

# Faculty of Health Sciences

## Department of Nursing

Fostering the development of professionals capable of creating and providing nursing techniques that maximize the advantages of medical-engineering collaboration.

The Department of Nursing offers curricula that prepare student nurses for national licensing examinations, encouraging them to systematically develop their medical knowledge and skills to support people in need of nursing care while learning the fundamentals of nursing science. The wide scope of the engineering departments at HUS, and the promotion of medical engineering collaboration help students to obtain practical knowledge in engineering and information technology, including the development of ICT skills. The department seeks to produce nurses who are able to think and act independently, as well as to collaborate with others as these are indispensable skills for a team-centric approach to medical treatment based on wide-ranging skills developed to deal with the rapidly growing advanced medical technology.



## Department of Physical Therapy

Fostering the development of physical therapists capable of creating new rehabilitation standards.

The Department of Physical Therapy offers curricula to prepare students for the physical therapist (PT) national licensing examination. PTs are health care professionals who help to promote mobility and restore motor function impairment due to disability, injury or other factors. Their work enhances functional activity in daily life through physical methods such as therapeutic exercises and physical therapy as well as guidance on the improvement of living environments. The department aims to develop physical therapists with advanced skills and broad perspectives; PTs who are capable of playing active roles in clinical practice. This is facilitated by the extensive clinical experience of the department's faculty members, team-based medical education in collaboration with the Faculty of Health Sciences, and the utilization of advanced technologies developed by the Faculty of Engineering.



## Department of Prosthetics and Orthotics

Fostering the development of prosthetists and orthotists with expertise in medicine, engineering and welfare to support the lives of users.

The Department of Prosthetics and Orthotics, founded in 2006 as Japan's first training course for Prosthetics and Orthotics, became a department in 2012. It offers curricula to prepare students for the prosthetist and orthotist (PO) national licensing examinations and provides an ideal learning environment with some of the nation's most advanced facilities, including a 3D motion analysis system, helping students to develop fundamental knowledge and practical skills through comprehensive practices. Students can also take courses offered in collaboration with the Department of Physical Therapy, which is closely related to the work of prosthetists and orthotists, and other departments. Much attention is also given to knowledge of electrical engineering and electronic engineering as required for the development of sophisticated prostheses and orthotics. The department aims to develop prosthetists and orthotists capable of contributing to team-based medical practice with multiple perspectives in the fields of medicine, engineering and welfare.



## Department of Clinical Engineering

Preparing students for careers as clinical engineers, handling cutting-edge equipment through a wide range of course subjects in medicine and engineering.

The Department of Clinical Engineering seeks to develop technical experts and researchers capable of contributing to society. These efforts involve medical engineering collaborative education programs based on extensive technological assets and engineering knowledge acquired by HUS over a long period, and help students gain a clinical engineer (CE) qualification. The department offers curricula designed to teach students not only about medical practices, but also about engineering, with an awareness of R&D in the field of advanced medical equipment. Students are encouraged to develop problem-solving abilities as they conduct graduation research under the guidance of faculty members engaging in cutting-edge research programs, and to learn about the growing health care industry through their research activities.



## Department of Radiological Technology

Fostering the development of individuals with knowledge in medicine, science and engineering who can contribute to community-based medical care.

The Department of Radiological Technology is Hokkaido's first private university body with a mission to prepare students for the radiology technologist national licensing examination. Radiologic technologists are members of medical teams tasked with radiotherapy and imaging tests, such as X-ray photography and MRI examinations. The demand for highly skilled radiologic technologists is on the increase due to the progress of medical equipment and treatment methods. The department offers an early clinical exposure program from the first year to enhance students' awareness as medical professionals. It also collaborates with other departments to provide practical education on team medical care, and helps students develop management skills, so that they will be able to contribute to regional medicine as radiologic technologists.

