

INDIRA GANDHI COLLEGE OF ARTS AND SCIENCE, NELLIKUZHY

DEPARTMENT OF BIOSCIENCE

Program outcomes (PO): MSc. Biotechnology

PO 1	Demonstrate knowledge for in-depth analytical and critical thinking to identify, formulate and solve the issues related to Biotechnology Industry, Pharma industry, Medical or hospital related organizations, Regulatory Agencies, & Academia.
PO 2	Develop an ability to solve, analyze and interpret data generated from experiments done in project work or practical courses.
PO 3	Demonstrate skills to use modern analytical tools/ software/ equipment's and analyze and solve problems in various courses of biotechnology.
PO 4	Appreciate and execute their professional roles in society as biotechnology professionals, employers and employees in various industries, regulators, researchers, educators and managers
PO 5	Adopt code of ethics in professional and social context and demonstrate exemplary professional, ethical and legal behaviors in decision making.
PO 6	Apply written and oral communication skills to communicate effectively in healthcare, industry, academia and research.
PO 7	Apply responsibilities to promote societal health and safety, upholding the trust given to the profession by the society.
PO 8	Develop skills, attitude and values required for self-directed, lifelong learning and professional development.

INDIRA GANDHI COLLEGE OF ARTS AND SCIENCE, NELLIKUZHY

DEPARTMENT OF BIOSCIENCE

M.Sc. MICROBIOLOGY PROGRAMME OUTCOME

PO1	Students will be imparted with the required knowledge about performing experiments, analysis and interpretation of data for the analysis of scientific problems.
PO2	The use of microbiology for the identification of new diseases in hospitals and the society
PO3	Students will have knowledge on the ethics to be followed while working with microorganisms and while manipulating them for daily life situations.
PO4	Students should develop strong research skills, including the ability to design, conduct, and analyze experiments. They should be proficient in using modern microbiological techniques and technologies.
PO5	Students should be able to integrate knowledge from other scientific disciplines with microbiology to address complex biological questions. This could involve applying concepts from biochemistry, genetics, and molecular biology to microbiological research.
PO6	Students should be able to critically analyze scientific literature, evaluate experimental data, and solve complex microbiological problems. They should be able to apply theoretical knowledge to practical situations