

INFORMATION SHEET OF THE SUBJECT

Code: YOsm016		Name: Methodology of scientific work	
Cover: Department of Nursing			
Type of educational activity: Lecture, Seminar		Number of credits: 4	Recommended semester: WT
Scope of educational activity (in hours): Weekly: 1/2 For term of study: ZS 23,46			Study grade: Master
Method of educational activity:			
Recommended semester	Study programme		
1.year WT	Nursing (D2-OŠET-22-K)		
Underlie subjects:			
Conditions for passing the course:			
Method of evaluation: Completion by taking an examination			
Continuous evaluation:			
Final evaluation: Final evaluation: A: 100 – 95 points, B: 94 – 89 points, C: 88 – 83 points, D: 82 – 77 points, E: 76 – 71 points, Fx: 70 points and less.			
Finished: Written exam			
Learning outcomes: After completing the course, the student will expand his knowledge of the importance and tasks of evidence-based nursing practice, taking into account research methods, analysis, interpretation of processed data and application of relevant scientific information in the decision of the nurse during the nursing process and in the implementation of a scientific research study . VV1 Student can participate in the implementation of evidence-based nursing practice in clinical practiceVV2 The student can clarify the scientific research process in nursing practice VV3 The student can formulate and define a scientific problem VV4 The student can search for scientific evidence for a set question in selected professional and scientific Databases VV5 The student can compile a standardized overview on the specified topic Vv6 The student can apply qualitative and quantitative research methods Vv7 The student is able to use guidelines and guidelines in the decision-making process, in choosing the most appropriate possible course of action, thus preventing mistakes caused by human factors Vv8 The student can implement Scientific Procedures in nursing practice VV9 The student can present the results of scientific research work as a whole VV10 The student can prepare a project proposal for a grant agency			
Schedule of subject: Brief outline of the course: Lectures 1) Characteristics of evidence-based nursing practice. 2) The structure of nursing as a science, scientific language, terminology. 3) Basics of scientific research work, methodology of scientific work. 4) Basic characteristics of a scientific study, formulation and definition of the research problem. 5) Determination of the research sample. 6) The essence, origin and role of hypotheses in science. 7) Determination of the method of conducting the study, the kitery of choosing the method of collecting empirical information. 8) The specifics of the formation of quantitative and qualitative research studies in nursing. 9) Case study as a qualitative method in nursing research. 10) Scientific information databases. 11) Recommendations, guidelines and standard procedures in scientific research activities, ethical issues of working with scientific information. 12) Grant agencies – science, research, science financing, publication and presentation of results of scientific research work Seminars 1) Terms of evidence-based nursing practice. 2) Barriers to evidence-based nursing practice. 3) Search strategy for formulating and defining the research problem. 4) Systematic search of relevant available evidence in selected databases of professional and scientific databases (PubMed, Medscape, WOS, Scopus). 5) Obtaining information through search systems. 6) Gathering existing information. 7) Evaluation of the quality of evidence obtained. 8) Analysis of weaknesses and strengths of research methods according to the research problem. 9) Analysis of the concept of research procedures in the research process. 10) Search for scientific research procedures and recommendations. 11) Analysis of clinical procedures and recommendations (guidelines). 12) Preparation of a project proposal for a grant agency, preparation of a publication paper, report, abstract.			
Recommended reading: • ČIŽNÁR, I, et al. 2012. Basics of scientific research work. Teaching text for I. (Bc.) and II. (Mgr.) level of university education. Bratislava: SZU,			

2012, 143s., ISBN 978-80-893525-68-5 (e-book)

- HENDL, J., REMR, J. 2017. Methods of research and evaluation. Prague: Portal, 2017.
- ILIEVOVA, L. et al. 2017. Research in Nursing – Step by Step. Part I. Typi Universitas Tyrnaviensis, 2017.
- JAROŠOVÁ, D., ZELENÍKOVÁ, R. 2014. Evidence-based nursing. 1st ed. Prague: Grada Publishing, 2014.
- MAREČKOVÁ, M. et al. 2015. Evidence-Based Health Care. Health care is based on scientific evidence. Olomouc: UPOL, 2015, (e-book).
- SIKOROVÁ, L., BUŽGOVÁ, R. 2013. Nursing research and practice based on cases. 1st ed. Ostrava: University of Ostrava. 2013, [online]. Available from the Internet: <http://dokumenty.osu.cz/lf/uom/uom-publikace/sbornik-2013.pdf>

Language requirements: Slovak

Notes:

The daily combined method consists of: lectures /face-to-face, online, distance, self-study/

Self-study is supported by e-learning form. The daily combined method consists of seminars /face-to-face, online, discussion group in MS Teams/

Course evaluation:

Assessed students in total: 180

A	B	C	D	E	FX
27%	12%	12%	21%	8%	19%

Lecturers:

prof. PhDr. Ivica Gulášová, PhD., MHA, lecturer, examiner, seminary supervisor

PhDr. Denisa Benedek Jakubcová, PhD., MPH, lecturer, examiner, seminary supervisor

Date of last change: 01.09.2026

Approved by: prof. PhDr. Ivica Gulášová, PhD., MHA