Study program / study programs: Physical education and sport

Type and level of studies: Master academic studies

Course title: ANALYTICS AND DIAGNOSTICS IN PE AND SPORT

Lecturer or lecturers (for lectures)**:** Dopsaj J. Milivoj
Lecturer / Associate (for practice): Dopsaj J. Milivoj

Course status: Obligatory

ECTS: 5

Condition: None

Course objectives:
The subject of Analytics and Diagnostics in Physical Education (FV) and Sports should enable students to familiarize and practically adopt basic theoretical settings and principles as well as the basics of practical skills in terms of diagnosis and analysis of phenomena in the FV and Sport system. Training of students in terms of analyzing phenomena will be carried out in such a way that they can use procedures, procedures and methods at the operational and practical level by which they will receive (cause) the necessary information on the basis of which it will quantify (qualify) or qualify (assess) the current state of a factor in FV or sport. Training students from the aspect of diagnostics of phenomena in FV and Sport so that they can use procedures, methods and methods at the operational and practical level by applying the obtained analytical information on the current state of a factor in FV or sport, appropriate scientific-professional description (numerical or expert).

Course outcome:
Each student should acquire basic theoretical knowledge and master the basic applied skills from the aspect of analytics and diagnostics of the phenomena relevant to FV and sport. Also, each student will be able to independently apply the necessary analytical and diagnostic procedures in relation level of development of an organization in the sports system, level of development of general anthropo-morphological characteristics, general and specific physical abilities of athletes, as well as to assess the level of sports efficiency of athletes and crew. Total knowledge, each student will be able to use in relation to ability to form a report of the condition of the analyzed phenomenon, and to define diagnostic evaluations of the same. The mentioned facts will serve as a decision-making criterion, in relation to the entire issue of FV and Sport at the level of deterministic systems.

Contents description:
Theoretical teaching
Definition of the subject, objective and task of the subject; Analysis of existing theories - Theory of motor space, Theory of efficiency, Theory of control of sports training, Theory of testing, Basics of metrological procedures in FV and Sport; Principles and Procedures of Analytics and Diagnostics basic physical abilities, sports training systems, physical education classes, sports competition systems and systems of sports organizations.
Practical classes (Exercises)
Testing of physical abilities; Defining norms; Models of writing expert reports from testing, realized training work, analysis of competitive activities; Design of analytical-diagnostic systems.

References:
Basics of analytical and diagnostic procedures / procedures in FV and Sport (a textbook in preparation).
Power Point presentations from classes

No. of active classes				Other classes:
Lectures: 3	Practical classes: 2	Other forms of teaching:	Study research work:	4

Teaching method
Theoretical lectures, exercises with practical lectures, exercises, presentations and practical lessons

Knowledge assessment (maximum score 100)

Exam prerequisites	**points**	**Final examination**	**points**
Class Activities	5	Written examination	
Practical instruction	10	Practical examination	
Preliminary exam / Colloquium		Oral examination	55
Seminar papers	30		