Level: master	

Course title: Telemedicine

Status: elective

ECTS: 9

Requirements: none

Learning objectives

To qualify students for understanding the basic concepts of telemedicine: the use of information and communication technologies (ICT) for acquiring and transferring medical data for clinical and/or educational purposes.

Learning outcomes

Students should acquire knowledge and ability for individual and team scientific research work in the field of telemedicine, more specifically:

- Understanding of the basic concepts of telemedicine;
- Understanding of data archiving and the need of data compression;
- Understanding of the basic telemedical services.

Syllabus

Theoretical instruction

- Introduction to telemedicine;
- Types of medical data: alphanumerical, 1D, 2D, 3D, and multidimensional data;
- Medical data acquisition: basic modalities;
- Data archiving and transferring. The need of compression;
- PACS (Picture archiving and Communications System);
- Standards in medical data: DICOM and HL-7
- Telecommunication requirements in telemedicine: interactive and store-and-forward communication;
- Basic telemedicine services;
- Economic, ethic and social aspects of telemedicine.

Practical instruction

Weekly teaching load				Other:
Lectures: 3	Exercises: 1	Other forms of teaching:1	Student research:	