



## **Accepting Applications between December 23, 2024 and January 12, 2025**

### **Biostatistics Master of Science (M.Sc.) Program at Istanbul Medipol University (IMU)**

The main purpose of the Biostatistics Master of Science (M.Sc.) program is to train biostatistics experts who will ensure that the designs, analyses, and interpretation of scientific studies especially in medical sciences are carried out in an accurate manner with state-of-the-art tools and techniques.

The multifaceted and in-depth data flow, started with digitalization becoming more pronounced in every stage and front of our lives, has provided us with opportunities that we did not have before in establishing data-based decision-support systems and policies with timely and accurate analysis of such data. The efficient, accurate, and timely utilization of this ever-expanding data availability from every dimension of life requires professional training both on theory and real-world application of statistical methods. In order to train the statisticians of the future in the era of big-data, Biostatistics and Medical Informatics Department of Istanbul Medipol University (IMU) offers a Biostatistics M.Sc. program since 2022 in Istanbul, Türkiye.

Our students accepted to this Biostatistics M.Sc. Program will gain theoretical and practical knowledge in real-world problems and analysis methods to tackle the above-mentioned challenges as part of their graduate courses as well as their participation in statistical consultancy in the Multi-Omics Design and Analysis Center within the research institute of IMU. ***The program also offers limited number of scholarships through research assistantship.***

At the end of this two-year full-time program, our students will be expected to be equipped with the knowledge and skills to plan and conduct scientific studies, to correctly identify the data structures needed as part of the research objectives, to determine appropriate analysis methods, and to interpret and present analysis results.

The following is a wide span of available graduate courses under this program, not including other elective courses in health sciences and engineering as needed for the concentration:

*BIOS-7001 Biostatistics*

*BIOS-7002 Scientific Research Techniques and Publication Ethics*

*BIOS-7003 Introduction to Statistical Programming (R, SAS, SPSS)*

*BIOS-7004 Introduction to Linear Models*

*BIOS-7005 Analysis of Variance (ANOVA)*

*BIOS-7006 Sampling Methods*

*BIOS-7007 Scientific Research Design*

*BIOS-7008 Non-Parametric Methods*

*BIOS-7009 Principles in the Science of Scientific Research Methods*

*BIOS-7010 Evidence-Based Medicine*

*BIOS-7011 Introduction to Multivariate Analysis*

*BIOS-7012 Demography*

*BIOS-7013 Introduction to Epidemiology and Quantitative Methods*



*BIOS-7014 Introduction to Survival Analysis*  
*BIOS-7015 Introduction to Computational Biology*  
*BIOS-7016 Introduction to Data Science and Machine Learning*  
*BIOS-7017 Causality and Its Analysis in Health Sciences*  
*BIOS-7018 Time Series Analysis*  
*BIOS-7070 Biostatistical Methodological Research: Independent Study*  
*BIOS-7080 Seminar*  
*BIOS-9007 Genetic Epidemiology and Statistical Methods*  
*BIOS-9008 Health Economics*

More details regarding the program can be found at: <https://www.medipol.edu.tr/en/academics/graduate-schools/graduate-school-of-health-sciences/ms-programs/biostatistics-master-science-program>



For Spring 2025 applications, the program has a quota of 5 students from abroad and 5 students with Turkish Citizenship. ***The applications will be accepted between December 23, 2024 and January 12, 2025.***

For questions regarding application process, visa and residency requirements, etc., please contact Medipol International Office at <https://mio.medipol.edu.tr/#>



For program details and scholarships, please contact Prof. Mehmet Koçak at [mehmetkocak@medipol.edu.tr](mailto:mehmetkocak@medipol.edu.tr).

Thank you for your interest in our program.

