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| **Al-Farabi Kazakh National University**  **Syllabus**  **Autumn semester 2021-2022** | | | | | | | | | | | | |
| **Code of discipline** | | **Name of discipline** | **Type** | **Hours per week** | | | | **Credits** | | | **ECTS** | |
| **lecture** | **Practical** | **Lab** | |
|  | | Organization and Planning of Research Studies | ОК | 2 | 1 | 0 | | 3 | | | 5 | |
| **Lector** | | Lecturer: Professor, higher doctor of psychological sciences  Duisenbekov D.D. | | | | | | **Office hour** | | | | According schedule |
| **e-mail** | | e-mail: dauletdd@mail.ru | | | | | |
| **Telephone** | | Telephone: +77019933897; +77773768493; +77077291955; +77272925717 (2131) | | | | | | **Auditorium** | | | |  |
| **Academic presentation of the course** | | This course is primarily designed to expose master students to the core ideas behind research methods in psychology; the major components of designing research in psychology will be addressed. An additional goal of this course is for master students to develop the ability to conduct their own research. | | | | | | | | | | |
| **Prerequisites** | | Introduction to Psychology, Experimental Psychology, Social Psychology | | | | | | | | | | |
| **Postrequisites** | |  | | | | | | | | | | |
| **Informational resource** | | **Main Bibliography**  1. Pashler, H. (Ed)(2002) Stevens' Handbook of Experimental Psychology; New York: Wiley  2. West, S. G., & Thoemmes, F. (2010). Campbell’s and Rubin’s perspectives on causal inference. Psychological Methods, 15(1), 18-37. doi:10.1037/a0015917  3. Дружинин В.Н. Экспериментальная психология. СПб.,2000.  4. Анастази А. Психологическое тестирование. М.,1982.  5. 2. Годфруа Ж. Что такое психология? М.,1992.  6. 3. Готтсданкер Р. Основы психологического эксперимента. М.,1982.  7. Brewer, M. (2000). Research Design and Issues of Validity. In Reis, H. & Judd, C. (eds) Handbook of Research Methods in Social and Personality Psychology. Cambridge:Cambridge University Press.  8. McGuigan, F.J. (1997) Experimental Psychology: Methods of Research. New Jersey: Prentice-Hall.  9. Charness, G., Gneezy, U., & Kuhn, M. A. (2012). Experimental methods: Between-subject and within-subject design. Journal Of Economic Behavior & Organization, 81(1), 1-8.  10. Solso, Robert L. & MacLin, M. Kimberly (2001). Experimental Psychology: A Case Approach (7th ed.). Boston: Allyn & Bacon. ISBN 0-205-41028-6.  **Additional Bibliography**  1. Fleiss, J. L. (1986). Reliability of measurement. The design and analysis of clinical experiments, 1-32.  2. Sturm, T. & Ash, M.G (2005). Roles of instruments in psychological research. History of Psychology,8, 3-34.  3. Куликов Л.В. Психологическое исследование. СПб.,1994.  4. Ганзен В.А. Системные описания в психологии. Л.,1984.  5. Клайн П. Справочное руководство по конструированию тестов. Киев,1994.  6. Налимов В.В. Теория эксперимента. М.,1971.  7. Кун Т. Структура научных революций. М.,1983.  8. Поппер К. Логика и рост научного знания. М.,1983.  9. Лакатос И. Доказательность и опровержение. М.,1967.  10. Фейерабенд П. Избранные труды по методологии науки. М.,1986.  11. Levine, G., Parkinson, S (1994) Experimental methods in psychology. Hillsdale, NJ: Lawrence Erlbaum Associates.  12. Kline, R. B. (2004). Effect Size Estimation in Multifactor Designs. In , Beyond significance testing: Reforming data analysis methods in behavioral research (pp. 203-243). Washington, DC US: American Psychological Association. doi:10.1037/10693-007 | | | | | | | | | | |
| **Structure of discipline** | | This is an introductory course that will be carried out a general acquaintance with a large amount of theoretical material. Home works (exercises) will give you an opportunity to get acquainted with the practical application of theoretical material. You can work together with another student with homework. | | | | | | | | | | |
| **Academic policy of the course in the context of university values** | | 1. For each class you have to prepare according to the schedule below. Each task should be completed by the class, where the topic is discussed.  2. Homework will be distributed throughout the semester, as shown in the graph of discipline.  3. Most homework will include a few questions that can be answered by querying on the database example; you need to perform queries and answers that you got used to the next part of the homework. Search SQL appropriate learning resources may be required to study necessary inquiries.  4. During the semester, you will use the material studied in the project. Specific requirements for the project will be distributed in class. All parts of the project will constitute 10% of the final mark of the course.  5. You will need to complete the main project programming, providing for the development of database applications using the database structure provided by the lector. Specific requirements will be distributed in class. The project will cost 15% of the final grade.  When homework subject to the following rules:  • Homework should be carried out within a specified time. Later, homework will not be accepted.  • Homework should be done on one side of a sheet of A4 paper, and pages must be attached in order of numbering issues (problems). Questions (task) must be numbered, and definitive answers (if necessary) must be provided. (Homework, do not meet these standards will be returned with an unsatisfactory evaluation).  • You can work together with another student with homework. | | | | | | | | | | |
| **Evaluation and appraisal policy** | | Appropriate timing of homework may be extended in the event of extenuating circumstances (such as illness, emergencies, contingency, etc.) in accordance with the University's academic policies. Student participation in discussions and exercises during class will be taken into account in its overall assessment of the discipline. Design issues, dialogue and feedback on the subject of discipline are welcomed in classes, and the lector during final grade will take into account the participation of each student in the class. | | | | | | | | | | |
| **Summative estimation** | | | | | | | | | | |
| **Policies** | | **Description of independent work** | | | | | **Weight** | | | **Results of study** | | |
| Homework  Self-work  SWML  Exams  **TOTAL** | | | | | 35%  10%  15%  40%  100% | | | 1,2,34,5,6  2,3,4  4,5,6  1,2,3,4,5,6 | | |
| Your final score will be calculated by the formula:  Below are minimum estimates (in Percentage):  95% - 100%: А 90% - 94%: А-  85% - 89%: В+ 80% - 84%: В 75% - 79%: В-  70% - 74%: С+ 65% - 69%: С 60% - 64%: С-  55% - 59%: D+ 50% - 54%: D- 0% -49%: F | | | | | | | | | | |
| **Policies of the discipline** | | Appropriate timing of homework or projects may be extended in the event of extenuating circumstances (such as illness, emergencies, contingency, etc.) in accordance with the University's academic policies. Student participation in discussions and exercises during class will be taken into account in its overall assessment of the discipline. Design issues, dialogue and feedback on the subject of discipline are welcomed in classes, and the lector during final grade will take into account the participation of each student in the class. | | | | | | | | | | |
| **Schedule of discipline** | | | | | | | | | | | | |
| **Week** | **Thematic block I – Main Issues of Organization and Planning of Research Studies** | | | | | | | **Hours** | **Max. points** | | | |
| **1** | Lecture 1. Research methods in psychology: Historical overview | | | | | | | 2 | 1 | | | |
|  | Practical (laboratory) lesson 1. Basic scientific schools of psychology and their researches | | | | | | | 1 | 5 | | | |
|  | Theme of Self-work 1. Make table of scientific research topics in psychology | | | | | | | 1 | 6 | | | |
| **2** | Lecture 2. Types and structure of experiment in psychology | | | | | | | 2 | 2 | | | |
|  | Practical (laboratory) lesson 2. Using measurement scales in psychological research | | | | | | | 1 | 5 | | | |
|  | Theme of Self-work 2. Make table of research scales and dependent and independent variables | | | | | | | 1 | 6 | | | |
| **3** | Lecture 3. Organizing the psychological research: variables, hypothesis and methods | | | | | | | 2 | 2 | | | |
|  | Practical (laboratory) lesson 3. Basic requirements for research subjects | | | | | | | 1 | 5 | | | |
|  | Theme of Self-work 3. Create a scheme of using research methods on the theme of your dissertation | | | | | | | 1 | 6 | | | |
|  | **Thematic block II – Peculiarities of Organization and Planning Research Studies in Psychology** | | | | | | |  |  | | | |
| 4 | Lecture 4. Creation and adaptation of new psychological method | | | | | | | 2 | 1 | | | |
|  | Practical (laboratory) lesson 4. Standardization, reliability and validity of new method | | | | | | | 1 | 5 | | | |
|  | Theme of Self-work 4. Make a scheme of the psychological experiment on a subject of your dissertation with all details and conditions. | | | | | | |  | 6 | | | |
| **5** | Lecture 5. The design of the experiment in psychology. | | | | | | | 2 | 1 | | | |
|  | Practical (laboratory) lesson 5. Experimental forms of design and ways of their control | | | | | | | 1 | 5 | | | |
|  | Theme of Self-work 5. Make a list of new innovative research design | | | | | | |  | 6 | | | |
| **6** | Lecture 6. Pilot research in psychology. | | | | | | | 2 | 1 | | | |
|  | Practical (laboratory) occupation 6. Conditions of conducting the pilot research | | | | | | | 1 | 5 | | | |
| **7** | Lecture 7. Data processing of psychological experiment | | | | | | | 2 | 1 | | | |
| Practical (laboratory) lesson 7. Quantitative and qualitative data processing | | | | | | | 1 | 5 | | | |
| **RC 1** | | | | | | |  | **15** | | | |
| **Border control** | | | | | | |  | **100** | | | |
|  | **Thematic block III – Data Processing in Organization and Planning Research Studies in Psychology** | | | | | | |  |  | | | |
| **8** | Lecture 8. Data processing by SPSS in psychological research studies | | | | | | | 2 | 1 | | | |
| Practical (laboratory) lesson 8. The main functions and opportunities of using SPSS | | | | | | | 1 | 5 | | | |
| Theme of Self-work 6. Create a scheme of using SPSS within your dissertational study with the example | | | | | | |  | 6 | | | |
| **9** | Lecture 9. Modern computer technologies in psychological research | | | | | | | 2 | 1 | | | |
|  | Practical (laboratory) lesson 9. Mistakes and restrictions in use of computer programs | | | | | | | 1 | 5 | | | |
|  | Theme of Self-work 7. Develop the example of your own virtual technology of data collecting | | | | | | |  | 5 | | | |
| **10** | Lecture 10. New research methods in Psychology: Psychological measurement using PSYLAB, MatLab, Neuron-Spectrum and etc. | | | | | | | 2 | 1 | | | |
|  | Practical (laboratory) lesson 10. Critics of using innovative methods and techniques | | | | | | | 1 | 5 | | | |
|  | Theme of Self-work 8. Article review: Experimental researches in psychology using innovative technology | | | | | | | 1 | 5 | | | |
| **11** | Lecture 11. Generalization and interpretation of research results | | | | | | | 2 | 1 | | | |
|  | Practical (laboratory) lesson 11. Forming the conclusion of psychological research | | | | | | | 1 | 5 | | | |
|  | Theme of Self-work 9. Make table of forms of representation of research results | | | | | | |  | 5 | | | |
| **12** | Lecture 12. Psychophysiological researches and their structure | | | | | | | 2 | 1 | | | |
|  | Practical (laboratory) lesson 12. Innovative research methods of the brain | | | | | | | 1 | 5 | | | |
|  | Theme of Self-work 10. Article review on the theme: Psychophysiology and psychosomatics | | | | | | |  | 6 | | | |
|  | **Thematic block IV – Modern Aspects of Organization and Planning Research Studies in Psychology** | | | | | | |  |  | | | |
| **13** | Lecture 13. Well-known psychological experiments met critics from the Ethical committee | | | | | | | 2 | 1 | | | |
|  | Practical (laboratory) lesson 13. Steps of scientific paper publication (APA and European standards) | | | | | | | 1 | 5 | | | |
| **14** | Lecture 14. Communication of the researcher and participants | | | | | | | 2 | 1 | | | |
|  | Practical (laboratory) lesson 14. The researcher mistakes in the process of psychological research | | | | | | | 1 | 5 | | | |
| **15** | Lecture 15. Ethics of experimental research in psychology | | | | | | | 2 | 1 | | | |
|  | Practical (laboratory) lesson 15. Ethical principles of conducting research of British (BPS), American (APA) and Russian (RAO) psychological society | | | | | | | 1 | 5 | | | |
|  | **RC 2** | | | | | | |  | **15** | | | |
|  | **Border control** | | | | | | |  | **100** | | | |
|  | **Total** | | | | | | |  | **100** | | | |
| **Exam** | | | | | | | |  | **100** | | | |
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