Course title: mHealth
Course code: 60038
ECTS credits: 6
Requirements: None
Basic information
Level of studies: Undergraduate applied studies
Year of study: 3
Trimester: 9
Goal: Understanding the synergy in the area of wireless communications, mobile networks, biosensors and computer technologies in providing better healthcare quality services. Developing the ability to send medical images to any location. Increasing the direct interaction between patients and services.
Outcome: Students will be introduced to tools, services and infrastructure (customer support, hosting services, wireless communications) in mobile healthcare, as well as the possibilities of displaying and archiving medical images in an appropriate format, privacy mechanisms and security. Students should be able to solve problems in real-life conditions in the field of information systems and technologies and medical informatics, and participate in the project design and implementation, independently or in a team.
Contents of the course
Theoretical instruction
1. Telemetry
2. Telemedicine
3. Cmmunication networks and systems
4. Introduction to mHealth systems
5. Remote and home monitoring
6. Mobile services for different categories of patients
7. mHealth applications for Android
8. Body Area Network (BAN)
Practical instruction (Problem solving sessions/Lab work)
The classes of auditory exercises include work with the use of modern equipment and interactive group work with the encouragement of student activity. Students have the obligation to make independent work and public presentations.

Textbooks and References
1. Mobile Health: A Technology Road Map (Springer Series in Bio-/Neuroinformatics) 2015th Edition by
2. Mobile Health Solutions for Biomedical Applications, edited by Olla, Phillip, Information Science Reference (an imprint og IGI Global) ISBN-13: 978-1605663326
Number of active classes (weekly)
Lectures: 4
Practical classes: 2
Other types of classes:
Grading (maximum number of points: 100)
Pre-exam obligations: Points
Activities during lectures:
Activities on practical exercises:
Seminary work: 20
Colloquium: 40
Final exam: Points
Written exam: 40
Oral exam:
Lecturer
Danica Mamula Tartalja, PhD
Associate