Course title: Data acquisition and analysis

Lecturer or lecturers (last name, middle name)**:** Nedeljković Č. ALeksandar; Mirkov M. Dragan

Course status: Obligatory

ECTS: 15

Condition: Completed course: Information Systems in Physical Education and Sport (or similar if the Candidate comes from other Institution)

Course objectives:
To introduce basic concepts in data collection, analysis and interpretation of physiological signals

Course outcome:
After completing the course, students will be able to**:**
Select and routinely use appropriate measurement tools in solving practical research problems.

Create custom made software application for data acquisition, analysis and interpretation.

Course description
Biomechanical measurements. Electrophysiological measurements. Assesment of physical abilities. Data aquisitiona and analysis. Virtual instrumentation; A/D conversion; Bacisc of software application (DADisp, LabView);

References:

1. Tomkins W.J. Biomedical Digital Signal Processing. University of Wisconsin-Medison. Wiliam Tomkins. 2000
2. Mark J. T. Smith MJT, Mersereau RM. Introduction to Digital Signal Processing: A Computer Laboratory Textbook. New York. John Wiley & Sons, Inc. 1991

No. of active classes	Lectures: **4**	Study research work: 6

Teaching method:
Small groups; Seminars

Knowledge assessment (maximum score 100)

Class Activites - 10
Practical Activities - **20**
Colloquium -30
Final Exam - 40