

Course	Physical Computing
Course No.	02RB239
Credits	2.0Credits
Grade	1, 2Year
Timetable	SprBC Mon3,4
Instructor	Masakazu Hirokawa
Course Overview	This course involves the concept of physical computing and key elements for sensing and controlling the physical world with information technology such as embedded system, sensors and actuators.
Remarks	The number of students is limited. Those who do not belong to the PhD program in Empowerment Informatics need the permission of the instructor to register. Minimum number of participants: 2 Lectures are conducted in English.
Course Type	lectures
Course Remarks	Lecture in English.
Relationship to EMP Educational Objectives	Interdisciplinary ability:Broad specialist knowledge and experience
Course Objectives	To understand the basics of physical computing. To understand system elements relevant to the concept of physical computing.
Course Schedule	Topics: - Basics of physical computing. - Basics of embedded system. - Sensors, actuators. - Timer, interruption. - Inter-processor communication. - Networking.
Graduating Methods and Criteria	The evaluation will be carried out as follows: - Practicals at each unit: 60% - System development: 40%
Homework	
Textbook	
References	
Office Hour	
Messages for Students	Bringing a laptop is recommended for practicals. (There are a few laptops for rent.)
Teaching Fellow / Teaching Assistant	
Keywords	