school of micro electronic engineering

UNIVERSITI MALAYSIA PERLIS

SOARING UPWARDS

Vision & Mission

A world-class academic and research center in Microelectronic Engineering

Realizing the country's aspirations in the fields of Microelectronic Engineering and contributing in technology advancement

PEO1 — LEADERS

Graduates who have demonstrated career advancement in the field of Microelectronic Engineering or related engineering field

PEO2 — PROFESIONAL SOCIETY

Graduates who are involved in a professional body or society

PEO3 — LIFE LONG LEARNING

Graduates who pursue lifelong learning

PO1 — ENGINEERING KNOWLEDGE

Apply knowledge of mathematics, natural science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems

PO2 — PROBLEM ANYLASIS

Identify, formulate, conduct research literature and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences

PO3 — DESIGN & SOLUTIONS

Design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations

PO4 — INVESTIGATION

Conduct investigations of complex problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions

PO5 — MODERN TOOL USAGE

Create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling, to complex engineering problems, with an understanding of the limitations

PO6 — ENGINEER & SOCIETY

Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solutions to complex engineering problems

PO7 — ENVIRONMENT & SUSTAINABILITY

Understand and evaluate the sustainability and impact of professional engineering work in the solution of complex engineering problems in societal and environmental contexts including ability to have entrepreneurship skills

PO8 — ETHICS

Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice

PO9 — INDIVIDUAL & TEAMWORK

Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings

PO10 — COMMUNICATION

Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions

PO11 — LIFE LONG LEARNING

Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change

PO12 — PROJECT MANAGEMENT

Demonstrate knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.