

Master of Electrical Engineering (Structure B)

DURATION 1 YEARS – 3 YEARS (Full time)
2 YEARS – 4 YEARS (Part time)

PROGRAM INFO

Master of Electrical Engineering (Structure B) is a half research program where candidates are given unique opportunity to follow their interest in a specialized area of research of Electrical / Communication Systems Engineering for 1-4 years and make an important academic contribution to the knowledge of chosen research area.

This research will be accomplished in the form of Dissertation which contributes to 20 credit hours. Apart from that the student will be attending 7 post graduate classes in which 3 courses are core courses and 4 are elective courses amounting to 21 credit hours where the students will be learning advanced technical courses in the field of electrical power and communications systems.

ENTRY REQUIREMENT

- A bachelor's degree in the relevant domain with 2nd class upper with honours or CGPA 2.75 and above, or
- A bachelor's degree in the relevant domain with 2nd class lower with honours or CGPA 2.50 – 2.74, and one (1) year experience in the domain, or
- A bachelor's degree in the relevant domain with CGPA below 2.50 and five (5) years working experience in the domain.

For International students: Test of English as a Foreign Language (TOEFL) score of 500 or International English Language Testing System (IELTS) score of 5.0 or its equivalent.

CORE COURSES (9+20 CREDIT HOURS)

- Advanced Engineering Mathematics
- Engineering Diagnostic Tools
- Research Methodology
- Research Project – Dissertation (20 Credit hours)

FEE STRUCTURE

- **RM24 700.00 (MALAYSIAN)**
- **RM27 700.00 (INTERNATIONAL)**

CONTACT:

CoGSHelpdesk@uniten.edu.my



KEY RESEARCH AREAS

- Automation and Embedded Computing System
- Communications Systems and Networks
- Micro and Nano Engineering
- Photonics Technologies
- Radio Frequency and Microwave Engineering
- Signal Processing and Control Systems
- System and Machine Intelligence
- Distributed Generation
- High Voltage Systems
- Power Quality
- Power System Analysis
- Renewable Energy and Energy Efficiency
- Smart Grid

ELECTIVE COURSES

(12 CREDIT HOURS - ANY 4 SUBJECTS)

- Introduction to Advanced Communication System
- Advanced Applied Telecommunication System
- Local Area Network Design and Analysis
- Cellular and PCS Radio System
- Advanced Digital Signal Processing
- Optical Fiber Communication
- Laser Technology and Applications
- Digital Communications Systems
- Antennas Technology for Wireless Communications
- Power System Dynamics
- High Voltage Direct Current Transmission System (HVDC)
- Power Systems Operation and Planning
- High Voltage Engineering
- Power System Protection
- Power System Steady State Analysis
- Alternative Energy Sources for Electricity Generation
- Computer Controlled Systems