

LEE KONG CHIAN FACULTY OF ENGINEERING AND SCIENCE DOCTOR OF PHILOSOPHY (0540)
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Programme Aims:

The Doctor of Philosophy programme aims to cater for:

1. Graduates who wish to obtain an in-depth study in mathematics and statistics.
2. Candidates from the industry who are keen in continuous learning and upgrading their knowledge in mathematics and statistics.

Programme Educational Objectives (PEO):

The objectives of the Doctor of Philosophy programme are to produce:

- PEO 1 - Graduates who are competent in practising advanced scientific principles in academia, science and technology.
- PEO 2 - Graduates who engage in the activities that demonstrate communication and leadership role.
- PEO 3 - Graduates who practice professional ethics and lifelong learning with awareness in sustainability issues.

Programme Learning Outcome (PLO):

- PLO 1 - Demonstrate in-depth understanding of frontier knowledge by generating substantial and original contributions to the areas of mathematics.
- PLO 2 - Synthesise existing and new knowledge in mathematics fields to develop new findings.
- PLO 3 - Conduct rigorous research and investigation with minimal supervision.
- PLO 4 - Interact effectively with peers and stakeholders.
- PLO 5 - Demonstrate effective communication skills with peers and stakeholders.
- PLO 6 - Use suitable digital skills to research complex problems.
- PLO 7 - Use suitable analytical tool techniques to research complex problems.
- PLO 8 - Demonstrate intellectual leadership qualities and management skills.
- PLO 9 - Demonstrate commitment to lifelong learning and personal development.
- PLO 10 - Exhibit capabilities of having an entrepreneurial mindset to the areas of mathematics.
- PLO 11 - Conduct research while adhering to legal, ethical, professional and sustainable practices.