**THE FACULTY OF PHILOSOPHY AND POLITOLOGY**

**Department of general and ethnical psychology**

**Educational program of specialty “6M050300 -Psychology”**

**Theme of Self-work**

**on discipline Advanced Methods of Statistics in Psychology**

1 course, 2 credits, elective discipline

Lector: Candidate of Psychological Sciences I.R.Khussainova

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Auditorium:

 Seminars: Candidate of Psychological Sciences I.R.Khussainova

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Auditorium:

Students are expected to attend all sessions and participate actively in problem-solving exercises and the facilitation cases of Theme of Self-work.

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|  | **The theme**  | **Methodical recommendation** | **Bibliography** |
|  | Features of measurements in psychology | The deadline for all work, including comments to your Discussion Group, is Sunday at 21.00. If your assignments are not posted by the deadline, the grade will be lowered. | Pallant, Julie. “SPSS Survival Manual.” 4th Ed, McGraw-Hill, 2010.Cronk, Brian. “How to Use SPSS: A Step-By-Step Guide to Analysis and Interpretation.” 5th Ed, 2008Field, Andy. “Discovering Statistics Using SPSS.” Sage Publishers, 2011Development Core Team. (2011). R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing: Vienna, Austria.Morling, B. (2012). Research Methods in Psychology: Evaluating a World of Information.1st Edition. New York: W. W. Norton & CompanyGottsdanker R. Bases of psychological experiment. M: Academy. 2005. (in Russian) |
|  | Analyze Descriptive statistics in psychology | The deadline for all work, including comments to your Discussion Group, is Sunday at 21.00. If your assignments are not posted by the deadline, the grade will be lowered. | Pallant, Julie. “SPSS Survival Manual.” 4th Ed, McGraw-Hill, 2010.Cronk, Brian. “How to Use SPSS: A Step-By-Step Guide to Analysis and Interpretation.” 5th Ed, 2008Field, Andy. “Discovering Statistics Using SPSS.” Sage Publishers, 2011Development Core Team. (2011). R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing: Vienna, Austria.Morling, B. (2012). Research Methods in Psychology: Evaluating a World of Information.1st Edition. New York: W. W. Norton & CompanyGottsdanker R. Bases of psychological experiment. M: Academy. 2005. (in Russian) |
|  | Analyze scheme of experimental data analysis | The deadline for all work, including comments to your Discussion Group, is Sunday at 21.00. If your assignments are not posted by the deadline, the grade will be lowered. | Pallant, Julie. “SPSS Survival Manual.” 4th Ed, McGraw-Hill, 2010.Cronk, Brian. “How to Use SPSS: A Step-By-Step Guide to Analysis and Interpretation.” 5th Ed, 2008Field, Andy. “Discovering Statistics Using SPSS.” Sage Publishers, 2011Development Core Team. (2011). R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing: Vienna, Austria.Morling, B. (2012). Research Methods in Psychology: Evaluating a World of Information.1st Edition. New York: W. W. Norton & CompanyGottsdanker R. Bases of psychological experiment. M: Academy. 2005. (in Russian) |
|  | Describe main concepts of SPSS | The deadline for all work, including comments to your Discussion Group, is Sunday at 21.00. If your assignments are not posted by the deadline, the grade will be lowered. | Pallant, Julie. “SPSS Survival Manual.” 4th Ed, McGraw-Hill, 2010.Cronk, Brian. “How to Use SPSS: A Step-By-Step Guide to Analysis and Interpretation.” 5th Ed, 2008Field, Andy. “Discovering Statistics Using SPSS.” Sage Publishers, 2011Development Core Team. (2011). R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing: Vienna, Austria.Morling, B. (2012). Research Methods in Psychology: Evaluating a World of Information.1st Edition. New York: W. W. Norton & CompanyGottsdanker R. Bases of psychological experiment. M: Academy. 2005. (in Russian) |
|  | Describe power of criteria | The deadline for all work, including comments to your Discussion Group, is Sunday at 21.00. If your assignments are not posted by the deadline, the grade will be lowered. | Pallant, Julie. “SPSS Survival Manual.” 4th Ed, McGraw-Hill, 2010.Cronk, Brian. “How to Use SPSS: A Step-By-Step Guide to Analysis and Interpretation.” 5th Ed, 2008Field, Andy. “Discovering Statistics Using SPSS.” Sage Publishers, 2011Development Core Team. (2011). R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing: Vienna, Austria.Morling, B. (2012). Research Methods in Psychology: Evaluating a World of Information.1st Edition. New York: W. W. Norton & CompanyGottsdanker R. Bases of psychological experiment. M: Academy. 2005. (in Russian) |
|  | Describe meaning and types of statistical hypothesis | The deadline for all work, including comments to your Discussion Group, is Sunday at 21.00. If your assignments are not posted by the deadline, the grade will be lowered. | Pallant, Julie. “SPSS Survival Manual.” 4th Ed, McGraw-Hill, 2010.Cronk, Brian. “How to Use SPSS: A Step-By-Step Guide to Analysis and Interpretation.” 5th Ed, 2008Field, Andy. “Discovering Statistics Using SPSS.” Sage Publishers, 2011Development Core Team. (2011). R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing: Vienna, Austria.Morling, B. (2012). Research Methods in Psychology: Evaluating a World of Information.1st Edition. New York: W. W. Norton & CompanyGottsdanker R. Bases of psychological experiment. M: Academy. 2005. (in Russian) |
|  | Purpose, description and limitations of multifunctional factor analysis | The deadline for all work, including comments to your Discussion Group, is Sunday at 21.00. If your assignments are not posted by the deadline, the grade will be lowered. | Pallant, Julie. “SPSS Survival Manual.” 4th Ed, McGraw-Hill, 2010.Cronk, Brian. “How to Use SPSS: A Step-By-Step Guide to Analysis and Interpretation.” 5th Ed, 2008Field, Andy. “Discovering Statistics Using SPSS.” Sage Publishers, 2011Development Core Team. (2011). R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing: Vienna, Austria.Morling, B. (2012). Research Methods in Psychology: Evaluating a World of Information.1st Edition. New York: W. W. Norton & CompanyGottsdanker R. Bases of psychological experiment. M: Academy. 2005. (in Russian) |
|  | Give classification to different form of statistical programs in Psychology  | The deadline for all work, including comments to your Discussion Group, is Sunday at 21.00. If your assignments are not posted by the deadline, the grade will be lowered. | Pallant, Julie. “SPSS Survival Manual.” 4th Ed, McGraw-Hill, 2010.Cronk, Brian. “How to Use SPSS: A Step-By-Step Guide to Analysis and Interpretation.” 5th Ed, 2008Field, Andy. “Discovering Statistics Using SPSS.” Sage Publishers, 2011Development Core Team. (2011). R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing: Vienna, Austria.Morling, B. (2012). Research Methods in Psychology: Evaluating a World of Information.1st Edition. New York: W. W. Norton & CompanyGottsdanker R. Bases of psychological experiment. M: Academy. 2005. (in Russian) |
|  | analyze statistics in several research articles in Psychology | The deadline for all work, including comments to your Discussion Group, is Sunday at 21.00. If your assignments are not posted by the deadline, the grade will be lowered. | Pallant, Julie. “SPSS Survival Manual.” 4th Ed, McGraw-Hill, 2010.Cronk, Brian. “How to Use SPSS: A Step-By-Step Guide to Analysis and Interpretation.” 5th Ed, 2008Field, Andy. “Discovering Statistics Using SPSS.” Sage Publishers, 2011Development Core Team. (2011). R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing: Vienna, Austria.Morling, B. (2012). Research Methods in Psychology: Evaluating a World of Information.1st Edition. New York: W. W. Norton & CompanyGottsdanker R. Bases of psychological experiment. M: Academy. 2005. (in Russian) |
|  | Analyze ways of mention about significant parameter in psychological research papers  | The deadline for all work, including comments to your Discussion Group, is Sunday at 21.00. If your assignments are not posted by the deadline, the grade will be lowered. | Pallant, Julie. “SPSS Survival Manual.” 4th Ed, McGraw-Hill, 2010.Cronk, Brian. “How to Use SPSS: A Step-By-Step Guide to Analysis and Interpretation.” 5th Ed, 2008Field, Andy. “Discovering Statistics Using SPSS.” Sage Publishers, 2011Development Core Team. (2011). R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing: Vienna, Austria.Morling, B. (2012). Research Methods in Psychology: Evaluating a World of Information.1st Edition. New York: W. W. Norton & CompanyGottsdanker R. Bases of psychological experiment. M: Academy. 2005. (in Russian) |
|  | Describe Correlational Coefficient in Excel | The deadline for all work, including comments to your Discussion Group, is Sunday at 21.00. If your assignments are not posted by the deadline, the grade will be lowered. | Pallant, Julie. “SPSS Survival Manual.” 4th Ed, McGraw-Hill, 2010.Cronk, Brian. “How to Use SPSS: A Step-By-Step Guide to Analysis and Interpretation.” 5th Ed, 2008Field, Andy. “Discovering Statistics Using SPSS.” Sage Publishers, 2011Development Core Team. (2011). R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing: Vienna, Austria.Morling, B. (2012). Research Methods in Psychology: Evaluating a World of Information.1st Edition. New York: W. W. Norton & CompanyGottsdanker R. Bases of psychological experiment. M: Academy. 2005. (in Russian) |
|  | Give several examples of MatLab in psychological research | The deadline for all work, including comments to your Discussion Group, is Sunday at 21.00. If your assignments are not posted by the deadline, the grade will be lowered. | Pallant, Julie. “SPSS Survival Manual.” 4th Ed, McGraw-Hill, 2010.Cronk, Brian. “How to Use SPSS: A Step-By-Step Guide to Analysis and Interpretation.” 5th Ed, 2008Field, Andy. “Discovering Statistics Using SPSS.” Sage Publishers, 2011Development Core Team. (2011). R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing: Vienna, Austria.Morling, B. (2012). Research Methods in Psychology: Evaluating a World of Information.1st Edition. New York: W. W. Norton & CompanyGottsdanker R. Bases of psychological experiment. M: Academy. 2005. (in Russian) |
|  | Evaluating process of data illustration in scientific article | The deadline for all work, including comments to your Discussion Group, is Sunday at 21.00. If your assignments are not posted by the deadline, the grade will be lowered. | Pallant, Julie. “SPSS Survival Manual.” 4th Ed, McGraw-Hill, 2010.Cronk, Brian. “How to Use SPSS: A Step-By-Step Guide to Analysis and Interpretation.” 5th Ed, 2008Field, Andy. “Discovering Statistics Using SPSS.” Sage Publishers, 2011Development Core Team. (2011). R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing: Vienna, Austria.Morling, B. (2012). Research Methods in Psychology: Evaluating a World of Information.1st Edition. New York: W. W. Norton & CompanyGottsdanker R. Bases of psychological experiment. M: Academy. 2005. (in Russian) |