

Faculty of Engineering
Program Learning Outcomes

Masters in Environmental Engineering

Program Learning Outcomes (PLOs): "What a student is expected to know, understand, and/or be able to demonstrate after completing a process of learning"		Characteristics
PLO1	Apply knowledge of physical, chemical, and biological sciences and mathematics appropriate to the field of environmental engineering to tackle more complex, open-ended problems.	Knowledge
PLO2	Apply understanding of material and energy balances to examine the movement of chemicals in air, water and soils related to environmental problems of societal importance.	Skills
PLO3	Use complex lab results, work with experimental data and communicate experimental information through appropriate methods for use in design and practice.	Communication Skills
PLO4	Use engineering concepts and numerical methods towards the design of environmentally friendly systems, components, or processes that consider risk, uncertainty, life cycle principles, and environmental impact.	Numeracy Skills
PLO5	Incorporate advanced knowledge and environmental related practices of information and communication technologies in appropriate ways for professional work purposes.	Information Technology Skills
PLO6	Assume responsibility for the translation of tools and practices of the profession, project management and institutional roles to the conduct of environmental policy and regulations.	Ethical Awareness
PLO7	Apply knowledge related to the global, societal, and environmental implications of environmental engineering solutions based on knowledge of current issues.	Skills
PLO8	Use effective and professional communication methods to collaborate within multi-disciplinary teams.	Communication Skills
PLO9	Apply knowledge of physical, chemical, and biological sciences and mathematics appropriate to the field of environmental engineering to tackle more complex, open-ended problems.	Knowledge