Category （科目区分）	Specialized subjects / Cancer treatment system
Course Title （授業科目名）	Cancer treatment based on precision medicine

Instructors （担当者名）	Hiroyuki Shibata	**Academic Year** （配当年次）	All grades
Required Course / Elective Course （必修/選択）	Selective	**Credits** （単位数）	2

Class Format （授業形態）	Web class
Schedule （開講期間）	2025 April – 2026 March
Class Date/Period （開講曜日・時間）	On demand

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

Precision treatment for cancer patients is now expanded to many field of cancer treatment. It includes stereoraiotreatment, molecular targeted therapies, and robot surgery. Conbined treatments of these modalities should be known among cancer docters and care-givers.

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	Radiation physics	Manabu Hashimoto	Dept. Radiology
2	Radiation Biology	Manabu Hashimoto	Dept. Radiology
3	Radiotherapy -overview-	Manabu Hashimoto	Dept. Radiology
4	Radiotherapy -details 1-	Manabu Hashimoto	Dept. Radiology
5	Radiotherapy -basic and detail 2 -	Masamichi Toshima	Akita Kousei mRNA center
6	Detail 3. Radiation for breast cancer and uterine cancer	Fumio Nagashima	KyorinUniversity
7	Detail 4. Radiation for brain tumor and prostate cancer	Akira Anbai	Dept. Thoracic Surgery
8	Surgical treatment of lung cancer	Kazuhiro Imai	Dept. Gynecology
9	Chemotherapy for lung cancer	Makoto Maemondo	Iwate medical university
10	Treatment of breast cancer (cancer genome diagnosis)	Toshiaki Saeki	Saitama medical university
11	Nursing for cancer patients	Hiroko Komatsu	Keio University
12	Prostate Cancer	Shintaro Narita	Dept. Urology
13	Hospice care	Naoki Matsuo	Sotoasahikawa Clinic.
14	Chemotherapy for pancreas cancer	Koji Fukuda	Dept. Clinical Oncology
15	cancer patient supprt	Midori Akiyama	Dept. Nursing

Grading Criteria　（成績評価の基準と方法）

Submission of the report

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

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Comment　（その他特記事項）

Self education by using web classes