

FACULTY OF MEDICINE AND  
HEALTH SCIENCES

# MASTER OF MEDICAL EQUIPMENT ENGINEERING (COURSEWORK)

JPT/BPP (N/725/7/0082) (MQA/PA12121) 11/24

Intake



October

Duration



Full-time : 4 years

## OVERVIEW

The Perdana University Master of Medical Equipment Engineering (MMEE) is a new Programme in Malaysia. Medical Equipment Engineering is a multidisciplinary field that combines Biomedicine and Engineering, applying engineering principles and materials to medicine and healthcare. This Programme is a confluence of Engineering, Technology and Medical Sciences focusing on developing, designing and improving medical equipment and devices.

## ENTRY REQUIREMENTS

### Bachelor's Degree

Science : Minimum CGPA of 3.30

Arts : Minimum CGPA of 3.75

## ENGLISH LANGUAGE REQUIREMENTS

### Local Students

MUET score minimum band 3

### International Students

TOEFL score of at least 550

OR

IELTS score of at least 5.5

## SHORTLISTED CANDIDATES

Interview by faculty members

## Career Prospects

- Academia
- Application Specialist
- Medical Physicist
- Healthcare Technologist
- Radiation Safety Officer
- Research Scientist
- Diagnostics Support Specialist
- Medical/Equipment/Biomedical/Control Engineer/Supervisor or Manager
- Rehabilitation Engineer/ Control Technologist

## Curriculum Structure

### Core Modules

- Medicine and Surgery for Engineers
- Medical Signals, Circuit and Control
- Medical Engineering Management
- Medical Engineering Design
- Telemedicine and Medical Data Communication
- Engineering for Medicine and Biology
- Research Methodology
- Research and Project Work
- Any three(3) elective modules

### Elective Modules

- Applied Biomechanics
- Rehabilitation Engineering and Assistive Technology
- Biomechatronics and Medical Robotics
- Medical Imaging Systems
- Medical Imaging Processing and Analysis
- Fundamentals of Medical and Radiation Physics
- Medical Electronics and Instrumentation
- Medical Sensors and Devices
- Medical Device Design
- Applied Biomaterial
- Tissue Engineering
- Bionics and Artificial Organ Design

- ▶ Candidate must complete all the 8 core modules including Research Methodology and 3 elective modules



## Developed Programme

1

To produce responsible medical equipment engineers with exceptional ethical values and character to meet the professional standards and proficiency required to fulfill Malaysia's technological advancement, aspirations and global demand

2

To produce medical equipment engineers competent in the use of current advanced technology and emerging engineering challenges in the health sector

3

To produce medical equipment engineers who are conscious of environmental challenges and prepared to find effective solutions to these challenges through lifelong learning and professional updates

4

To produce medical equipment engineers sought after by potential employers for their technological and managerial skills



// The Perdana University Master of Medical Equipment Engineering (MMEE) is an innovative programme involving the application of the engineering principles and design concept to medicine for healthcare purposes //

## Study Mode

- Lectures
- Problem based learning
- Tutorials
- Seminars
- Self-directed learning
- Projects

## Why Master of Medical Equipment Engineering at Perdana University?

- The first and the only Medical Equipment Engineering programme in Malaysia

- Wide areas of specialisation within Medical Equipment Engineering

- Reasonable fees

## About Perdana University

Perdana University (PU) is a prominent emerging private institution situated in Kuala Lumpur, Malaysia. It specializes in delivering academic programmes in Health Sciences, Social Sciences, and Technology at various educational levels, including foundation (pre-university), undergraduate, and postgraduate studies.

The official incorporation of Perdana University took place in the year 2011. Notably, in 2017, Perdana University received the prestigious Tier 4: Very Good rating in the Malaysian Higher Education Rating System (SETARA) for 2017 from the Ministry of Higher Education Malaysia (MOHE).



PERDANA UNIVERSITY RECOGNISED BY :



MINISTRY OF EDUCATION  
THE PEOPLE'S REPUBLIC OF CHINA



PERDANA UNIVERSITY AWARDED BY :



THE BRANDLAUREATE  
CSR BRANDLEADERSHIP  
AWARDS 2018



Documents required for application

1. Student application form
2. Bursary application form
3. Copy of NRIC or Passport
4. Transcript and Certificate of highest qualification
5. English test results (if applicable)



Speak to our friendly  
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Perdana University

