



ENGINEERING PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

PEO 1

To produce graduates with competent theoretical and technical knowledge and able to communicate effectively and possess positive values in working with other participants in the Civil Engineering industry.

PEO 2

To produce graduates with fundamental knowledge, practical and analytical skills that enable them to undertake Bachelor's Degree in Civil Engineering related programme and continual development through lifelong learning.

ENGINEERING PROGRAMME LEARNING OUTCOMES (PLO)

PLO1: Apply knowledge of applied mathematics, applied science engineering fundamentals and an engineering specialisation to wide practical procedures and practices

PLO2: Identify and analyse well-defined engineering problems reaching substantiated conclusions using codified methods of analysis specific to their field of activity

PLO3: Design solutions for well-defined technical problems and assist with the design of systems, components or processes to meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations

PLO4: Conduct investigations of well-defined problems; locate and search relevant codes and catalogues, conduct standard tests and measurements

PLO5: Apply appropriate techniques, resources, and modern engineering and IT tools to well-defined engineering problems, with an awareness of the limitations

PLO6: Demonstrate knowledge of the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to engineering technician practice and solutions to well-defined engineering problems

PLO7: Understand and evaluate the sustainability and impact of engineering technician work in the solution of well-defined engineering problems in societal and environmental contexts

PLO8: Understand and commit to professional ethics and responsibilities and norms of technician practice

PLO9: Function effectively as an individual, and as a member in diverse technical teams

PLO10: Communicate effectively on well-defined engineering activities with the engineering community and with society at large, by being able to comprehend the work of others, document their own work, and give and receive clear instructions

PLO11: Demonstrate knowledge and understanding of engineering management principles and apply these to one's own work, as a member or leader in a technical team and to manage projects in multidisciplinary environments

PLO12: Recognise the need for, and have the ability to engage in independent updating in the context of specialised technical knowledge