

Name of university, Name of faculty: Trnava University
Faculty of Health Care and Social Work

INFORMATION SHEET OF THE SUBJECT

Code: OsBc43		Name: Basics of research and statistics in nursing	
Cover: Department of Nursing			
Type of educational activity: Seminar		Number of credits: 3	Recommended semester: ST
Scope of educational activity (in hours): Weekly: 2 For term of study: LS 60			Study grade: 1. PO
Method of educational activity:			
Recommended semester	Study programme		
2.year ST	Nursing (D1-OŠET-22) Nursing (D1-OŠET-22-K) Nursing (E1-OŠE-25)		
Underlie subjects:			
Conditions for passing the course: Method of evaluation: Completion by taking an examination Continuous evaluation: Final evaluation: exam - written test Finished: Written test (theoretical and practical part), in which students demonstrate their theoretical knowledge of research fundamentals and practical skills in descriptive statistics using MS Excel. Evaluation: A: 100 – 95%; B: 94 – 89%; C: 88 – 83%; D: 82 – 77%; E: 76 – 71%; FX: 70% and less			
Learning outcomes: Learning outcomes: LO1 By completing the course, a student will be able to formulate a research problem, the main and partial goals of a research in nursing. LO 2 Student is able to choose and apply a data collection method in relation to a specific research problem. LO 3 Student can demonstrate an understanding of the selection of a research sample and the criteria of representativeness of the set. LO4 Student can perform descriptive statistics of 1 categorical and 1 numerical variable using a statistical program. LO5 Student can perform descriptive statistics of 2 variables in relation to each other using a statistical program. LO 6 Student can interpret the analysed data and draw conclusions from his own descriptive research.			
Schedule of subject: Schedule of subject: 1) introduction to the subject and expectations of students, basic terminology and types of research 2) stages of the research process and the specifics of research in nursing 3) defining the research problem, research goals, hypotheses and variables 4) selection of research sample and data collection method 5) essentials of working with the questionnaire - standardized and non-standardized questionnaire, distribution and computerization of data 6) creating a database of collected data in a statistical program and preparing data for analysis 7) descriptive statistics of 1 numerical variable - descriptive characteristics, boxplot, histogram 8) descriptive statistics of 1 categorical variable - frequency table, pie chart, column chart and presentation of the categorical variable in a statistical program 9) descriptive statistics of 2 variables - descriptive tables, contingency tables, stacked column charts, XY charts 10) graphic processing and principles of interpretation of descriptive statistics of 1 variable in a statistical program 11) graphic processing and principles of interpretation of descriptive statistics of 2 variables in a statistical program 12) final repetition			
Recommended reading: • ILIEVOVÁ, E . et al. 2017. Výskum v ošetrovateľstve krok za krokom. I. časť . Trnava: Typi Universitatis Tyrnaviensis, 2017, 138 s. ISBN 978-80-5680-031-7. • Solgajová, A. 2016. Základy výskumu v ošetrovateľskej praxi. Univerzita Konštantína Filozofa v Nitre, 2016, 81s. ISBN 978-80-558-1052-2. • Hlavatý, T. 2016. Základy klinického výskumu. Praha: Grada Publishing. 2016, 240s. ISBN 978-80-247-5713-1. • Terek, M. 2017. Interpretácia štatistiky a dát. Equilibria, 2017, 460s. ISBN: 978-80-8143-213-2. • Guráň, P. Fero, M. Ritomský, A. 2019. Základy spracovania sociologických dát pomocou SPSS. Typi Universitatis Tyrnaviensis. 2019, 143s. ISBN 978-80-8082-332-0. 978-83-8111-100-3.			
Language requirements: Slovak			
Notes: Conditions-Attendance DAILY students: - Pursuant to Article 4, paragraph 7 of the Study Regulations: "The student's participation in the teaching of the subject is determined by the teacher of the given subject. In justified cases, the dean may, at the student's request, decide on the student's optional participation in classes. The dean will assess the reasons for justifying the student's participation in full-time education (health, cultural, sports) and determine the possibility of relief from full-time education."			

- Teaching will take place for full-time students only in a face-to-face format at the faculty.
- The pedagogue is responsible for ensuring that the attending student confirms his presence by signing the attendance sheet at each lesson.
- A full-time student who will have MORE THAN TWO ABSENCES per semester (it doesn't matter for what reason) must ask the dean of the faculty in writing (not by email) to excuse his absence from classes and attach the relevant document of his third or more numerous absences. According to the study regulations, the dean may or may not agree to it.
- The student reports absence from class to the teacher in advance by e-mail.
- It is not possible to make up for an absent lesson.
- In the case of fulfilling other work duties of the teacher (conference, business trip,...), the teacher will inform the students of this fact in advance and assign the students a work assignment in the range of missed hours.

Conditions-Attendance COMBINED students:

- Pursuant to Article 4, paragraph 7 of the Study Regulations:
"The student's participation in the teaching of the subject is determined by the teacher of the given subject. In justified cases, the dean may, at the student's request, decide on the student's optional participation in classes. The dean will assess the reasons for justifying the student's participation in full-time education (health, cultural, sports) and determine the possibility of relief from full-time education."
- Students will only be taught face-to-face at the faculty.
- The pedagogue is responsible for ensuring that the attending student confirms his presence by signing the attendance sheet at each lesson.
- A combined student who will have MORE THAN 25% ABSENCES of the total number of subject hours per semester (it doesn't matter for what reason) must ask the dean of the faculty in writing (not by email) for an excuse for his/her non-participation in classes and attach the relevant document of his/her excessive absence. According to the study regulations, the dean may or may not agree to it.
- The student reports absence from class to the teacher in advance by e-mail.
- It is not possible to make up for an absent lesson.
- In the case of fulfilling other work duties of the teacher (conference, business trip,...), the teacher will inform the students of this fact in advance and assign the students a work assignment in the range of missed hours.

Course evaluation:

Assessed students in total: 267

A	B	C	D	E	FX
21%	16%	24%	19%	12%	7%

Lecturers:

PhDr. Denisa Benedek Jakubcová, PhD., MPH, examiner, seminary supervisor
doc. PhDr. Jana Martinková, PhD., MPH, examiner, seminary supervisor

Date of last change: 01.09.2026

Approved by: doc. PhDr. Andrea Botíková, PhD., MPH, univ. prof.