

Vocational School / Medical Documentation and Secretariat
2023 - 2024 Academic Year
BASIC BIOSTATISTICS
Syllabus

| Course Description | | | | | |
|---|--|--------------------------------|---------------------------|--------|------|
| Name | Code | Semester | T+A Hour | Credit | ECTS |
| BASIC BIOSTATISTICS | TDS2174600 | Fall Semester | 2+0 | 2 | 4 |
| Prerequisites Courses | | | | | |
| Recommended Elective Courses | | | | | |
| Language of Instruction | Turkish | | | | |
| Course Level | Short Cycle (Associate's Degree) | | | | |
| Course Type | Required | | | | |
| Course Coordinator | Lect. Aslıhan DEMİRCAN | | | | |
| Name of Lecturer(s) | Assoc.Prof. Serkan ETİ | | | | |
| Assistant(s) | | | | | |
| Aim | To give students knowledge of biostatistics will be required in professional life. | | | | |
| Course Content | This course contains; Health Services and Biostatistics-I,Health Services and Biostatistics-II,Descriptive Statistics,Computational Implementation - I,Presentation of Biostatistics Data,Probability and Theoretical Distributions,Computational Implementation - II,Correlation and Regression - I,Correlation and Regression - II,Chi-Square Tests and Their Applications,T-Test and Its Application,Nonparametric Tests (Rank Statistics Tests),Evaluation of Diagnostic Tests,Computational Implementation - III. | | | | |
| Course Learning Outcomes | | Teaching Methods | Assessment Methods | | |
| Defines the use of health care statistics. | | 10, 9 | C | | |
| Defines statistics and biostatistics. | | 10, 16, 9 | C | | |
| Summarizes the use of biostatistics in health care. | | 10, 16, 9 | C | | |
| Defines the basic concepts of biostatistics. | | 10, 16, 9 | C | | |
| Explains the use of statistics in medical documentation services. | | 10, 16, 9 | C | | |
| Teaching Methods | 10: Discussion Method, 16: Question - Answer Technique, 9: Lecture Method | | | | |
| Assessment Methods | C: Multiple-Choice Exam | | | | |
| Lecture Schedule | | | | | |
| Sequence | Topics | Preliminary Preparation | | | |
| 1 | Health Services and Biostatistics-I | | | | |
| 2 | Health Services and Biostatistics-II | | | | |
| 3 | Descriptive Statistics | | | | |
| 4 | Computational Implementation - I | | | | |
| 5 | Presentation of Biostatistics Data | | | | |
| 6 | Probability and Theoretical Distributions | | | | |
| 7 | Computational Implementation - II | | | | |
| 8 | Correlation and Regression - I | | | | |
| 9 | Correlation and Regression - II | | | | |
| 10 | Chi-Square Tests and Their Applications | | | | |
| 11 | T-Test and Its Application | | | | |
| 12 | Nonparametric Tests (Rank Statistics Tests) | | | | |
| 13 | Evaluation of Diagnostic Tests | | | | |
| 14 | Computational Implementation - III | | | | |
| Evaluation Methods | | Weight(%) | | | |
| Midterm Exam | | 40 | | | |
| General Exam | | 60 | | | |

| Resources |
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| Biostatistics notes will be given to the students. Tıpta İstatistik Yöntem ve Uygulamaları, Yaşar Heperkan. Biyoistatistik, Kadir Sümbüloğlu, Vildan Sümbüloğlu. Sağlık Alanına Özel İstatistikler Yöntemler, Kadir Sümbüloğlu. Bilgisayar (Excel) destekli Uygulamalı İstatistik, Mustafa Akkurt. |