ENTRY REQUIREMENTS

Masters Programme

To be eligible to apply for a Master's degree programme at Universiti Tenaga Nasional (UNITEN), an applicant should already possess a good Bachelor's degree with honours from UNITEN or from other recognised institutions of higher learning or equivalent qualifications in a related field accepted by the university's graduate admission committee. Those with second class upper or with CGPA of 2.75 or better will be given preference.

Doctoral Programme

To be eligible to apply for a doctoral programme at UNITEN, an applicant should already possess a Master's degree from UNITEN or from other recognised institutions of higher learning in a related field accepted by the university's graduate admission committee. Those who possess degrees with research background will be given preference.

HOW TO APPLY

Step 1

Application forms can be downloaded from www.uniten.edu.my/postgraduate
Kindly contact us at 603-89212020 ext: 3124/3019/3016 to have the registration forms sent to you.

Step 2

Send the completed application form together with all necessary documents together with the non-refundable application fee to:

College of Graduate Studies

Universiti Tenaga Nasional

KM7 Jalan Kajang- Puchong

43009 Kajang

Selangor

Malaysia

UNIVERSITI TENAGA NASIONAL
(398494-K)

MSC-Status Company

Further enquiries can be made to:
Administrative Officer
College of Graduate Studies
KM7, Jln Kajang - Puchong
43009 Kajang, Selangor, Malaysia
Tel : 603-89212020 ext 3124/3019/3016
Fax : 603-89212065
E-mail : postgrad@uniten.edu.my

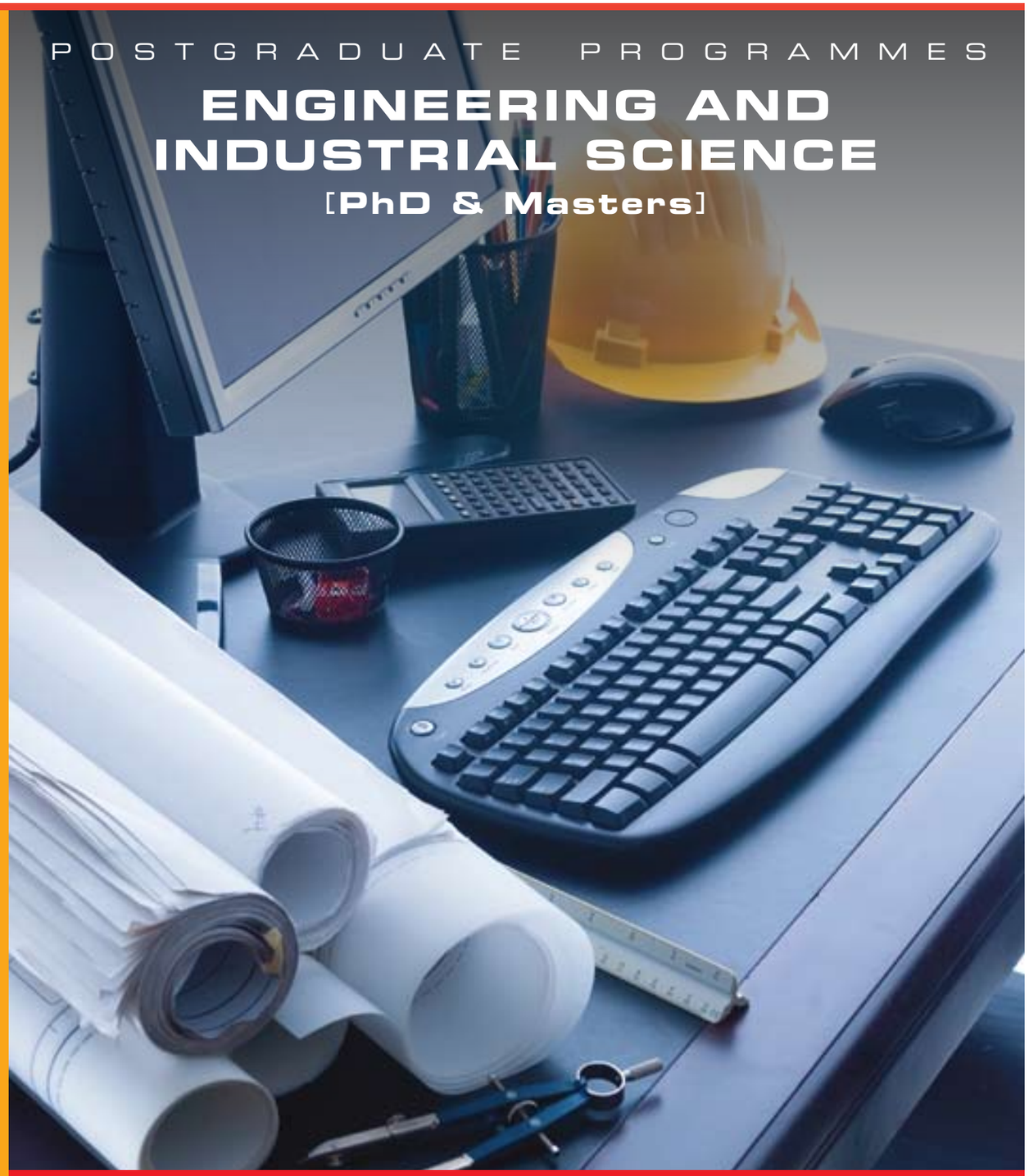
Website : www.uniten.edu.my

UNIVERSITI TENAGA NASIONAL
(398494-K)

POSTGRADUATE PROGRAMMES

ENGINEERING AND INDUSTRIAL SCIENCE

[PhD & Masters]



UNITEN GENERATES PROFESSIONALS

POWERING INNOVATION, ENGINEERING A BETTER FUTURE

The Engineering and Industrial Science programmes offer modules that are led by experts that are renowned in their respective fields. Leading research into cutting-edge technology, alongside hands-on training supported by Tenaga Nasional Berhad, generate results that are highly beneficial for any professional looking for career and personal excellence. UNITEN engineering programmes are also accredited and recognised by local and international professional qualifying bodies.

RESEARCH - AREAS OF FOCUS

Sustainable Energy Research and Education (SERENE), Communications Network, Telecommunication System, Photonic Technologies, Computer Engineering, RF and Microwave, Microelectronics, Embedded System, Signal Processing and Control Systems (SPAC), Power Quality, Power Engineering, Electro-Magnetic Fields (EMF), Energy Conversion, CFD, Power Generation and Alternative Energy, Advanced Manufacturing, Mobile Robotic, Advanced Materials, Computational Mechanics, Structure and Highway, Water and Environmental Engineering, Geotechnic and Geology, Materials Science, Environmental Science and Chemical Technology, Industrial and Applied Mathematics, Numerical and Scientific Computing, Applied Optics, Applied Statistics.

DOCTOR OF PHILOSOPHY (PhD)

Engineering Programmes (Structure A : by Full Research)

UNITEN offers PhD in the field of:
Electrical Engineering
Mechanical Engineering
Civil Engineering
Industrial Science

Gaining a PhD degree can take a candidate anywhere from 2 to 7 years. A PhD degree provides the opportunity to do in-depth study in a topic of interest and PhD holders are normally considered an authority in their area of expertise. PhD candidates are also expected to give an original contribution to the existing body of knowledge. PhD in Industrial Science is offered for those who intend to pursue advanced research in the area of engineering mathematics, engineering chemistry and engineering physics.

MASTERS DEGREE

UNITEN Master's Degree Programmes (Structure A and Structure B)

Structure A is by Full Research
Masters programmes offered under Structure A are:
Master of Electrical Engineering
Master of Mechanical Engineering
Master of Civil Engineering
Master of Information Technology
Master of Industrial Science

Structure B is by coursework and research
Masters programmes offered under Structure B are:
Master of Electrical Engineering
Master of Mechanical Engineering
Master of Civil Engineering

Master of Electrical Engineering

(Structure B)
The programme consists of 3 core courses and 4 elective courses.

Core Courses
Research Methodology
Advanced Engineering Mathematics
Engineering Diagnostic Tools

Elective Courses (choose any 4)
Power Systems Steady State Analysis
Power Systems Dynamics
High Voltage DC Transmission Systems
High Voltage Engineering
Power Systems Operations & Planning
Power Systems Protection
Intro to Advanced Communication System
Advanced Applied Telecommunication System
Local Area Network Design & Analysis
Cellular & PCs Radio System
Antenna Network Technologies & Architecture
Broadband Network Technologies & Architecture
Satellite Communications Theory

Plus Research Dissertation

Master of Mechanical Engineering

(Structure B)
The programme consists of 3 core courses and 4 elective courses.

Core Courses
Research Methodology
Advanced Engineering Mathematics
Mechanical Engineering Analysis

Elective Courses (choose any 4)
Thermal System Design & Optimisation
Efficient Energy Utilisation
Combustion Engineering
Fuel Management
Environmental & Regulatory Issues
Advanced Materials Processing
Failure Analysis
Mechanical Behaviour of Materials
Advanced Manufacturing Systems
Artificial Intelligence
Computational Dynamics
Industrial Management System

Plus Research Dissertation

Master of Civil Engineering

(Structure B)
The programme consists of 5 core courses and 2 elective courses.

Core Courses
Research Methodology
Advanced Engineering Mathematics
Advanced Geotechnical Engineering
Advanced Reinforced Concrete & Composite Design
Advanced Water Resources Engineering

Elective Courses (choose any 2)
Environmental Engineering
Advanced Traffic & Transportation Engineering
Advanced Rock Mechanics & Engineering Geology
Advanced Structural Analysis
Advanced Computer Applications
Geo-environmental Engineering & Sustainability

Plus Research Dissertation

Credit Hours

Courses (7 Subjects)	21
Research Project	20
Total	**41**

TESTIMONIAL

"UNITEN provides a lot of advantages for me. Lecturers with experience in their respective fields create insightful discussions in class. And with all the facilities and IT support that I need, the learning process is made easier. I'm proud to be a UNITEN student."

Parulian Noviandri
Master of Mechanical Engineering
(Student from Indonesia)
2007