List of Major Subjects and Academic Advisors for 2024 Academic Year

*The major subjects and academic advisors may change as needed.

1) Field of Nursing

Department of Nursing

Course Title	Course Aims and Research Subject
	In the special research, students conduct research on the construction of evidence in nursing and its
Graduate Thesis of Health	social implementation and prepare a doctoral dissertation. In the process, students learn a series of
Care Integrated Sciences	dissertation writing processes, including selection of a research theme, review of previous research,
	planning of a research plan, experimentation and investigation, and discussion. In addition, students
SUGAMA Junko	learn the conscience and ethics as scientists, their attitude toward research, original ideas, and the
MURAYAMA Ryoko	nature of research through the preparation of their doctoral dissertations.
TAKEHARA Kimie	The major research topics are as follows:
	SUGAMA Junko
	1. Research on the establishment of evidence for the prevention and management of chronic
	wounds, skin injuries, and geriatric syndromes, and its social implementation
	2. Research on the development of evidence and its implementation for nursing interventions and
	clinical skills
	3. Research on the evaluation of nursing role and function in the interdisciplinary approach to the
	health care
	MURAYAMA Ryoko
	1. Research on the creation of evidence-based nursing technology and the construction of systems
	for social implementation
	2. Research on the development of educational programs including the development of teaching
	materials and human resource development for the dissemination of nursing technology and its social implementation
	TAKEHARA Kimie
	Research on the development and social implementation of diabetic foot ulcer preventive care and assessment technology using nursing science and engineering methods
	2. Research on a series or part of the process to create of advanced new nursing care by the clinical
	seeds and its social implementation (i.e., its widespread return to clinical field)
	Research on the working environment and education of nurses, and patient education

2) Field of Rehabilitation Sciences

Department of Rehabilitation Therapy Sciences

Course Title	Course Aims and Research Subject
	In this seminar, students will conduct research related to rehabilitation, the science of helping recover
Graduate Thesis of	the activities. In research on physical therapist education, we will examine educational methods for
Rehabilitation Therapy	training medical staff who can contribute to team medical care and have high teaching ability. This
Sciences	study also includes topics on the adequacy of clinical education and clinical training using Objective
	Structured Clinical Examination (OSCE) in physical therapists. This study also includes the topic of
KANADA Yoshikiyo	practical training in training instructors. Also, a new educational system that strengthens cooperation
SAKURAI Hiroaki	between university teachers and practical training instructors will be explained. Specifically, to
TERANISHI Toshio	standardize clinical skills, clinical skills will be practiced through simulated patients with stroke and
YAMADA Kouji	osteoarticular systems. In research on motor systems, we will research motor control, motor learning,
INAMOTO Yoko	and rehabilitation engineering. Specifically, we will conduct basic research in simulated patients and
ONOGI Keiko	clinical research in patients on postural control during movement, therapeutic learning, rehabilitation
TANABE Shigeo	robots, etc. Through advice for the thesis, the students will have the skills to present their findings at
TAKEDA Kotaro	academic conferences and academic journals in their specialized fields and disseminate information to
	society.
	KANADA Yoshikiyo
	We will conduct research on therapist education from the perspective of evidence-based medicine
	(EBM). In addition, research will be conducted on society, urban development, and community
	health. Specific research themes are listed below.
	1. Research on therapist education and treatment techniques
	2. Research on clinical practice guidance for therapists
	3. Research on student education, novice physical therapist education, and patient education
	4. Research on contribution to the community by therapists
	SAKURAI Hiroaki
	We will conduct research on the training of therapist educators with high technical skills, leadership
	skills, and teaching skills. Specific research themes are listed below.
	Research on the objective evaluation of therapist skills
	2. Research on training of practical training supervisors
	3. Research on cooperative educational systems between training schools and training facilities
	4. Research on standardization of treatment techniques for physical and occupational therapists
	5. Research on continuing education for postgraduate therapists

Course Title	Course Aims and Research Subject
	TERANISHI Toshio
Graduate Thesis of Rehabilitation Therapy Sciences	With the advancement of medical specialization and differentiation, problems that cannot be solved without the cooperation of professionals are occurring. In this special research, a doctoral thesis will be created using keywords such as activity, intervention, and behavior change. In the course, students will learn a series of a doctoral thesis writing processes, such as selecting a research theme, reviewing previous research, drafting a research plan, experimenting, and
KANADA Yoshikiyo	considering. In addition, through writing a doctoral thesis, students will learn how to conduct research, including the conscience of scientists, attitudes toward research, and creative ideas.
SAKURAI Hiroaki	Themes are summarized in the following four.
TERANISHI Toshio	Research on posture and movement of patients and healthcare workers.
YAMADA Kouji	2. Research on quantitative measurement of spasticity
INAMOTO Yoko	3. Research on fall prevention, fall risk evaluation and patient management.4. Research on time study and consequences of rehabilitation intervention.
ONOGI Keiko	4. Research on time study and consequences of tenaorination men vention.
TANABE Shigeo	YAMADA Kouji
TAKEDA Kotaro	Based on gross and histological knowledge and theory of skeletal muscle, bone, ligaments, tendons, and joints, based on morphological and structural observations regarding problems that occur in the rehabilitation treatment process in clinical practice, judgment of prognosis, etc. Research on the functional analysis that does not stay in range, and create a doctoral dissertation. Further, the present invention is similarly carried out in the biological control field of neural control and humoral control. In this process, students learn the attitude toward research as a scientist through a series of doctoral dissertation creation processes, such as devising research themes, clarifying the progress of prior research, drafting research plans, conducting experiments, and studying. 1. Research from a preventive medical point of view applied to humans from basic research using disease model animals. 2. Structural analysis methods such as bone morphometry and biochemical analysis of humoral factors. 3. Research on biological control mechanism by humoral factors represented by myokines.
	INAMOTO Yoko This course will conduct a research related to swallowing and dysphagia rehabilitation. Research goal is to elucidate the physiology of swallowing, to characterize the factors underlying dysphagia, and to elaborate the swallowing exercise using kinematic and/or kinetic analysis, such as videofluoroscopy, swallowing CT, and high resolution manometry. Specific research interests include the mechanism of airway protection during swallowing, mechanism of UES opening/relaxation, kinetic effect of swallowing maneuvers, tongue and pharyngeal strengthening exercise, and intensive dysphagia treatment. Focused areas: 1. Studies on the physiology of swallowing 2. Studies of the pathophysiology of dysphagia 3. Studies on the swallowing exercise and maneuvers

Course Title	Course Aims and Research Subject
Course Title Graduate Thesis of Rehabilitation Therapy Sciences KANADA Yoshikiyo SAKURAI Hiroaki TERANISHI Toshio YAMADA Kouji	Course Aims and Research Subject NOGI Keiko The seamless medical cooperation from the acute stage to the chronic stage is needed in the aging society. In this course, a doctoral dissertation will be created using the key words 'geriatric medicine'. Students will master writing processes of articles such as consideration of research theme, review of previous research, drafting a research plan, experiment, and discussion. And students will learn the conscience of scientists, the attitude toward research, the original ideas, and the way of research. Themes are grouped into the following three, 1. Research for deconditioning of elderly 2. Research for relationship of functional independence of patients and burden of caregivers 3. Research for dysphagia of patients with cognitive disorders ANABE Shigeo We will conduct research related to rehabilitation therapy science, especially rehabilitation engineering. Rehabilitation engineering is research field to develop practical devices and methods based on clinical problems and requests. The following are specific themes. 1. Studies on the rehabilitation robots 2. Studies on the development of motion analysis and treatment methods
INAMOTO Yoko ONOGI Keiko TANABE Shigeo TAKEDA Kotaro	
	TAKEDA Kotaro Based on instrumentation engineering, rehabilitation engineering, neuroscience, and cognitive science, the following studies on biomedical measurement, clinical evaluation, and intervention will be conducted. 1. Studies on the scalp electroencephalogram and surface electromyogram 2. Studies on the clinical evaluation and database 3. Studies on motion analysis 4. Studies on motor imagery