

Study program:Physical Education and Sport			
Type and level of studies: Basic academic studies			
<b>Course title:</b> MOTOR CONTROL			
<b>Lecturer or lecturers (for lectures):</b> Ilic B. Dusko, Lazarevic A. Dusanka, Ilic Z. Vladimir			
Course status: Obligatory			
<b>ECTS:</b> 4			
Condition: None			
<b>Course objectives:</b> The objectives of the course is to provide basic knowledge about the way of creating motor programs and strategies of motor learning, to clarify the factors of the process that impacts the performance and improvement of motor skills, as well as to describe the factors that influence the error of movement technique for simple and complex movements.			
<b>Course outcome:</b> It is expected that each student will improve the knowledge of the processes of acquiring certain motor skills and learn what are the key variables that impact motor learning, to learn how and on what way certain motor skills develop in the early age and in what way they wane later, as well as to learn ways of defining variables that represent an error in the movement performance. The aim for the students is also to become able to accurately identify key variables that are breaking the techniques of simple and complex movements and conceive in managing processes to correct them, to learn about the influence of different internal and external factors on the technique of performing certain movements, to learn the methodology of exact calculation of transfers in motor learning.			
<b>Contents description:</b> <i>Theoretical instruction</i> - Biomechanical approach to the motor control: Introduction to motor control from the aspect of technique (Introduction to the originality of the definition of motor skills - techniques; Research methods in the system of system engineering). Motor control (Methodology of motor behavior research; Information processing and memory modes; Correlations of the form of attention with the implementation of movements of different complexity; Models of motor control). Motor programs (what do we mean under the motor program at each of the performance levels? Laws of simple and complex movements; Control of speed, position and duration of movement; Motor performance on motor control levels). Motor learning and motor memory (Motor learning: Fundamental concepts and modern research methods; Motor learning measurement; Designing tests for motor learning; Motor transfer; Different conditions for the acquisition of motor skills; Level of knowledge of the movement performance; Modalities of memory and retention). Seminars - optional (Criteria for determining the degree of difficulty is the complexity of the movement from the aspect: direction, course, duration, speed, duration of movement, number of segments involved, speed of change of the coordinates of the beginning and the end of the kinetic chain, inertial properties of the props, etc.). Psychological Approach to Motor Control: Perceptive and Cognitive Development, Heritage and Maturation; Motivation for learning, basic pedagogical-psychological principles and learning approach; Learning methods, basic skills in motor skills learning, transfer and plateau in learning, principles of rewarding and punishing, use of feedback, instruction and incentives. Effective communication with students / athletes.			
<b>References:</b> Ilic, D. (1999): Motorna kontrola i učenje brzih pokreta (Motor control and learning fast movements), Zadužbina Andrejević, Belgrade; Ilic, D., Vasiljev, R. (2003): Biomehanika upravljanja kompleksnim motornim vestinama (Biomechanics of complex motor skills management), Novi Sad - Belgrade; Ilic, D et al. (2009): Motorna kontrola veslanja (Motor control of rowing). Zadužbina Andrejević, Belgrade; Schmidt, R., Timothy, D. Lee (2005): Motor control and learning, 4th edition, Human Kinetics, Champaign, Illinois.			
<b>No. of active classes</b>			Other classes:
Lectures: 3	Exercises: 0	Other forms of teaching:	Study research work:
<b>Teaching method</b> Theoretical lectures; practical lectures			
<b>Knowledge assessment (maximum score 100)</b>			
<b>Exam prerequisites</b>	<b>points</b>	<b>Final examination</b>	<b>points</b>
Class Activities	25	Written examination	30
Practical instruction		Oral examination	
Colloquiums	30	.....	
Seminar papers	15		