

Opportunities in Interdisciplinary Sciences at Jamia Hamdard: Instrumentation and Bio-electronics

UGC has sanctioned an innovative program to Jamia Hamdard (www.jamiahamdard.edu/biochem.asp) in **M.Sc. Bioelectronics & Instrumentation**. The Program is aimed at integrating the knowledge of engineering, especially electronics with life sciences to address and understand various aspects of instruments used in biological and medical applications. M.Sc. Bioelectronics and Instrumentation is a four semester program with multidisciplinary approach covering electronics, instrumentation, life science, material science and MEMS. The fourth semester of this program is internship which provides opportunity to students to work in specialized area of their choice in research institutes of national and international level.

The course is intended to develop skilled manpower for the industry and research organizations for basic research, quality control, product development, regulatory affairs and application of technology. The course curriculum is comprehensively reviewed by committee of leading academicians, scientists and industry experts to meet the current and emerging needs of industry as well as research institutes. Hands-on training is provided to the students. The program offers a unique blend of classroom inputs, interaction of students with industry personnel, academicians and scientists as well as real time exposure to working environment of premier research laboratories.

Candidates with 55% aggregate in B.Sc. Instrumentation/Physics/Electronics/Bioscience or allied disciplines are eligible. For a professional trained in this field, career opportunities lie in Healthcare sector, Analytical instrumentation, Embedded-system, MEMS, Biomaterials and R&D laboratories. The students also have opportunity to do PhD.