SYLLABUS

1. Course title:

PSYCHOMETRICS

2. Code:

3. Cycle of study:

1

4. ECTS credits:

6

5. Type of course:

(●) Mandatory ( ) Elective

6. Prerequisites:

Statistics in Pedagogy and Psychology I, Statistics in Pedagogy and Psychology II

7. Class restrictions:

none

8. Duration / semester:

1 5

9. Weekly contact hours:

9.1. Lectures: 3

9.2. Seminars: 0

9.3. Laboratory/Practice classes: 2

10. Faculty:

Humanities and Social Sciences

11. Department/study program:

Pedagogy-Psychology

12. Lecturer:

Alija Selimović

13. Lecturer's e-mail:

alija.selimovic@untz.ba

14. Web site:

(max. 50 characters)

15. Course aims:

The main aims of this course are:
- familiarize students with basic theoretical principles of measurement in psychology and with advanced statistical techniques and psychometric methods used in psychological testing.
- introduce students to the methods of construction and validation of psychodiagnostic instruments.

16. Learning outcomes:

At the end of the course the students are expected to be able:
• to understand the basics of measurement in Psychology.
• to construct tests and their analysis and evaluation.
• to use statistical packages (SPSS, AMOS).
• to use tests and interpret results adequately.

17. Course content:

• Introduction to Psychometrics and the problems of the existence of constructs.
• Types and format of items.
• Classical test theory (CTT).
• Item Response Theory (IRT)- Rasch model for dichotomous data.
• Basic measurement properties of test items.
• Basics of construction of psychological instruments.
• Measurement and content characteristics of tests
• Measuring individual differences with instruments: Knowledge, Abilities, Attitudes, and Personality Dimensions.
• Getting acquainted with the moral code of psychological testing.

18. Learning methods:

Lectures and practical classes with the use of various multimedia teaching aids, including active participation of students.
In lectures and practical classes will be used: the method of oral presentation, method of demonstration and illustration, seminar discussions, interactive teaching methods.

19. Assessment methods:

The written method of assessment includes two tests, including the topics covered during the semester up to that point both in lectures and in practical classes. Students can earn a maximum of 20 points per test.
The final exam is in written form, and includes the topics covered over the entire semester. Students can earn a maximum of 50 points on the final exam.
Pre-exam points amount to a total of 50 points (40 points for the two tests and another 10 for attendance and active in-class participation. By fulfilling all of their requirements, students can thus earn a maximum of 100 points.
Test points count towards the final grade cumulatively if students score at least 50% points on both the test and final exam.
In order for students to earn the minimum passing grade, they need to score at least 54 cumulative points, of which at least 25 on the final exam. The final grade is formed as a sum of all points earned in-class, the test and the final exam.

20. Assessment components:

Attendance in lectures and practical classes: 10 points
Active participation in lectures and practical classes: 10 points
Individual project: 10 points
Group project: 10 points
Final written exam: 50 points
Final oral exam: 10 points
Total points: 100
The following is the grading scale, showing the points, numerical grade, descriptive grade and letter grade:
0-53 5 (five) fail F
54-63 6 (six) satisfactory E
64-73 7 (seven) good D
74-83 8 (eight very good C
84-93 9 (nine) excellent B
94-100 10 (ten) outstanding A

21. Required reading list:

- Fajgelj, S. (2013). Psihometrija (IV dopunjeno izdanje). Beograd: Centar za primenjenu psihologiju.
- Furr, R. M. & Bacharach, V. R. (2013). Psychometrics: An Introduction (2nd Ed.). Thousand Oaks, CA: Sage Publications.
- Anastasi, A., & Urbina, S. (1997). Psychological testing (7th ed.). Upper Saddle River, NJ: Printice Hall.
- Nunnally, J. C., & Bernstein, I. H. (1994). Psychometric theory (3rd Ed.). New York: McGraw-Hill.
- *** (2006). Standardi za pedagoško i psihološko testiranje. Jastrebarsko: Naklada Slap.
- Momirović, K., Wolf, B., Popović, D.A. (1996) Uvod u teoriju merenja I - interne metrijske karakteristike kompozitnih mernih instrumenata. Priština: Fakultet za fizičku kulturu
- Bukvić, A.(2007). Načela izrade psiholoških testova. Beograd: Zavod za udžbenike.
- Bucik, V. (1997). Osnove psihološkega testiranja. Ljubljana: Filozofska fakulteta.

22. Web sources:

23. Applicable starting from the academic year:

2015/2016

24. Adopted in the Faculty/Academy session:

16 March 2015