



KEMENTERIAN PENDIDIKAN TINGGI



DIPLOMA IN MECHANICAL ENGINEERING (MATERIAL) - DMB

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

The Diploma in Mechanical Engineering (Material) programme shall produce semiprofessionals who are:

- PEO1** Competent in knowledge and skills in the field of mechanical 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 a successful career advancement and able to adapt themselves with new technological challenges in mechanical and material 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 mechanical engineering procedures and practices with specialisation in material;
- PLO2** Analyse well-defined mechanical engineering problems with respect to operation and maintenance, including troubleshooting
- PLO3** Conduct investigations and assist in the design of solutions for mechanical engineering systems
- PLO4** Apply appropriate techniques, resources, and engineering tools to well-defined mechanical 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