Course title: Motor control

Lecturer or lecturers (for lectures)**:** Nedeljkovic C. Aleksandar, Suzovic Dj. Dejan, Jaric M. Slobodan

Course status: Elective

ECTS: 10

Condition: courses - Measurement and Evaluation in Physical Education and Sport, Acquisition and Analysis of Biomechanical Signals

Course objectives:

- To enable understanding of the nature and complexity of the system of motor control in human from the different perspectives through the introspection in contemporary theory and practice of motor control.
- To introduce students with the investigations of motor control from the different perspectives (behavioristic, cognitive...).
- To introduce students with the current research problems and their results.
- The introspection of the experimental methods applied in motor control investigations.

Course outcome: As a result of successful accomplishment of all obligations that are proposed by the curriculum, it is expected that the students will be able to:

- recognize the current research problems in the field of motor control.
- recognize the basic set-ups, theories and models in motor controls.
- application of the methods and procedures that are use in the research of motor control.

Contents description:

I part: Introduction in motor behavior - Historical development in the field of investigations; Methodology of the physical performance investigations; Information analysis; Attention and performances.
II part: Motor control - Senses and their contribution in motor control; Role of CNS in motor control; Principles of speed and accuracy; Coordination; Individual differences and performances.
III part: Neurophysiological basis in motor control
IV part: Motor learning - Concepts of motor learning and research methods; Factors that impact the exercises; Significance of feedback; Process of learning; Storage and transfer.

References:

1. Richard A. Schmidt, Tim Lee. Motor Control and Learning-4th Edition. Champaign, IL: Human Kinetics; 2005.
2. Mark L Latash. Neurophysiological basis of human movements. Champaign, IL: Human Kinetics; 1998

No. of active classes				Other classes:
Lectures: 4	Exercises/ Practical classes:	Other forms of teaching:	Study research work: 4	

Teaching method

Theoretical lectures; practical lectures, seminars, assignments, work within the small groups

Knowledge assessment (maximum score 100)

Exam prerequisites	**points**	**Final examination**	**points**
Class Activities	30	Written examination	
Practical instruction		Practical examination	
Preliminary exam / Colloquium	30	Oral examination	*40*
Seminar papers		.....	