



Outcome Based Education (OBE) system

Getting to know the mapping of Programme Outcomes (POs), Programme Educational Objectives (PEOs), Mission and Vision of FOE for the degree

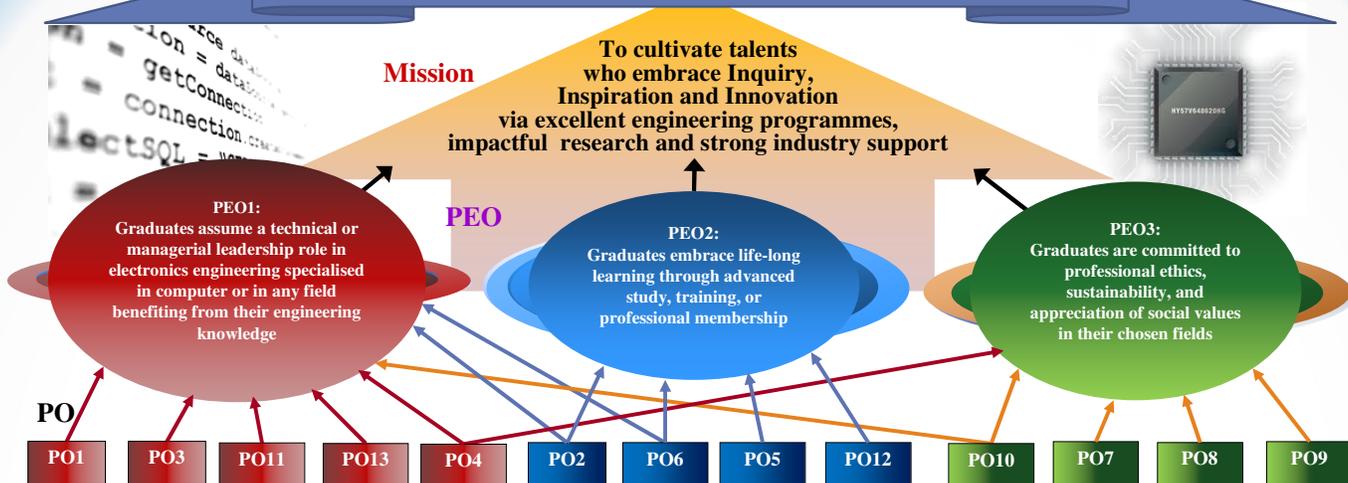
B.Eng. (Hons) Electronics majoring in **Computer**

Vision

To be a leading engineering faculty with global recognition for creation and dissemination of knowledge

Mission

To cultivate talents who embrace Inquiry, Inspiration and Innovation via excellent engineering programmes, impactful research and strong industry support



PO	PEO	Description of how POs are linked to the PEOs
PO1	PEO1: Graduates assume a technical or managerial leadership role in electronics engineering specialised in computer or in any field benefiting from their engineering knowledge	Acquire and apply knowledge of mathematics, science and engineering fundamentals to solve complex engineering problems -Graduates have good fundamental knowledge and therefore can easily adapt to advances in engineering -This will ensure graduates of high calibre who are equipped with scientific principles can support the development of engineering practices -Related to PEO 1
PO3		Identify and analyse complex engineering problems to reach substantiated conclusions using fundamental principles of mathematics, science and engineering -Graduates identify, analyse and recommend solutions to complex problems -Related to PEO 1
PO11		Function effectively as an individual, and as a member or leader of a team in multidisciplinary environments -Graduates are competent leaders and team members -Related to PEO 1
PO2	PEO2: Graduates embrace life-long learning through advanced study, training, or professional membership	Acquire technical competencies in a specialised engineering discipline to solve complex engineering problems -Graduates have comprehensive knowledge in their specialised engineering field to solve complex problems -The programme motivates graduates for continuous self improvement -Related to PEOs 1 and 2
PO4		Design solutions for complex engineering problems that meet specified needs with appropriate considerations for public health and safety, society and the environment -Graduates design solutions that comply with social and environmental obligations -Related to PEOs 1 and 3
PO5	PEO3: Graduates are committed to professional ethics, sustainability, and appreciation of social values in their chosen fields	Conduct research-based investigations into complex engineering problems to reach valid conclusions -Graduates resolve complex problems by conducting research independently -Related to PEO 2
PO6		Create, select and apply appropriate techniques, resources, and modern engineering and IT tools to complex engineering activities -Graduates create or identify the latest tools, methodologies and proactively apply them -Related to PEOs 1 and 2
PO12		Recognise the need for, and acquire the ability to engage in life-long learning amidst change -Graduates are inquisitive and enthusiastic for knowledge and experiences -Related to PEO 2
PO7	PEO3	Apply appropriate reasoning to assess societal, health, safety, legal and cultural issues that are relevant to professional engineering practice -Graduates understand their roles as engineers for the betterment of the society, which include societal, health, safety and cultural responsibilities -Related to PEO 3
PO8		Understand the impact to sustainability, society and the environment in the design and development of professional engineering solutions -Graduates apply sustainable and cost-effective solutions in their professional engineering practices -Related to PEO 3
PO9	PEO3	Apply and commit to professional ethics and responsibilities in engineering practice -Graduates are ethical and disciplined in their engineering practices -Related to PEO 3
PO10		Communicate effectively on complex engineering activities in both oral and written forms -Graduates are articulate when communicating while open to feedback and criticism -Related to PEOs 1 and 3
PO13	PEO3	Demonstrate engineering and management principles, as a member and leader of a team, in managing projects in multidisciplinary environments -Graduates demonstrate engineering and management principles in multidisciplinary environments -Related to PEO 1
PO13		Demonstrate engineering and management principles, as a member and leader of a team, in managing projects in multidisciplinary environments -Graduates demonstrate engineering and management principles in multidisciplinary environments -Related to PEO 1