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| **Course title** | **Code** | **Semester** | **Type of course** | **Course volume (Contact hours)** | **ECTS** |
| **Research Methodology and Biostatistics** | **MED****3007** | **V** | **Mandatory** | 40 | **4** |
| **Faculty, the educational program and level of education** | * School of Medicine and Health Sciences
* Higher Medical Educational Program “Medicine”
* One cycle 6-year
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| **Learning Course Content** |
| * Introduction in biostatistics; Basic in medical research. Studies types.

Problem, Hypothesis; Research protocol;* Collecting data; Observation research; Importance of questionnaire for research

Cross sectional process in research; Medical experiment* Prevalence; Incidence
* Descriptive and inferential statistic ; Variable; P-value, standard deviation ;
* SPSS –statistical programme
* Types of study. Survey and comparative studies
* Frequency distribution. Stemplot .Fraquance charts.
* Frequency tables.
* Quartiles. Boxplots

Probability* ROC curve

Correlation* Statistical analysis
* Calculation of Risk, correlation; Present of presentation
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| **Textbooks and Materials** |
| * Basic Biostatistics: Statistics for public Health Practice- B.Burts Gertsman; Jones & Bartlett Learning; 2nd ed. 2015;
* Medıcal bıostatıstıcs- Indrayan Abhaya; CRC Press; 3rd.ed. 2013;
* An EasyGuide to Research Design & SPSS-Beth M. Schwartz; Janie H. Wilson; Sage; 2015;
* Introductory Statistics-Neil A. Weiss; Pearsonş 10th.ed. 2016;
* High-Yield: Biostatistics, Epidemiology, & Public Health-Anthony N. Glaser; Wolter Kluwer; 4th.ed. 2014;
* Principles in Biostatistics Pagano, Marcello; Duxbury; 2nd.ed. 2000;
* Practical Statistics for Medical Research-Altman,Douglas G; Chapman & Hall/CRC; 1991;
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