Name of the course: METHODS OF DATA AQUISITION AND ANALYSIS IN BIOMEDICAL RESEARCH

Teacher(s): Aleksandar Nedeljkovic, Sladjan Milanovic, Dragan Mirkov

Course status: Compulsory

Number of ECTS points:15

Requirement: None

Course objective:
Understanding the basics of collection, processing, and analysis of biomechanical and physiological signals

Outcome of the course:
After completing the course, students should be able to:

- select the appropriate instrumentation and apply it in routine work in the research laboratory (acquisition, processing, and analysis of signals obtained by measurement).

Content of the course:
Biomechanical measurements. Electrophysiological measurements. Physical ability testing. Signal acquisition and processing. Virtual and non-virtual instruments. A / D conversion. Specialized software packages (Matlab, LabView)

Recommended literature
Sinclair, Ian R. *Sensors and Transducers: A Guide for Technicians*. Oxford: Newnes, 2001. Print.
Online Course material

Number active classes	Theory: 4	Practice:

Course delivery methods
Lectures, Seminars, Laboratory work

Knowledge assessment (maximum number of points 100)
Class Activity: 10
Seminar: 50
Written Exam: 20
Oral Exam: 20

Testing ways may vary: (written exams, oral exams, project presentations, seminars, etc. .....)

*maximum length 1 A4 page