



## VISI UMP

Menjadi universiti teknikal berteraskan kompetensi bertaraf dunia

## MISI UMP

Kami menyediakan pendidikan teknikal berkualiti tinggi melangkaui kehendak pihak berkepentingan dengan menawarkan program akademik yang cemerlang melalui persekitaran kondusif bagi menggalakkan kreativiti dan inovasi.

## VISION FKEE

To be a world-class faculty for competency based technical education in electrical & electronics engineering.

## MISSION FKEE

- To provide the highest quality competency based technical education in electrical & electronics engineering to meet & exceed the needs of stakeholders.
- To continually improve our business through innovation & technology development by providing industrial-based facilities in line with the university focus areas.
- To develop our associates' potential through participative & team involvement by providing a conducive environment that encourages creativity & innovativeness towards becoming a learning organization

## Programme Educational Objective (PEO):

1. Have strong fundamental knowledge in electrical and electronics engineering.
2. Are competent in technical skills specializing in areas related to niche area of university.
3. Have right attitudes and ethics necessary in fulfilling their responsibilities towards society as vicegerent on earth.
4. Have the knowledge and interest of technopreneurship.

| PEO  | PO    | Keyword             | Description                                                                                   |
|------|-------|---------------------|-----------------------------------------------------------------------------------------------|
| PEO1 | PO 01 | technical knowledge | Acquire and apply knowledge of sciences and electrical & electronics engineering fundamentals |
| PEO2 | PO 02 | technical skills    | Acquire in-depth technical competency in a specific engineering discipline                    |



| PEO  | PO    | Keyword                  | Description                                                                                                                   |
|------|-------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| PEO2 | PO 03 | critical thinking        | Identify, formulate and provide effective solution to engineering problem                                                     |
| PEO2 | PO 04 | interdisciplinary design | Design and evaluate the performance of a system using integrated and interdisciplinary approaches.                            |
| PEO2 | PO 05 | sustainable design       | Describe the design principles for sustainable development                                                                    |
| PEO3 | PO 06 | professional & ethics    | Demonstrate the professional and ethical responsibilities as an engineer                                                      |
| PEO3 | PO 07 | communication            | Communicate effectively with multidisciplinary professions and community at large                                             |
| PEO3 | PO 08 | leadership/teamworking   | Function effectively as an individual and in a group with the capacity to be leader                                           |
| PEO3 | PO 09 | social responsibility    | Explain the impact of engineering solution in societal, cultural, global and environmental context.                           |
| PEO1 | PO 10 | lifelong learning        | Recognize the needs and possess the capability in life-long learning.                                                         |
| PEO2 | PO 11 | niche                    | Utilize techniques, skills, and modern engineering tools necessary for engineering practice and adaptable to industrial needs |
| PEO4 | PO 12 | technopreneurship        | Explain the technopreneurship concept in engineering practice.                                                                |



## Programme Educational Objectives (PEO):

1. Have strong fundamental knowledge in electrical and electronics engineering. (LO1)
2. Are competent in technical skills specializing in areas related to niche area of university. (LO2)
3. Have right attitudes and ethics necessary in fulfilling their responsibilities towards society as vicegerent on earth. (LO6)
4. Have the knowledge and interest of technopreneurship. (LO8)

## UMP PLOs

1. Acquire and apply knowledge of sciences and electrical & electronics engineering fundamentals
2. Acquire in-depth technical competency in a specific engineering discipline
3. Identify, formulate and provide effective solution to engineering problem
4. Design and evaluate the performance of a system using integrated and interdisciplinary approaches.
5. Describe the design principles for sustainable development
6. Demonstrate the professional and ethical responsibilities as an engineer
7. Communicate effectively with multidisciplinary professions and community at large
8. Function effectively as an individual and in a group with the capacity to be leader
9. Explain the impact of engineering solution in societal, cultural, global and environmental context.
10. Recognize the needs and possess the capability in life-long learning.
11. Utilize techniques, skills, and modern engineering tools necessary for engineering practice and adaptable to industrial needs
12. Explain the technopreneurship concept in engineering practice.

## EAC PLOs

1. ability to acquire and apply knowledge of science and engineering fundamentals;
2. acquired in-depth technical competence in a specific engineering discipline;
3. ability to undertake problem identification, formulation and solution;
4. ability to utilise systems approach to design and evaluate operational performance;
5. understanding of the principles of design for sustainable development;
6. understanding of professional and ethical responsibilities and commitment to them;
7. ability to communicate effectively, not only with engineers but also with the community at large;
8. ability to function effectively as an individual and in a group with the capacity to be a leader or manager ;
9. understanding of the social, cultural, global and environmental responsibilities of a professional engineer; and
10. recognising the need to undertake life-long learning, and possessing/acquiring the capacity to do so.



## **ABET PLOs**

1. an ability to apply knowledge of mathematics, science, and engineering
2. an ability to design and conduct experiments, as well as to analyze and interpret data
3. an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
4. an ability to function on multi-disciplinary teams
5. an ability to identify, formulate, and solve engineering problems
6. an understanding of professional and ethical responsibility
7. an ability to communicate effectively
8. the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
9. a recognition of the need for, and an ability to engage in life-long learning
10. a knowledge of contemporary issues
11. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.