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| **Subject** | **Scientific research methods with statistics** | | | |
| **Type** | **Semester** | **ECTS** | **Code** |
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| **Aims and Objectives** | The purpose of this course is to prepare students to conduct academic research to underfund qualitative, quantitative research methodology and to understand and conduct experiments. In addition, this course will prepare students with the use of scientific data and communication of information in order to analyse and evaluate health issues of interest, respecting the basic principles of working with data, data processing and data presentation.  At the end of the semester, the student will be able to:  Select and implement research methodology  evaluate his / her work through the application of statistical analysis  design simple research to get and improve the quality of their work,  analyse professional and scientific literature, and  understand evidence-based procedures. | | | |
| **Learning Outcomes** | **Introduction to Research Methodology**  Quantitative Research  Qualitative Research  The Combined Method  Experiment  Literature Review  **Introduction to Statistics**  **Data types**  Data  Information  Variables  Nominal Data  Ordinary Data  Scaled Data  **Central tendency**  Mean  Median  Mode  Sum  **Dispersion**  The Standard Deviation  Variance  Rangu  Minimum  Maximum  **Distribution Dispersion**  Skewness  Kurtosis  **Correlations**  **Chi Square Test**  **ANOVA**  **T-Test**  **Compare means**  **Introduction to SPSS**   * Data View * Variable View * Field coding * Obtaining data from various sources * Descriptive Analysis * Creating reports * Creating cross tables * Missing values * Transform and modify data with SPSS   **Statistical Functions in MS Excel**   * AVEDEV * AVERAGE * AVERAGEIF * AVERAGEIFS * CONFIDENCE FORECAST * COUNT * COUNTA * COUNTBLANK * COUNTIF * COUNTIFS * LARGE * MEDIAN * MODE * PROBE * RANGE * RANK * SMALL * STDEV * STDEVA * STDEVP * SUM * SUMIF * SUMIFS * TREND * VAR   **Office 365 and Share Point**  • Office 365  • Why clouding services  • Office 365 applications  • Power BI   * Microsoft Forms | | | |
| **Literature/References** | 1. Material i pergatitur nga ligjeruesi i lendes 2. Besnik Skenderi, Hulumtimet Shkencore dhe Analiza e te dhenave me SPSS 3. Besnik Skenderi, MS Excel i Avancuar   **Tjera shtese** | | | |