Course Unit Descriptor

Study Programme: Power, Electronic and Telecommunication Engineering (Telecommunication Systems)					
Course Unit Title: Medical Image Processing					
Course Unit Code: EK520					
Name of Lecturer(s): Vladimir Petrović					
Type and Level of Studies: Master Academic Degree					
Course Status (compulsory/elective): compulsory					
Semester (winter/summer): winter					
Language of instruction:english					
Mode of course unit delivery (face-to-face/distance learning): face-to-face					
Number of ECTS Allocated:					
Prerequisites: none					
Course Aims:					
Students become familiar with basic concepts in the field of medical image processing and up-to-date methods of medical					
image processing					
Learning Outcomes:					
The overview of principles and up-to-date methods used in medicine for image processing. The ability to understand the					
basic principles of medical digital image processing and the ability to acquire and widen that knowledge by working on a					
problem.					
Syllabus:					
Basic terminology in medical image processing. X-ray systems. Computed tomography. Magnetic resonance. Ultrasound					
image. Medical image segmentation. Image registration. Geometrical image transformation.					
Required Reading: Relevant literature in English TBD					
Weekly Contact Hours	y Contact Hours:2 Lectures:2		Practical work:0		
Teaching Methods:					
Lectures, computer practice, projects					
Knowledge Assessment (maximum of 100 points):100					
Pre-exam obligations	points		Final exam		points
Lecture attendance	3		Theoretical part of	f the	70
			exam		
Exercise attendance	2				
Project defense	25				
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam,					
project presentation, seminars, etc.					