Category （科目区分）	Specialized subjects ／ Cancer treatment system		
Course Title （授業科目名）	Oncology		
Instructors （担当者名）	Hiroyuki Shibata	Academic Year （配当年次）	1,2
Required Course ／ Elective Course （必修/選択）	Elective	Credits （単位数）	2
Class Format （授業形態）	Lecture, Exercise		
Schedule （開講期間）	Apr. 2024 – Sep. 2024(schedule details on request)		
Class Date/Period （開講曜日・時間）	Students will be contacted by e-mail after the course registration is completed.		

Course Outline/ Course Objectives（授業の概要・到達目標）

　Purpose of the class：The purpose of this course is to provide students with an overview of the pathogenesis and current state-of-the-art treatment of the most commonly affected tumors（cancer）, and to understand how to conduct research for the development of new treatment methods and for the solution of future problems.
　Goals of the class：The goal of this course is to understand the actual status of cancer diseases in Japan and to be able to explain the concepts on which the most advanced treatments are based.
　Outline of the class：See ″Course Outline ／ Course Objectives(Contents of Class)″

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	Outline of chest surgery	Kazuhiro Imai	Thoracic Surgery 〔Research Building for Clinical Medicine 3F〕
2	Lung cancer	Kazuhiro Imai	
3	Guideline of chest surgery	Kazuhiro Imai	
4	The course focuses on overview and prospects of cancers of the kidney, prostate, upper urinary tract and bladder, and testis, that are four major cancers in urologic oncology. Students are expercted to learn and understand the mechanism, epilology, diagnosis and moderan treatment of the four major urologic cancers.	Tomonori Habuchi	Department of Urology 〔conference room〕
5	The course focuses on biology, epidemiology, diagnosis and treatment of prostate cancer、Especially, sutdents are learn and understand the nature and molecular mechanisms of adrogen dependency and independency of prostate cancer. Furthermore, the course covers modern drug therapy of prostate cancer.	Shintaro Narita	
6	The course covers etiology, mechanism, diagnosis, and treatment of renal cell carcinoma. Especially, students are expected to learn the neovasculization and tumor immunology of renal cell carcinoma and its modern therapeutics and unsolved treatment problems.	Kazuyuki Numakura	
7	Viral hepatitis treatment aimed at the origin of liver cancer and	Takashi GOTO	Gastroenterology・Neurolog〔Gastroenterology・Neurolog Seminar room〕
8	Epidemiology and medical treatment of liver cancer	Shinichiro MINAMI	
9	Medical treatment of biliary tract cancer and pancreatic cancer	Mitsuru CHIBA	

10	Current Status of hepatocellular carcinoma and bile duct cancer	Junichi Arita	Gastroenterological Surgery 〔conference room at 1-6 ward〕
11	Current Status of pancreatic cancer	Junichi Arita	
12	Role of Surgical treatment on multidisciolinary approach for gastrointestinal cancer	Go Watanabe	
13	The molecular mechanisms of carcinogenesis	Hiroyuki Shibata	Dept. Clinical Oncol. 〔The 2nd Bild.., The Hall 2〕
14	Cancer Genome Diagnosis −A new era of molecular targeted agents−	Hiroyuki Shibata	
15	Molecular targeted agents −translational research−	Hiroyuki Shibata	

Grading Criteria 　（成績評価の基準と方法）

30 hours of lectures in the lecture room (laboratory) + 15 hours of self-study, 45 hours in total, will be one credit, and the evaluation will be made by comprehensively evaluating the attendance status and the contents of the submitted report.

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

Name： 　Hiroyuki Shibata 　 / E-mail： 　 hiroyuki@med.akita-u.ac.jp

Coment 　（その他特記事項）

Information about courses: If you cannot attend the training due to work, such as a graduate student who is a member of society, we will adjust the schedule.
Textbooks / References: Distribute materials as needed. Alternatively, specify the document.
Self-study content during self-study time: It is desirable to carry out preparatory learning according to the goals to be achieved and the content of the lesson.