



DEPARTMENT OF BIORESOURCES

School of Biological Sciences

UNIVERSITY OF KASHMIR, SRINAGAR-190006

NAAC Accredited Grade A⁺ University

Program Objectives

The purpose of the master's program in Bioresources is to develop knowledge and skills about the conservation and sustainable use of biological resources and to prepare students for a professional career in academia, industry, or research studies. Since Bioresources is a multidisciplinary the theory and practical modules included in P.G Bioresources provide the right mix of animal, plant, and microbial sciences to have an integrated understanding and multidisciplinary approach for problem-solving related to the conservation of biological resources and their sustainable use.

The program was envisaged to establish a sustainable technology for the exploration, development, and commercialization of a spectrum of high-value compounds for human and animal health derived from a diversity of bioresources (plants, animals, and microbes) based on innovation. The program aims to develop a close and profitable interface between academic institutions, research laboratories, and industries for the sustainable utilization of bioresources.

Programme Specific Objectives

- Develop entrepreneurship skills to establish their own industries and to generate opportunities for employment in sectors viz., Apiculture, Aquaculture, Sericulture, Livestock and Aromatic units to introduce job-oriented courses with an immediate relevance to the socio-economic development of the region.
- Develop trained work force for various research organizations to conduct research pertaining to Immunology, Clinical Microbiology, Applied Fisheries, Applied Entomology and livestock.
- To understand the concept and components of biodiversity at organizational and spatial levels and know about the magnitude, distribution and values of biodiversity.
- To familiarize the students with conventional and non-conventional plant, animal, and microbial resources being used by humans. Sustainable utilization of these resources on the principles of modern thoughts and advancements.
- To provide insights into the importance of green energy (bioenergy), pseudocereals, and microbial resources and the role of biotechnology as a tool for harnessing benefits and improvement of bioresources, especially about climate change, energy, and food crises.