DIPLOMA IN MECHATRONIC ENGINEERING - DEM

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

The Diploma in Mechatronic Engineering programme shall produce semi- professionals who are:

PEO1 Competent in knowledge and skills in the field of mechatronic engineering according to industry requirements.

PEO2 Effective in communication and contribute effectively as a team member with the capability of being a leader.

PEO3 Ethically and socially responsible towards developing the community and the nation.

PEO4 Able to demonstrate entrepreneurship skills and recognize the need of lifelong learning for successful career advancement and able to adapt themselves with new technological challenges in mechatronic fields.

PROGRAMME LEARNING OUTCOMES (PLO)

Upon completion of the programme, graduates should be able to:

PLO1 Apply knowledge of mathematics, science, engineering fundamentals and social sciences to well-defined mechatronic engineering procedures and practice;

PLO2 Analyse well-defined mechatronic engineering problems with respect to operation and troubleshooting;

PLO3 Conduct investigations and assist in the design of solutions for mechatronic engineering systems;

PLO4 Apply appropriate techniques, resources, and engineering tools to well-defined mechatronic engineering activities, with an awareness of the limitations;

PLO5 Demonstrate an awareness and consideration for societal, health, safety, legal and cultural issues and their consequent responsibilities;

PLO6 Communicate effectively with the engineering community and society at large;

PLO7 Function effectively as an individual and as a member in diverse technical teams;

PLO8 Demonstrate an understanding of professional ethics, responsibilities and norms of engineering practices;

PLO9 Demonstrate an awareness of management and entrepreneurship;

PLO10 Demonstrate an understanding of the impact of engineering practices, taking into account the needs for sustainable development;

PLO11 Recognise the needs for professional development and to engage in independent and lifelong learning.