

Course	Physiological and Physical Human Sensing
Course No.	02RB211
Credits	2.0Credits
Grade	1, 2Year
Timetable	FallAB Thu3,4
Instructor	Masakazu Hirokawa
Course Overview	This course introduces various technologies for quantitative measurement of physical and physiological aspects of human such as nerve systems, cardiovascular system and motor function, through lectures and practicals.
Remarks	Students who are not belonging to the PhD program in Empowerment Informatics need the teacher's permission to register. Minimum number of participants: 3 Lectures are conducted in English.
Course Type	lectures and class e
Course Remarks	Lecture in English. A minimum of three students are required.
Relationship to EMP Educational Objectives	Interdisciplinary ability:Broad specialist knowledge and experience
Course Objectives	To understand measurement principles and limitations of various humans sensing methods.
Course Schedule	Topics: - Basics of human sensing. - Mechanical and morphological measurement. - Cardiovascular system. - Neuromuscular system. - Respiratory system. - Medical imaging technologies.
Graduating Methods and Criteria	The evaluation will be carried out as follows: - Practicals at each unit: 70% - Final report: 30%
Homework	
Textbook	1. 金井寛 他著, 生体計測学, コロナ社出版
References	
Office Hour	
Messages for Students	
Teaching Fellow / Teaching Assistant	
Keywords	