

Faculty of Engineering
Mechanical and Mechatronic Engineering Program
Program Learning Outcomes

Diploma in Mechanical and Mechatronic Engineering

PLO No	PLO Statement	Characteristics
PLO1	Apply significant knowledge of engineering, science, and mathematics for solving Mechanical and Mechatronic Engineering problems.	Knowledge
PLO2	Prepare solutions for well-defined tasks related to Mechanical and Mechatronic Engineering.	Skills
PLO3	Communicate appropriately on engineering activities, with diverse audiences.	Communication Skills
PLO4	Utilize a broad range of numerical skills for solving Mechanical and Mechatronic Engineering problems.	Numeracy Skills
PLO5	Use a range of information and communication technology tools and techniques in the discipline of Mechanical and Mechatronic Engineering.	Information Communication Technology Skills
PLO6	Practice significant levels of ethical principles and values in the fields of Mechanical and Mechatronic Engineering.	Ethical Awareness
PLO7	Develop leadership and teamwork skills with full accountability for achieving goals and objectives.	Leadership and Teamwork
PLO8	Employ substantial entrepreneurial and employability skills in a work environment.	Entrepreneurial skills
PLO9	Identify the need for lifelong learning in the context of technological change related to Mechanical and Mechatronic Engineering.	Lifelong Learning Skills

Bachelor in Mechanical and Mechatronic Engineering

PLO No	PLO Statement	Characteristics
PLO1	Apply advanced knowledge of engineering, science, and mathematics for solving Mechanical and Mechatronic Engineering problems.	Knowledge
PLO2	Design Mechanical and Mechatronic Engineering systems for addressing complex engineering problems in accordance with social, environmental, and economic factors, and safety requirements.	Skills
PLO3	Communicate effectively on complex engineering activities, with adaptation for appropriate audiences.	Communication Skills
PLO4	Apply appropriate numerical and analytical techniques for modelling and solving Mechanical and Mechatronic Engineering problems.	Numeracy Skills
PLO5	Use relevant information and communication technologies, including engineering software and simulation tools, in Mechanical and Mechatronic Engineering practice.	Information Communication Technology Skills
PLO6	Practice ethical principles and professional responsibility in the Mechanical and Mechatronic Engineering field.	Ethical Awareness
PLO7	Develop advanced leadership and teamwork skills with full accountability for achieving goals and objectives.	Leadership and Teamwork
PLO8	Apply highly specialized entrepreneurial and employability skills suitable for professional work environments.	Entrepreneurial skills
PLO9	Implement lifelong learning independently for integration of new knowledge using appropriate learning strategies.	Lifelong Learning Skills