

Course Coding(科目ナンバー)	Year/Semester/Term(年度・学期)	Faculty Offering Course(時間割所属・時間割コード)	Eligible Student Year(開講年次)	Credits(単位数)	Weekday and Period(曜日・時限)
RDM7-014-83-2	2025whole year	Graduate School of Medical Sciences (20150)	1, 2, 3, 4	2	others
Course Title(Theme)(科目名(講義題目))			Instructor(s)(担当教員)		
The Forefront of Clinical Oncology(C6)			OYA Natsuo, MUKASA Akitake, Yasunaga Jiyunichirou, MURAKAMI Ryuji, NOSAKA Kisato, YAMAMOTO Yutaka, Saitou Fumitaka, MOTOHARA Takeshi, IWANAGA Eisaku		
Goals with their ratio(学修成果とその割合)					
1.Advanced expert knowledge, skill and research capability ……70% 2.Profound inter-disciplinary knowledge ……10% 3.Global perspective and ability to take initiative action ……10% 4.Social leadership drive ……10%					
Type of Class(授業の形態)	Lecture				
Teaching Method(授業の方法)	Video lectures or e-learning programs may be considered for those who are regularly absent for unavoidable reasons.				
Course Goals(授業の目的)	In Lecture Series “Riron” : C6 The Forefront of Clinical Oncology II, you learn basic concepts and novel techniques in the most advanced clinical oncology, including (1) radiation oncology, (2) breast and endocrine oncology, (3) gynecological oncology, (4) neurooncology, (5) hematological oncology.				
Course Learning goals(学修目標)	【A level (A水準)】 You learn basic concepts and novel techniques in the most advanced clinical oncology, including (1) radiation oncology, (2) breast and endocrine oncology, (3) gynecological oncology, (4) neurooncology, (5) hematological oncology. 【C level (C水準)】				
Course Outline(授業の概要)	(1) The forefront of radiation oncology, especially the development in 3-D conformal external beam radiotherapy techniques is lectured. (2) The forefront of breast and endocrine oncology is lectured, especially regarding surgery, chemotherapy, and molecular target therapy for breast cancer and thyroid cancer. (3) The forefront of gynecological oncology, especially the recent development and therapeutic modalities, is explained, including brathytherapy, external beam radiotherapy and chemoradiotherapy for uterine cervical cancer. (4) The forefront of neurooncology is explained especially regarding the molecular biology in malignant brain tumors. (5) The forefront of hematological oncology is lectured especially regarding the mechanisms in tumor development and suppression.				
Details for Individual Classes(各回の授業内容)					
No.(回)	Date(月日)	Class Theme(授業テーマ)	Brief Outline of Class(内容概略)		
1		Natsuo Oya 【eJ-0】	“Radiation biology and physics”		
2		Natsuo Oya 【eJ-0】	“Stereotactic radiotherapy and intensity-modulated raidotherapy”		
3		Ryuji Murakami 【eJ-0】	“Image-guided radiotherapy and adaptive radiotherapy”		
4		Yutaka Yamamoto 【eJ-0】	“Biological features of breast cancer”		
5		Yutaka Yamamoto 【eJ-0】	“Paradigm shift in breast cancer treatment”		
6		Yutaka Yamamoto 【eJ-0】	“Molecular target therapy for breast cancer”		
7		Takeshi Motohara 【eJ-0】	“Epidemiology of gynecological malignancies”		
8		Takeshi Motohara 【eJ-0】	“Radiation therapy for gynecological malignancies”		
9		Fumitaka Saito 【eJ-0】	“Paradigm shift of the treatment for gynecological malignancies”		
10		Akitake Mukasa 【eJ-0】	“Character of brain tumor”		
11		Akitake Mukasa 【eJ-0】	“Brain tumor diagnosis”		
12		Akitake Mukasa 【eJ-0】	“Brain tumor therapy”		
13		Eisaku Iwanaga 【eJ-0】	“Hematological oncology I - leukocytes”		
14		Kisato Nosaka 【eJ-0】	“Hematological oncology II - lymphocytes”		
15		Jun-chirou Yasunaga 【eJ-0】	“Hematological oncology III - Hematological malignancies induced by viruses”		
Estimated out-of-class study time					
Required Textbook(テキスト)					
Reading List(参考文献)					
Enrollment Conditions(履修条件)					
Assessment Methods and Criteria(評価方法・基準)		Grading will be based on active class participation, paper summaries, or the final report. Grading will be based on the student's understanding of the course subject matter. The students' understanding will be evaluated on the basis of papers and quizzes related to the topics dealt with in class to be scored from 0 to 100.Final grades will be based on the average score of the papers and quizzes as well as participation in class discussions			
Language Used in Instruction(使用言語)		Japanese			
Textbook/Material		Japanese			

Language(教科書・資料の言語)	Japanese
Course Based on Practical Work Experience(実務経験を活かした授業)	Not applicable