

# Computer Data Development - opis przedmiotu

| Informacje ogólne   |                                          |
|---------------------|------------------------------------------|
| Nazwa przedmiotu    | Computer Data Development                |
| Kod przedmiotu      | 11.2-WP-SOCDA-KOD                        |
| Wydział             | <a href="#">Wydział Nauk Społecznych</a> |
| Kierunek            | Sociology                                |
| Profil              | ogólnoakademicki                         |
| Rodzaj studiów      | drugiego stopnia z tyt. magistra         |
| Semestr rozpoczęcia | semestr zimowy 2018/2019                 |

| Informacje o przedmiocie        |                                                                                 |
|---------------------------------|---------------------------------------------------------------------------------|
| Semestr                         | 2                                                                               |
| Liczba punktów ECTS do zdobycia | 4                                                                               |
| Typ przedmiotu                  | obieralny                                                                       |
| Język nauczania                 | angielski                                                                       |
| Sylabus opracował               | <ul style="list-style-type: none"><li>dr hab. Dorota Szaban, prof. UZ</li></ul> |

| Formy zajęć  |                                         |                                        |                                            |                                           |                     |
|--------------|-----------------------------------------|----------------------------------------|--------------------------------------------|-------------------------------------------|---------------------|
| Forma zajęć  | Liczba godzin w semestrze (stacjonarne) | Liczba godzin w tygodniu (stacjonarne) | Liczba godzin w semestrze (niestacjonarne) | Liczba godzin w tygodniu (niestacjonarne) | Forma zaliczenia    |
| Laboratorium | 30                                      | 2                                      | -                                          | -                                         | Zaliczenie na ocenę |

## Cel przedmiotu

Preparing students to apply basic procedures for analysis of the survey data and their practical use: calculation, analysis and interpretation of the results of empirical research. Acquiring skills of using an IBM SPSS Statistics.

## Wymagania wstępne

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## Zakres tematyczny

1. Preparation of quantitative research: construction of a measurement tool (questionnaire).
2. Preparation of survey data for analysis: Creating databases. Data entry and control.
3. Basic analysis of collected data: preliminary analysis of distributions - calculation of frequency, measures of central tendency and measures of dispersion, definition of multiple response sets, frequency calculation based on sets of multiple responses. Data conversion: recoding of variable values, counting occurrences of values, calculation of new values, conditional transformations.
4. Testing dependencies between variables: construction of cross tables, measure of significance of the compound, Chi-square, Student's t test in independent samples and in dependent tests.
5. Cross tables based on sets of multiple statements. Correlation of variables.
6. Work on your own research project: analysis of the results - preparation of the report.

## Metody kształcenia

Problem-solving laboratory method, the method of practical sessions

## Efekty uczenia się i metody weryfikacji osiągnięcia efektów uczenia się

| Opis efektu                                                                                                                                                                                                                                                                                                                            | Symbole efektów                                                       | Metody weryfikacji                                        | Forma zajęć                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|
| Student is able to use a computer program (IBM SPSS Statistics) for data analysis, using its basic and advanced features.                                                                                                                                                                                                              | <ul style="list-style-type: none"><li><a href="#">K_U08</a></li></ul> | <ul style="list-style-type: none"><li>kolokwium</li></ul> | <ul style="list-style-type: none"><li>Laboratorium</li></ul> |
| knowledge and skills acquired by a student allow to explain the social phenomena and processes of his/her interest with computer statistical analysis and to use acquired competence in implementing his/her own projects. Student has the ability to read the subsequent versions of the software obtained under the ARIADNA program. | <ul style="list-style-type: none"><li><a href="#">K_K07</a></li></ul> | <ul style="list-style-type: none"><li>kolokwium</li></ul> | <ul style="list-style-type: none"><li>Laboratorium</li></ul> |
| The student has in-depth knowledge of the most important international and national sociological research relating to selected areas of social reality or selected subdisciplines of sociology and knows the possibilities of analyzing data from these projects                                                                       | <ul style="list-style-type: none"><li><a href="#">K_W12</a></li></ul> | <ul style="list-style-type: none"><li>kolokwium</li></ul> | <ul style="list-style-type: none"><li>Laboratorium</li></ul> |

## Warunki zaliczenia

| FORM OF ASSESSMENT OF CLASSES                        | REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Grade                                                | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Written mid-term exam.                               | The grade consists of the average of grades obtained from three tests including: (1) creating a questionnaire in Word, creating a template for creating a database in Excel, creating a database in IBM Statistics SPSS, (2) frequency analysis of variables, procedure for recoding variables, variable covariability analysis (cross tables and chi-square test), (3) creating multiple response sets and their analysis; testing statistical hypotheses (t-Student) and exercises provided for in the program. |
| The scope of the material covering the mid-term exam | According to Syllabus, presented at the first class.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Criteria for grade assessment for classes.           | Classes grade will be the arithmetic mean of all three mid-term exams.                                                                                                                                                                                                                                                                                                                                                                                                                                            |

**The final grade is the grade of the classes**

## Literatura podstawowa

1. [www.academia.dk/BilogiskAntropologi/Eidemiologi/PDF/SPSS\\_Statistical\\_Analyses\\_using\\_SPSS.pdf](http://www.academia.dk/BilogiskAntropologi/Eidemiologi/PDF/SPSS_Statistical_Analyses_using_SPSS.pdf)
2. [www.training-classes.com/programs/02/80/28059\\_statistics\\_an\\_introduction\\_for\\_beginners.php](http://www.training-classes.com/programs/02/80/28059_statistics_an_introduction_for_beginners.php)

## Literatura uzupełniająca

1. Materials from the lecturer

## Uwagi

Students can receive, during the whole learning cycle, a licensed within ARIADNA program version of the IBM SPSS Statistics (new version each year) to be used in the implementation of their own projects.

Zmodyfikowane przez dr Dorota Bazuń (ostatnia modyfikacja: 02-05-2018 13:18)

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