

Department of Modern Mechanical Engineering

The Department of Modern Mechanical Engineering provides well-organized curricula to educate engineers and researchers who can design technologies that resolve many pressing issues of our time. The education program for undergraduate students includes fundamental lectures of mechanical engineering such as Mechanical Design, Fluid Dynamics, Thermodynamics, and Robotics as well as opportunity to engage directly in laboratories and research projects.

The Japanese unique, original, and successful experience of the “Monozukuri”, the spirit to create products, in our department is reflected on laboratories and projects that typically involve mechanical design, development and evaluation of technologies in various fields such as environment, medicine, robotics, transports, energy management, and production. We believe that the enhancement of concrete experience is facilitated by introducing interesting driving questions based on our student’s research interests and society needs.

Classes, laboratories and projects are not merely an opportunity to learn “technology development”, but also an opportunity for “human development” with a positive impact on motivation, teamwork, communication skills, and metacognition.

These curricula are conducted by experienced and dedicated faculty members to continuously produce talented engineers and researchers. Students who graduate from our department are able to respond quickly, effectively and imaginatively to the problems of today and the future society.

Required Group C Courses

Number of Minimum Credits		
Specialized Required Courses	Specialized Elective Required Courses	Specialized Elective Courses
6	22	22

- If you have earned more than 22 credits in IPSE Group C specialized elective required courses offered by the Department of Modern Mechanical Engineering, the excess credits can be appropriated to IPSE Group C specialized elective courses.

To register for Graduation Thesis A

- You must have completed all required Group A and B courses and have earned 40 credits from the specialized elective required courses and specialized elective courses. Here, it is noted that Seminar A, B, C and Engineering Practice A, B, C shall be included in the 40 credits mentioned above.

To register for Graduation Thesis B

- You must have completed Graduation Thesis A.