SYLLABUS

1. Course title:

UNIVARIATE ANALYSIS IN KINESIOLOGY

2. Code:

3. Cycle of study:

1

4. ECTS credits:

6

5. Type of course:

◉ Mandatory　　○ Elective

6. Prerequisites:

None

7. Class restrictions:

None

8. Duration / semester:

1　　1

9. Weekly contact hours:

9.1. Lectures:	4
9.2. Seminars:	0
9.3. Laboratory/Practice classes:	2

10. Faculty:

Faculty of Physical Education and Sport

11. Department/study program:

Physical Education and Sport

12. Lecturer:

Dr sc. Osman Lačić, van. prof.

13. Lecturer's e-mail:

osman.lacic@untz.ba

14. Web site:

www.ftos.untz.ba

15. Course aims:

• introducing students with basic univariate methods for data processing and analysis applicable in anthropology and a large number of other professional and scientific disciplines,
• getting known with basic knowledge related to understanding and applying univariate analysis in physical education and sport,
• familiarize them with basic professional and scientific terminology,
• mastering univariate quantitative level analysis,
• introducing students with software packages and applications designed to collect, process and present data.

16. Learning outcomes:

• students will master the theoretical and practical knowledge necessary for processing and analyzing data of the univariate level,
• they will be able to use basic software packages that will be of general use in practice and science,
• intellectual skills and communication skills will be at a higher level,
• they will be trained to use available literature and solving different problems of different complexity that are related to this subject, and will be able to give them oral and written explanations.

17. Course content:

1. Concept, task and subject of univariate analysis
2. Significance of univariate analysis in physical education and sport
3. Basic concepts and operations with symbols of analysis
4. Etape of research in physical education and sport
5. Central tendency measures
6. Variation measures
7. Probability
8. Theoretical distributions
9. Analysis of influences and relationships between facts
10. Computer entry and control
11. Basic data operations
12. Tabular and graphical display of results
13. Processing and analysis of statistical indicators

18. Learning methods:

Lectures and laboratory exercises using multimedia tools that stimulate active learning by interacting with students and link theory and practice. Experimental workshops as well as presentation and defense of seminars in order to improve quality, create self-confidence, acquire the accustomed learning habits with discussion and commentary. As learning styles are preferred: verbal, visual, kinesthetic, social and independent.

19. Assessment methods:

The first test of knowledge is envisaged in the 6th week of work where the students take the first colloquium consisting of a practical and theoretical part. The Practical exam contains up to then processed elements of testing and measuring in sports and students can win a maximum of 7 points. The theoretical part of the exam is in writing form and consists of questions from the topic being processed, and it can be scored up to 7 points. The possible number of credits achieved in the first semester is maximum 14. In the 12th week of the class the students take the second colloquium which covers the topics discussed from lectures and exercises from the first colloquium to the moment. This colloquium is structured as the first. Both tests put all students at the same time. As part of the pre-requisites, students are required to produce individual seminar papers that cover a specific topic from the content of the subject. Seminar work is delivered in writing to the subject teacher for examination and evaluation, then presented and defended.

Attendance is evaluated with 10 points for lectures and exercises, while for continuous activity on the lectures, the student can achieve 5 points, and 7 points are foreseen for exercise activity.

The final exam consists of a practical and theoretical part. On the practical part of the exam, the student shows the tasks of the program of the subject course processed in the exercises throught the whole semester, and is valued at maximum 20 points. The theoretical part of the exam will be realized in written or oral form, and the maximum number of credits a student can achieve on this part of the exam is 20.

The total number of points on the practical and theoretical part of the exam is up to a maximum of 40. Therefore, after completing all the above mentioned obligations, the student can win a maximum of 100 points, and in order for the student to pass the course he has to cumulatively win at least 54 points.

20. Assessment components:

The final grade of the subject is determined based on the criteria: attendance at lectures (max 10) and exercises (max 10), student activity in lectures (max 5), exercises (up to 7), and colloquia (max 14), II thesis (max.14), final exam (max. 40) of which the written part (max. 20) and oral part (max. 20). The score is determined by the scoring scale based on points scored: 0-53 (grade 5), 54-63 (grade 6), 64-73 (grade 7), 74-83 (grade 8), 84-93 (grade 9) , 93-100 (grade 10).

21. Required reading list:

1. Dizdar, D. (2006): Kvantitavne metode, Zagreb.
2. Mijanović, M., Stojak, R. (1989): Statističke metode primijenjene u antropologiji i fizičkoj kulturi, Beograd.
3. Blažić, R.M. (1982): Opšta statistika osnovi i analiza, Beograd.

22. Web sources:

23. Applicable starting from the academic year:

2015/2016

24. Adopted in the Faculty/Academy session: