

Doctor of Philosophy (Science) (NEC0530 Physical Science)

Programme Educational Objectives (PEO):

The objectives of the Master of Science programme are to produce:

1. Graduates competent in practising advanced scientific principles in science, technology and engineering industries.
2. Graduates engage in the activities that demonstrate communication and leadership role.
3. Graduates practising professional ethics and lifelong learning with awareness in sustainability issues.

Programme Learning Outcomes (PLO):

At the end of the programme, graduates must be able to:

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

Mapping of Programme Learning Outcomes (PLO) and Programme Educational Objectives (PEO):

Programme Learning Outcomes (PLO)	Programme Educational Objectives (PEO)		
	PEO 1	PEO 2	PEO 3
PLO 1	√		
PLO 2	√		
PLO 3	√		
PLO 4		√	
PLO 5		√	
PLO 6	√		
PLO 7	√		
PLO 8		√	
PLO 9			√
PLO 10			√
PLO 11			√