

Graduate School of Biomedical Science and Engineering

List of subjects in the Medical Physics Educational Program for Innovative Technology in Cancer

Category	Subject	Credit	Type
Required	Introduction for Cooperation in Biomedical Science and Engineering	2	Lecture
	Research and Development of Medical Devices	1	Lecture
	Advanced Course of Medical Device Clinical Research	1	Lecture
	General Research on Biomedical Science and Engineering I	2	Seminar
	General Research on Biomedical Science and Engineering II	8	Practical training
Required for QBSE (*1)	Radiation Physics for Biomedical Science and Engineering	2	Lecture
	Particle Therapy Physics	2	Lecture
	Physics and Engineering for Radiation Therapy	2	Lecture
Required for MBSE (*2)	Diagnostic Radiology for Biomedical Science and Engineering	2	Lecture
	Basic Physics for Diagnostic Radiology and Nuclear Medicine	2	Lecture
	Functional imaging and therapeutics in Biomedical Science and Engineering	2	Lecture
Elective	Physics for Biomedical Science and Engineering	2	Lecture
	Radiologic Anatomy for Biomedical Science and Engineering	1	Lecture
	Research planning for Biomedical Science and Engineering Research	1	Lecture
	Statistics for Biomedical Science and Engineering	1	Lecture
	Radiation Protection for Biomedical Science and Engineering	2	Lecture
	Information Programming Advanced Course	1	Lecture
	Nuclear Physics I for Biomedical Science and Engineering	2	Lecture
	Nuclear Physics II for Biomedical Science and Engineering	2	Lecture
	Special Lecture of Nuclear Physics for Biomedical Science and Engineering I	1	Lecture
	Special Lecture of Nuclear Physics for Biomedical Science and Engineering II	1	Lecture
	Applied Physics for Biomedical Science and Engineering	2	Lecture
	Radiation Measurement in Clinical Practice	2	Lecture
	Medical Informatics and Information Engineering	1	Lecture
	Image Processing for Biomedical Science and Engineering	2	Lecture
	Radiation Biology	1	Lecture
	Radiation Oncology for Cooperation with Biomedical Science and Engineering	2	Lecture
	Molecular Tumor Pathology	2	Lecture
	Molecular Tumor Therapeutics	2	Lecture
	Advanced Physics for Diagnostic Radiology and Nuclear Medicine	2	Lecture
	Molecular Biomedical Science and Diagnosis School	2	Lecture
Medical Imaging Informatics	1	Lecture	
Basic Principles of Medicine (Integrated Cancer Diagnostics and Therapeutics I)	2	Lecture	

*1 Course of Quantum Biomedical Science and Engineering

*2 Course of Molecular Biomedical Science and Engineering