

Course	Communication Systems
Course No.	02RB241
Credits	2.0Credits
Grade	1, 2Year
Timetable	SprAB Tue3,4
Instructor	Koichi Mizutani
Course Overview	音響・光・電磁波を用いる電子計測で利用される変調・復調方式を含め、情報伝達手段としての電子通信方式について講義する。純電子的信号処理方式のほかに光変調素子、弾性表面波素子等を利用する方式にも言及する。
Remarks	Those who do not belong to the PhD program in The course is taught in even years.Empowerment Informatics need the permission of the instructor to register. Not open in 2017.
Course Type	lectures
Course Remarks	Open in an odd number year. Not allowed to overlap with 01CK402 Have basic knowledge concerning electric and electronic circuits and a communication engineering. Lecture in Japanese with English slides
Relationship to EMP Educational Objectives	Interdisciplinary ability:Broad specialist knowledge and experience
Course Objectives	The students will understand the base of modulation and demodulation (circuits) and the method of application for measurements.
Course Schedule	We discuss the communication systems (modulation and demodulation) as methods of information transmission and measurement. 1)Outline of communication systems (1) 2)Outline of communication systems (2) 3)Analog modulations and demodulations (1) 4)Analog modulations and demodulations (2) 5)Digital modulations and demodulations (1) 6)Digital modulations and demodulations (2) 7)Application for systems of sensor and measurements (1) 8)Application for systems of sensor and measurements (2) 9)Some topics 10)
Graduating Methods and Criteria	
Homework	
Textbook	To be announced in class
References	
Office Hour	
Messages for Students	
Teaching Fellow / Teaching Assistant	
Keywords	