

Category (科目区分)	Specialized subjects / Motor Function System		
Course Title (授業科目名)	Neurosciennce		
Instructors (担当者名)	Kazuo Mishima	Academic Year (配当年次)	1,2
Required Course / Elective Course (必修/選択)	Elective Course	Credits (単位数)	2
Class Format (授業形態)	Lecture		
Schedule (開講期間)	To be announced by e-mail		
Class Date/Period (開講曜日・時間)	To be announced by e-mail		
Course Outline/ Course Objectives (授業の概要・到達目標)			
Purpose: To understand current clinical and basic knowledge in the field of peripheral and central nervous systems and advancement of medical techniques. Course Objectives: To be able to make a presentation on current clinical and basic advancement in the field of peripheral and central nervous systems.			
Course Planning (授業計画)			
	Course Outline/ Course Objectives (授業の概要及び到達目標) (Contents of Class) ((授業内容))	Instructor (担当教員名)	Department (講座名) Class Room [実施場所]
1	Spinal deformity: pathophysiology/diagnosis/treatment	Yuji Kasukawa	Orthopedic Surgery [North Clinical Building 2nd floor, conference room]
2	Lumbar spinal disease: pathophysiology/diagnosis/treatment	Yuji Kasukawa	
3	Trauma of extremities: pathophysiology/diagnosis/treatment	Koji Nozaka	
4	Cervical and thoracic spinal diseases: pathophysiology/diagnosis/treatment	Naohisa Miyakoshi	
5	Joint diseases: pathophysiology/diagnosis/treatment	Koji Nozaka	
6	Learn research methods and recent knowledge on brain anatomy, metabolism and biochemistry that are fundamental for understanding neurosurgery and brain functions and pathophysiology.	Takahiro Ono Yusuke Takahashi	Neurosurgery [Conference room, WEB]
7			
8			
9			
10	To understand the diagnosis and treatment of major psychiatric disorders. The neural basis of cognitive function, emotional and affective regulation, and sleep/wake regulation that support mental activity will be reviewed based on neurophysiology, molecular biology, and functional brain imaging data.	Kazuo Mishima Masahiro Takeshima Aya Imanishi	Neuropsychiatry [Reserch Building for Clinical Medicine]
11			
12			
13			
14			
15			
Grading Criteria (成績評価の基準と方法)			
The total of 45 hours, consisting of 30 hours of lectures in the seminar room and 15 hours of self-study, counts as one credit. The content of reports, etc. will be evaluated comprehensively.			

Contact Information (問い合わせ先(氏名, メールアドレス等))

Name: Kazuo Mishima / E-mail: mishima@med.akita-u.ac.jp

Comment (その他特記事項)

The dates for this course will be scheduled after taking this course to encourage attendance of adult graduate students.

Textbooks and reference papers will be suggested, if needed.

Students are expected to prepare for this course by reading the relevant protocols.