Program Educational Objectives (PEOs)
Faculty of Engineering

1- Program Educational Objectives (PEOs) for Civil and Environmental Engineering Program

PEO 1 – Graduates will practice civil and environmental engineering effectively in public and private sectors, applying engineering principles to design, construct, and manage infrastructure systems including structures, geotechnical works, transportation, water resources, and environmental systems.

PEO 2 – Graduates will contribute to the planning and implementation of sustainable, climate-resilient, and environmentally responsible infrastructure solutions that address local and regional development needs.

PEO 3 – Graduates will demonstrate ethical responsibility, professionalism, and commitment to public safety, environmental protection, and community welfare in engineering decision-making.

PEO 4 – Graduates will engage in lifelong learning, professional certification, postgraduate education, or innovative engineering practice to adapt to evolving technologies and societal challenges.

PEO 5 – Graduates will work effectively in multidisciplinary teams, communicating clearly with engineers, planners, policymakers, and stakeholders.

2- Program Educational Objectives (PEOs) for Mechatronics and Robotics Engineering Program

PEO 1 – Graduates will design, analyze, and implement integrated mechatronic and robotic systems combining mechanical design, electronics, control systems, and intelligent programming.

PEO 2 – Graduates will contribute to industrial automation, smart manufacturing, robotics applications, and emerging AI-driven technologies in local and global industries.

PEO 3 – Graduates will develop innovative solutions, prototypes, and system improvements through applied research, entrepreneurship, or advanced studies.

PEO 4 –Graduates will demonstrate professional ethics, safety awareness, and responsibility in the development and deployment of automated and robotic systems.
PEO 5 – Graduates will pursue lifelong learning and adapt to rapid advancements in robotics, artificial intelligence, embedded systems, and digital transformation.

3- Program Educational Objectives (PEOs) for Chemical Engineering Program

PEO 1 – Graduates will design, analyze, and optimize chemical and industrial processes including energy, petrochemical, environmental, and materials applications.
PEO 2 – Graduates will promote safe, efficient, and environmentally sustainable chemical processing systems aligned with health, safety, and environmental regulations.
PEO 3 – Graduates will work effectively in chemical, petrochemical, energy, and manufacturing industries, or pursue advanced studies and research.
PEO 4 –Graduates will demonstrate integrity, ethical responsibility, and awareness of environmental and societal impacts of chemical engineering activities.
PEO 5 – Graduates will continuously upgrade their technical knowledge and adapt to emerging technologies such as green processes, renewable energy systems, and advanced materials.

4- Program Educational Objectives (PEOs) for Petroleum Engineering Program

PEO 1 – Graduates will successfully practice petroleum engineering in exploration, drilling, reservoir management, production, and field development in oil and gas industries.
PEO 2 – Graduates will apply engineering principles to ensure safe, efficient, and environmentally responsible hydrocarbon resource development in compliance with HSE standards.
PEO 3 – Graduates will analyze complex reservoir and production data, use modern simulation and evaluation tools, and make sound technical and economic decisions.
PEO 4 – Graduates will uphold ethical standards and contribute responsibly to national energy development and environmental protection.
PEO 5 – Graduates will pursue professional certification, leadership roles, entrepreneurship, or advanced postgraduate education.