

FACULTY:	Faculty of Technology and Education Department of Biomedical Engineering
FIELD OF STUDY:	Biomedical Engineering
ERASMUS COORDINATOR OF THE FACULTY:	Igor Maciejewski, DSc, PhD
E-MAIL ADDRESS OF THE COORDINATOR:	igor.maciejewski@tu.koszalin.pl
COURSE TITLE:	Basic principles of radiotherapy
LECTURER'S NAME:	Dr hab.n.med. Iwona Gisterek MD, PhD
E-MAIL ADDRESS OF THE LECTURER:	
ECTS POINTS FOR THE COURSE:	3
ACADEMIC YEAR:	2016/2017
SEMESTER: (W – winter, S – summer)	W
HOURS IN SEMESTER:	30
LEVEL OF THE COURSE: (1 st cycle, 2 nd cycle, 3 rd cycle)	1 st cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Lectures (15 h), Classes (15 h)
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	
COURSE CONTENT:	Basic information about medical physics – radiation. Cancer tissues and normal cells. Radiobiology, early and late side effects. Teletherapy and brachytherapy. Construction of accelerators, their rules of work. Radionuclides using in brachytherapy. Techniques of teletherapy (2D, 3D, IMRT, IGRT, stereotactic) and brachytherapy (2D, 3D).
ADDITIONAL INFORMATION:	Classes will be held in International Oncotherapy Centre Koszalin.