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| **Subject** | **Scientific research methods with statistics** |
| **Type** | **Semester** | **ECTS** | **Code** |
|  (O) | I | 6 | / |
| **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 methodologyevaluate his / her work through the application of statistical analysisdesign simple research to get and improve the quality of their work,analyse professional and scientific literature, andunderstand evidence-based procedures. |
| **Learning Outcomes** | **Introduction to Research Methodology**Quantitative ResearchQualitative ResearchThe Combined MethodExperimentLiterature Review**Introduction to Statistics****Data types**DataInformationVariablesNominal DataOrdinary DataScaled Data**Central tendency**MeanMedianModeSum**Dispersion**The Standard DeviationVarianceRanguMinimumMaximum**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
* CONFIDENCEFORECAST
* 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** |