

## Program Learning Outcomes (PLOs) BS Environmental Science

Title	Type	Description
PLO 1	Science Knowledge	An ability to apply the fundamental knowledge, and relevant theories of the subject in understanding and addressing complex environmental issues from a problem-oriented, interdisciplinary perspective.
PLO 2	Problem Analysis	Apply core concepts and methods from ecological and physical sciences and their application in environmental problem solving .
PLO 3	Design / Development of solutions	Ability to apply research concepts and methods from physical sciences, economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions
PLO 4	Investigation	Investigations of critical environmental problems from source of environmental issue to design of experiments, analysis and interpretation of data, and synthesis of information to provide valid solutions.
PLO 5	Modern Tool Usage	Create, select and apply appropriate techniques, resources, and modern multidisciplinary analytical tools to interpret and identify the need for analysis, with an understanding of the limitations.
PLO 6	Environment and Society	An ability to understand transnational and National interactions between social and environmental processes and development of strategies for environment friendly industrial solutions.
PLO 7	Environment and Sustainability	Understand and evaluate the sustainability and impact of relevant professional skills in the solution of complex environmental problems
PLO 8	Professional Ethics	Inculcate professional ethics and principles to meet commitments and responsibilities through application of scientific practices.
PLO 9	Individual and Teamwork	Function effectively as an individuals well as a team member or leader in multi-disciplinary settings for successful outcomes.
PLO 10	Scientific Communication	An ability to communicate effectively, orally as well as in writing, on current environmental issues with the scientific community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PLO 11	Project Management and Finance	Demonstrate knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, to manage environmental projects in multidisciplinary environments.
PLO 12	Lifelong learning recognize	Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.