics and natural science related to mechanical and material engineering.
- B Specialized Knowledge : We offer lectures and seminars in various specialized subjects in which students can acquire a broad technical knowledge in mechanical and material engineering systematically, so that students can obtain creative ability to develop technology and the ability to judge facts or phenomena objects synthetically. Also, in mechanical course, these subjects include mechanics of materials, mechanical design, fluid dynamics, thermodynamics, control engineering and others, in material course, include metal material, inorganic material, polymer material, composite material and others.
- C Problem-solving Ability : We offer seminar and experiment-type subjects and Graduation Thesis Research so that students can get problem-solving ability and self-learning ability required to be competent engineers.
- D Culture : We offer various subjects of liberal arts and social science so that students can get intellectual culture with ethical and environment-conscious viewpoints.
- E Communication Skill : We offer subjects for students to acquire effective writing ability in Japanese and presentation skills. In addition, we offer lectures and seminars in English subjects so that students in every grade can develop their command of English.

(2) Applied Chemistry and Biotechnology Program

- A Fundamental Scientific Knowledge : We offer lectures and seminars in various subjects such as mathematics, natural science and information technology related to chemistry and biotechnology.
- B Specialized Knowledge : We offer lectures and seminars in various specialized subjects in which students can acquire a broad technical knowledge in chemistry and biotechnology systematically, so that students can obtain creative ability to develop technology and the

ability to judge facts or phenomena objects synthetically. Also, these subjects include organic chemistry, inorganic chemistry, biochemistry, chemical engineering, and quantum chemistry.

- C Problem-solving Ability : We offer seminar and experiment-type subjects and Graduation Thesis Research so that students can get problem-solving ability and self-learning ability required to be competent engineers.
- D Culture : We offer various subjects of liberal arts and social science so that students can get intellectual culture with ethical and environment-conscious viewpoints.
- E Communication Skill : We offer subjects for students to acquire effective writing ability in Japanese and presentation skills. In addition, we offer lectures and seminars in English subjects so that students in every grade can develop their command of English.

(3) Electronic Engineering Program

- A Fundamental Scientific Knowledge : We offer lectures and seminars in various subjects such as mathematics and natural science related to electrical, electronic, and information engineering.
- B Specialized Knowledge : We offer lectures and seminars in various specialized subjects in which students can acquire a broad technical knowledge in electrical, electronic, and information engineering systematically, so that students can obtain creative ability to develop technology and the ability to judge facts or phenomena objects synthetically. Also, these subjects include high-voltage engineering, electronic property, electronic engineering, electronic circuit, and artificial intelligence.
- C Problem-solving Ability : We offer seminar and experiment-type subjects and Graduation Thesis Research so that students can get problem-solving ability and self-learning ability required to be competent engineers.
- D Culture : We offer various subjects of liberal arts and social science so that students can get intellectual culture with ethical and environment-conscious viewpoints.
- E Communication Skill : We offer subjects for students to acquire effective writing ability in Japanese and presentation skills. In addition, we offer lectures and seminars in English subjects so that students in every grade can develop their command of English.

Implementation of Curriculum

- The achievement goal, the course outline and the achievement evaluation of each subject are shown in the syllabus of each subject.

- The evaluation of a student's achievement is done fairly and strictly based on the evaluation policy in the syllabus under the following standards.

Lectures and seminars are evaluated in terms of achievements in targets by means of examinations, activities in the lessons, and reports.

Subjects of experiment are evaluated in terms of achievements in targets by means of reports and presentations.

Graduation thesis researches are evaluated in terms of achievements in targets by means of thesis, presentation, and activities.

- Grades are given in figures as 100 marks as perfect score. Credits are granted if the score is 60 marks or above. Standard of grades are as follows.

A	80 marks or above
B	70 marks or above and less than 80
C	60 marks or above and less than 70
Failure	less than 60 marks