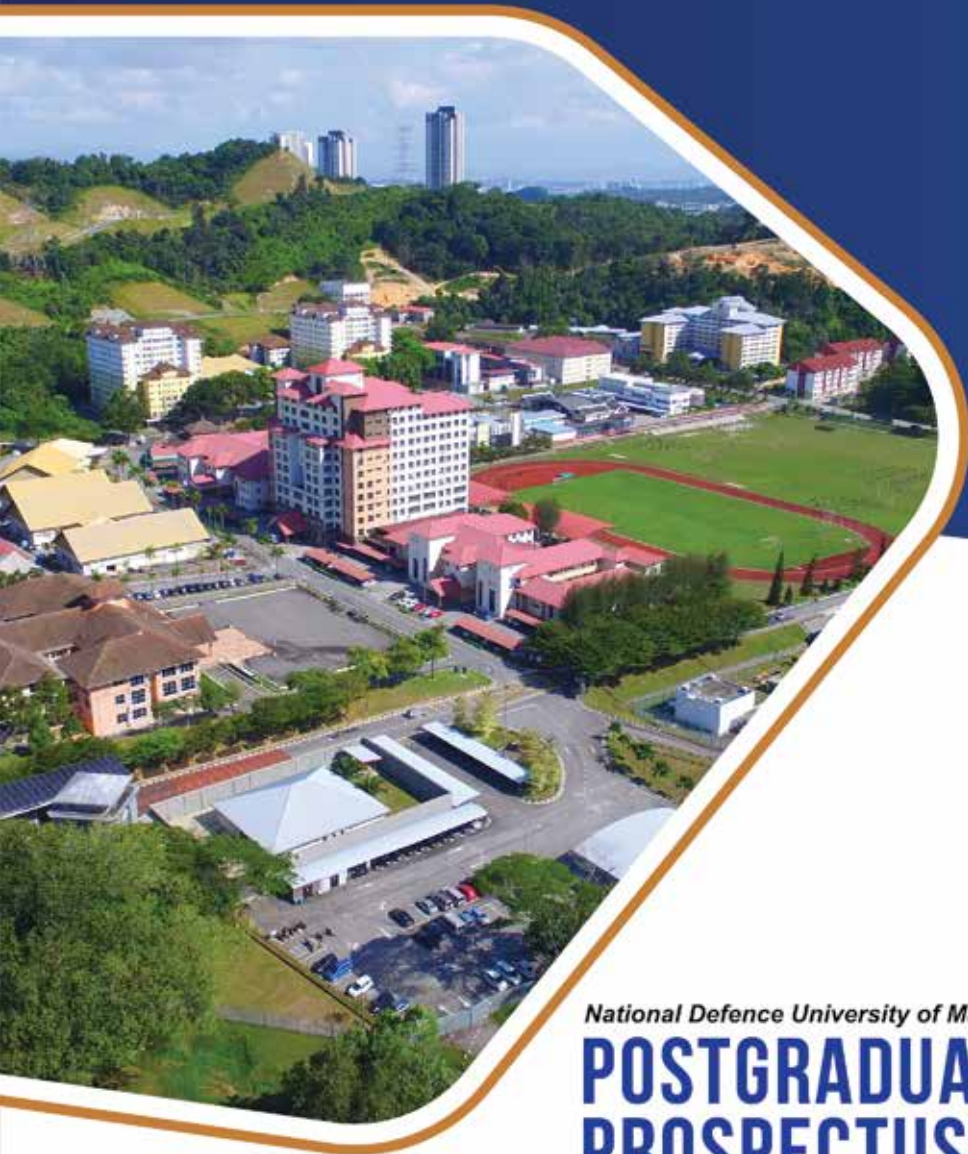




UPNM
National Defence University of Malaysia
Prestige • Service • Integrity



PUSAT PENGAJIAN SISWAZAH
Centre for Graduate Studies



National Defence University of Malaysia

POSTGRADUATE PROSPECTUS

2022 - 2026

ABOUT US

The National Defence University of Malaysia (NDUM) has its origins in Akademi Tentera Malaysia (ATMA) or the Malaysian Armed Forces Academy which was established on June 1, 1995. ATMA was also branded as the sole organisation responsible in upgrading the knowledge and academic status of officers of the Malaysian Armed Forces through offering bachelor degree programmes in the fields of engineering, sciences and management, while at the same time meeting the basic requirements of military training.

Having established as a university in November 2006, NDUM today prepares future military and civilian leaders to address national and international defence and security challenges through multi-disciplinary educational programmes, research, professional exchanges and outreach.

To date, NDUM has already chalked up over 15 years of experience in education and training with thousands of graduates both at the bachelors and postgraduate levels in the fields of engineering, computer science, management and medicine.



UPNIM

University of Malaysia

OUR LOCATION

NDUM is strategically located in the heart of Kuala Lumpur (KL) and 20km from Putrajaya, the federal administrative centre of Malaysia which can be accessed through many means of public transportation such as KTM Commuters, buses, and others. NDUM is also nearby the major roads and highways providing easy access to KL, Putrajaya and the surrounding regions.

57 KM
to Kuala Lumpur
International Airport (KLIA)

15 KM
to Kuala Lumpur City Centre

3.8 KM
to **Terminal Bersepadu Selatan**
Integrated Transportation Hub (TBS-BTS)

24 HOURS
Bus and train service from
(TBS-BTS)



UNIVERSITI PERTAHANAN NASIONAL MALAYSIA

MISSION, VISION & PHILOSOPHY



MISSION

NDUM is committed to excellence in serving the nation as a premier defence university for leadership and professional development, knowledge dissemination, and application of defence science and technology



VISION

To be the premier defence university for education, training and knowledge creation



PHILOSOPHY

The Premier National Institution dedicated to produce prominent intellectual leaders of character committed towards selfless service to the nation in furtherance of national strategic interests

WHY STUDY AT A HIGHER LEVEL?

Do you have an intellectual curiosity about a specialised topic? Maybe you wish to boost your employment prospect or develop your career, or change direction completely? NDUM welcomes students from all backgrounds.

- Specialist skills and applied experience
- Enhanced knowledge in relevance topics
- Entry into specific occupations
- The opportunity to conduct original research that contributes to knowledge in that field
- Smaller classes and closer links with staff
- Evidence of high academic attainment and self-discipline a mark of independent research capability and original thought, particularly for research-based qualifications
- A marketable qualification which could make you more employable, qualified, and in many cases, more financially secure. Research shows that study at postgraduate level (master's and PhD) could give students a salary advantage.
- NDUM students gain more than just intellectual skills and professional knowledge; our graduate are work-ready, culturally aware, willing to play an active role in the community and globally conneted.



REASON TO STUDY AT NDUM

Study at one of the most prominent Defence University in the world.

- 📖 As a graduate student, you will have the chance to select from our wide research offerings (refer to our research fields) to better match your field of interest.
- 📖 Our academic staff are subject matter experts with excellent track record in supervision of PhD and Masters research students.
- 📖 Well-equipped NDUM research facilities and access to defence & security related facilities.
- 📖 Provide excellent training ground for writing research papers/journals. Contribution to knowledge with an opportunity to co-author papers in highly ranked journals.
- 📖 Strategic location (very near to Kuala Lumpur city), with easy access to famous landmarks and public transportations.

FUNDING ASSISTANCE & SCHOLARSHIPS:

Fellowships, scholarships, assistantships are usually available for postgraduate students wishing to study in Malaysia, depending either on availability within the institution and your academic qualifications. Additionally, a number of scholarships are available from other institutions and organisations, such as the Malaysian government.





MASTERS PROGRAMMES BY COURSEWORK MODE

POSTGRADUATE PROSPECTUS 2022-2026
UNIVERSITI PERTAHANAN NASIONAL MALAYSIA

NDUM MASTERS PROGRAMMES BY COURSEWORK MODE

- 📖 Master of Business Administration (Supply Chain and Logistics)
- 📖 Master in Business Management (Defence and Security)
- 📖 Master in Mechanical Engineering
- 📖 Master of Science in Engineering (Aeronautics)
- 📖 Master in Maritime Technology
- 📖 Master of Science in Cyber Security and Management
- 📖 Master in Strategy and Defence Studies
- 📖 Master of Public Health (Defence and Security)



GENERAL ADMISSION REQUIREMENT

Applicants for Master's Degree Programme by Coursework must fulfill the following requirements:

- i. A bachelor's degree in the field or related field or equivalent with a minimum CGPA of 2.50 or equivalent, from UPNM or any recognised university by the Senate; or
- ii. A bachelor's degree in the field or related field or equivalent with a minimum CGPA of 2.00 and not meeting a CGPA of 2.50 can be accepted subject to rigorous internal assessment; or
- iii. Candidate without a qualification in the related field or working experience in the relevant field must undergo appropriate prerequisite courses determined by the University and meet the minimum CGPA based on Clause (i) and/or Clause (ii) of the above. or
- iv. Other qualifications recognised by the Senate that are obtained through Accreditation of Prior Experiential Learning (APEL) - Level 7 (APEL-7).

LANGUAGE REQUIREMENT

English language proficiency requirement (compulsory) for foreign applicants is outlined in the following table:

Types of Test	Minimum Scores		
	Computing	Engineering/Sciences/Technology	Social Sciences
TOEFL	500	500	500
IELTS	Level 6.0	Level 5.0	Level 6.0
MUET	Band 4	Band 3	Band 4

An exception may be given to applicants of origin or nationality from countries such as the United States (US), United Kingdom (UK), Ireland, Australia, New Zealand, etc. where English is their native/official language. Applicants from other countries (etc.) will not usually need to provide additional evidence of English language ability if they supply sufficient proof from the institution that the degree was taught and examined in English.

The English language requirement is not applicable for international applicant with an accredited bachelor and master's degree obtained from Malaysian based academic institutions.




An international applicant for a postgraduate degree programme who has undergone his/her bachelor or master's degree programme at the University where English is the official medium of teaching /instruction, may be exempted from this requirement. Application for the exemption must be accompanied by an official certification from the degree awarding university's authority.



MASTER OF BUSINESS ADMINISTRATION (SUPPLY CHAIN AND LOGISTICS)

MBA (Supply Chain & Logistics) offered by NDUM has been carefully structured to provide opportunities specifically in business, management, marketing, defence and security where supply chain and logistics is essential. This programme is also designed to build upon student's previous experiences, providing a comprehensive approach to analyse and evaluate preceding transition of goods and services from suppliers and customers.

ENTRY REQUIREMENT

-  A bachelor's degree with a minimum CGPA of 2.5 in any field from any institution of higher learning recognised by the Government of Malaysia. Candidates with a CGPA lower than 2.5 must have at least 5 years of professional experience; or
-  Diploma in any field from any institution of higher learning recognised by the Government of Malaysia with 10 years of professional experience. Candidates will have to sit for Accreditation of Prior Experiential Learning (APEL) test conducted by Malaysian Qualification Agency (MQA); or
-  Other qualifications equivalent to bachelor's degree and experience in a related field (business, management, logistics, supply chain, economics or commerce) recognised by the NDUM senate.

DURATIONS





	Min	Max
Full Time	1 year	3 years
Part Time	2 years	6 years

FEE

	Malaysian	International
Full Time	RM21,550.00	RM23,950.00
Part Time	RM23,250.00	RM25,650.00

Fee is subjected to change from time to time as suggested by the senate of university

WHO SHOULD ATTEND?

-  Professionals working in the area of supply chain, operation, logistics, marketing, business and management. Earning the MBA will provide opportunities for career advancement.
-  Future managers and other leadership roles that interact with supply chain and logistics dimensions, and leaders managing cross-functional team may also consider this programme useful.
-  Professionals seeking the credentials to enter the field or those seeking a career change will find multiple career options in a variety of industries with this MBA in supply chain and logistics.
-  Fresh Graduates who plan to embark on a career in supply chain and logistics.

STRUCTURE

The candidate must complete a total of 45 credits. The minimum 45 credits taught courses consist of core, specialisation, elective and research modules. The programme delivery method consists of classroom and lecture; individual and group assignment; case studies, presentation and Post Module Assignment (PMA).

COMPONENTS	MODULES	CREDIT
Core	Strategic Management	3
	Managerial Accounting	3
	Managerial Economics	3
	Marketing Management	3
	Research Methods	3
Specialised	Supply Chain and Logistics Management	3
	Inventory and Warehouse Management	3
	Procurement Management	3
	Supply Chain Strategy	3
	Integrated Logistics Support	3
	Freight Transportation	3
Elective (2 modules only)	Organisational Behavior	3
	Human Resource Management	3
	Business Law and Ethics	3
	Entrepreneurship	3
	Transport Management	3
Research	Project paper	6
Total Credit Hours		45

MASTER IN BUSINESS MANAGEMENT (DEFENCE & SECURITY)

Business Management in this programme refers to the improvement of business processes by using management methods and tools. Business management is about managing and maintaining, developing material either tangible or intangible asset in the organisation. Furthermore, we as a National Defence University who looks into defence and security niche, is the first higher learning institution in Malaysia offers this program and to share how to lead and manage the vital system through business management re-engineering process.

ENTRY REQUIREMENT

- 📄 A bachelor's degree with a minimum CGPA of 2.5 in any field from any institution of higher learning recognised by the Government of Malaysia. Candidates with a CGPA lower than 2.5 must have at least 5 years of professional experience; or
- 📄 Diploma in any field from any institution of higher learning recognised by the Government of Malaysia with 10 years of professional experience. Candidates will have to sit for Accreditation of Prior Experiential Learning (APEL) test conducted by Malaysian Qualification Agency (MQA); or
- 📄 Other qualifications equivalent to bachelor's degree and experience in a related field (business, management, logistics, supply chain, economics or commerce) recognised by the NDUM senate.



DURATIONS

	Min	Max
Full Time	1 year	3 years
Part Time	2 years	6 years

FEE

	Malaysian	International
Full Time	RM17,950.00	RM23,950.00
Part Time	RM19,650.00	RM25,650.00

Fee is subjected to change from time to time as suggested by the senate of university

STRUCTURE

Candidates must complete a minimum of 42 credits. The minimum 42 credits taught courses consist of several subject modules, including core and elective courses. The programme delivery method consists of classroom and lecture; individual assignment and teamwork project paper; case presentation and final examination.

COMPONENTS	MODULES	CREDIT
Core	Human Resource management	3
	Managerial Accounting	3
	Business Economics	3
	Strategic Management	3
	Research Methods	3
Specialised	Operation Management	3
	Capability Management and Defence	3
	Quality, Reliability and Maintability	3
	Defence Technology	3
	Project Planning and Management Control	3
	Leading Change	3
Elective (2 modules only)	Managing Innovation	3
	Marketing Management	3
	Lean Principles and Applications	3
	Entrepreneurship	6
	Transport Management	3
Research	Project paper	6
Total Credit Hours		42



Open book with text and diagrams.



MASTER OF SCIENCE IN CYBER SECURITY AND MANAGEMENT (MCSM)

PROGRAM OVERVIEW

Threats to our cyber security are real and Malaysia requires professionals with knowledge and skill to understand and mitigate threats systematically. Thus, effective management and governance, as well as technical skill, are essential in ensuring cyber security risks and threats are well managed. Through this combined approach, Malaysia can maintain and protect its critical services and information infrastructure from cyber security threats emerge over time. Therefore, the need to build expertise in cyber security skills become very significant. Our program has some specialities as compared to others because of the following:

1. To produce graduates who will be able to cope, adapt and make appropriate right decisions in dynamic cyber security environment through applications of integrated knowledge, disciplines and theories.
2. To inculcate positive values, attitudes and provide operational and strategic cyber security skills so that the graduates can work in any organizations and serve Nation.
3. To equip graduates with an integrated knowledge and demonstrate the ability to perform as IT professionals and will be prepared for continued learning throughout their career.
4. To produce graduates with capability of providing cyber security services in the field of computer security to society as well as national computing needs.

ENTRY REQUIREMENT

- i. A bachelor's degree in Computing or in the field or related fields or equivalent with a minimum CGPA of 2.75 or equivalent qualification from NDUM or any recognised university by the Senate; or
- ii. A bachelor's degree in Computing or in the field or related fields or equivalent with a minimum CGPA of 2.50 or equivalent from NDUM or any recognised university by the Senate not meeting a CGPA of 2.75 can be accepted subject to rigorous internal assessment; or
- iii. A bachelor's degree in Computing or in the field or related fields or equivalent with a CGPA less than 2.50 or equivalent from NDUM or any recognised university by the Senate can be accepted subject to a minimum of five (5) years working experience in any relevant field and rigorous internal assessment; or
- iv. Candidates without a qualification in the related fields or relevant working experience must undergo appropriate prerequisite courses determined by the Senate and meet the minimum CGPA based on Clause (i) and/or Clause (ii) and/or Clause (iii) of the above.
- v. Other qualifications recognised by the Senate that are obtained through Accreditation of Prior Experiential Learning (APEL A Certificate APEL T-7).

WHO SHOULD ATTEND?

Candidates with background in computing or IT, experienced and specialised in cyber security, are most welcome. Candidates that have a particular interest in cyber security and good level of technical competence, are also considered:

- Military officer, Police officer, Immigration officer, Security agency officer, Risk officer, cyber investigation officer, Protective officer, Educator.

DURATIONS

	Min	Max
Full Time	1 year	4 years
Part Time	2 years	6 years

FEE

	Malaysian	International
Full Time	RM18,185.00	RM24,072.00
Part Time	Refer to CGS	

Fee is subjected to change from time to time as suggested by the senate of university

STRUCTURE

The candidate must successfully complete 41 credits of courses comprising of core courses, elective courses and project dissertation that will be delivered in various mode including: lab work and lecture, individual and group assignments, case studies and presentation.

COMPONENTS	MODULES	CREDIT
Core	Information Risk Management and Governance	3
	Cryptosystems and Data Protection	3
	Industrial Espionage and Counterfeiting	3
	Leading Change	3
	Digital Forensics, Evidence and Intelligence	3
	Security Architecture and Network Defence	3
	Research Methodology	2
Elective (4 modules only)	Big Data Analytics	3
	Ethical Hacking	3
	Introduction to Cyber Security	3
	Introduction to Information and Electronic Warfare	3
	Project Planning Management and Control	3
	Global E-Business	3
	Financial Analysis and Decision Making	3
	Business Strategy and Strategic Management	3
Research	Project Dissertation 1	3
	Project Dissertation 2	6
Total Credit Hours		41



MASTER OF PUBLIC HEALTH (DEFENCE AND SECURITY)

PROGRAM OVERVIEW

The post graduate programme is aimed at producing competent, versatile and knowledgeable doctors and health professionals who would be able to function as advisors, practitioners in Defence Health. Graduates would be competent in the field of medicine related to various medical and healthcare operations in austere settings as well as in humanitarian and disaster relief operations. The uniqueness of the programme is the combination of the various aspects of healthcare that are relevant to industry and defence health services All graduates from the Master of Public Health (Defence Health) programmes are expected to provide the best of healthcare at any time, readily deployable and able to function effectively in any place and be able to resolve problems that arise in critical and conflict situations.

ENTRY REQUIREMENT

To ensure the quality and integrity of programme, applicants for the Master of Public Health (Defence and Security) must fulfil the following entry requirements:

MALAYSIAN APPLICANTS:

- i. Medical profession: Medical Degree from UPNM or equivalent medical qualification approved by the Senate; one year of post-full registration work experience; and posses a valid Annual Practicing Certificate and registered with Malaysian Medical Centre (MMC).
- ii. Health related professions: Bachelor degree in a health-related field with CGPA of 3.0 or a professional qualification approved by the senate; one year of relevant work experience; registered with relevant healthcare-related council/boards and posses the practice certificate/credential/qualifications approved by the senate.

INTERNATIONAL APPLICANTS:

- i. Medical profession: Medical Degree of equivalent medical qualification from any institution recognizes by the MMC; one year of post-full registration work experience; qualified for registration under Medical Act of Malaysia.
- ii. Health related professions: Bachelor degree in a health-related field with CGPA of 3.0 or a professional qualification approved by the senate; one year of relevant work experience; registered with relevant healthcare-related council/boards and possess the practice certificate/credential/qualifications approved by the senate.

Shortlisted candidates will be notified through email and letter from the University. The candidates should also meet other requirements deemed necessary by the University before an offer is made for the programme.

WHO SHOULD ATTEND?

Doctors, dentist, pharmacist and health professionals who are keen to learn more about health issues and research techniques related to disease causation and prevention.

DURATIONS

	Min	Max
Full Time	1 year	3 years
Part Time	2 years	6 years

FEE

	Malaysian	International
Full Time	RM18,550.00	RM23,650.00

Fee is subjected to change from time to time as suggested by the senate of university

STRUCTURE

The candidate must complete a total of 43 credits. The 43 credits taught courses consist of Core, Elective and Research modules. The programme delivery method consists of lectures and tutorial; assignments, practical and presentation; case scenarios and case auditing; and field.

COMPONENTS	MODULES	CREDIT
Core	Health Promotion	2
	Research Methodology	3
	Biostatistic	2
	Epidemiology in Public Health Research	3
	Disaster Medicine I: Prevention and Risk Management	2
	Healthcare Management	3
	Defence Medical Logistics	2
	Occupational Medicine 1	3
	Environmental Health	2
	Occupational Medicine 2 – Defence and Security Occupations	2
	Disaster Medicine 2: Healthcare During Emergencies, Recovery and Rehabilitation	2
	Defence Security Health Services Management	2
Elective	Healthcare Management of Communities, Families and the Elderly	3
Research	Research Project 1	4
	Research Project 2	8
Total Credit Hours		43

MASTER IN MECHANICAL ENGINEERING

Master in Engineering (Mechanical) offer by Faculty of Engineering is suitable for fresh graduates, practicing engineers and academicians with primary degrees in Mechanical Engineering (or equivalent) who inspire to extend in depth and breadth the knowledge and skills gain from their engineering graduate studies related on defence on security. These areas of specialization are in line with the current demands of local and global industry's pursuit.

FACILITY OF ENGINEERING (MECHANICAL)

- Mechanics Dynamic Laboratory
- Computer Numerical Control Laboratory
- non Destructive Test Laboratory
- Energy Research Room Laboratory
- Mechanical of Solid Laboratory
- Mechanical Metallurgy Laboratory
- Physical Metallurgy Laboratory
- Applied & Basics Thermodynamics Laboratory
- CAE Laboratory
- Control Laboratory
- Fluid Laboratory
- General and Training Workshop Laboratory
- Instrumentation Laboratory
- Mechanics Statics Laboratory
- Lecture Theatre

WHY CHOOSE US ?

We are the first higher learning institution that offer Master in Mechanical Engineering program in Malaysia with defence and security element.

Prospective students will get first hand exposure from lectures with military experience.

We have more than 20 years experience in conducting academic program, with more than 30 qualified lectures.

The programme aims at providing opportunities to various group of potential candidates such as;

- Fresh Graduates
- Practicing Engineers
- Academicians

DURATIONS

	Min	Max
Full Time	1 year	3 years
Part Time	2 years	6 years

FEE

	Malaysian	International
Full Time	RM12,050.00	RM19,550.00
Part Time	Refer to CGS	

Fee is subjected to change from time to time as suggested by the senate of university

STRUCTURE

The structure of the Master in Mechanical Engineering programme consist of 10 core courses with total of 40 credit hours, 2 elective courses with total of 6 credit hours, and Research Methodology Course 2 credit hours. Every students is required to complete Master's Dissertation in their final trimester. Each student is required to nominate a supervisor who can assist and advise him/her on the case writing or completion of dissertation.

COMPONENTS	MODULES	CREDIT
Core	Revolution in Military Affair	3
	Sustainability in Defence	3
	Research Methods	2
	Project Proposal	3
	Logistic Engineering	3
	Applied Engineering Mathematic	3
	Computational Methods	3
	Instrumentation, Measurement, & Control System	3
	Structural Integrity	3
Elective	Advanced Manufacturing Process	3
	Advanced Materials for Defence	3
	Industrial Turbomachinery	3
	Compressible Fluid Flow	3
	Applied Heat Transfer	3
	Automotive Safety	3
	Vehicle Fleet Safety Management	3
Research	Project Paper (Masters' Dissertation)	8
Total Credit Hours		40



MASTER OF SCIENCE IN ENGINEERING (AERONAUTICS)

This program is designed to enhance the knowledge for students with degree in engineering or science who have interest in aeronautics related field. This program date with appropriate knowledge at senior engineer/managerial level specifically in aircraft structure and aerodynamics. This program is designed with collaboration with one of Europe's leading higher education provider in the field of aeronautics (Institute Supérieur de l'aéronautics et de l'espace, France).

CAREER PROSPECTS

Wide career opportunities in defence and commercial aeronautics related industries such as Aircraft Designer, Aeronautics Engineer, managerial position in aeronautics related field, academician and researcher.

DURATIONS

	Min	Max
Full Time	1 year	3 years
Part Time	2 years	6 years

FEE

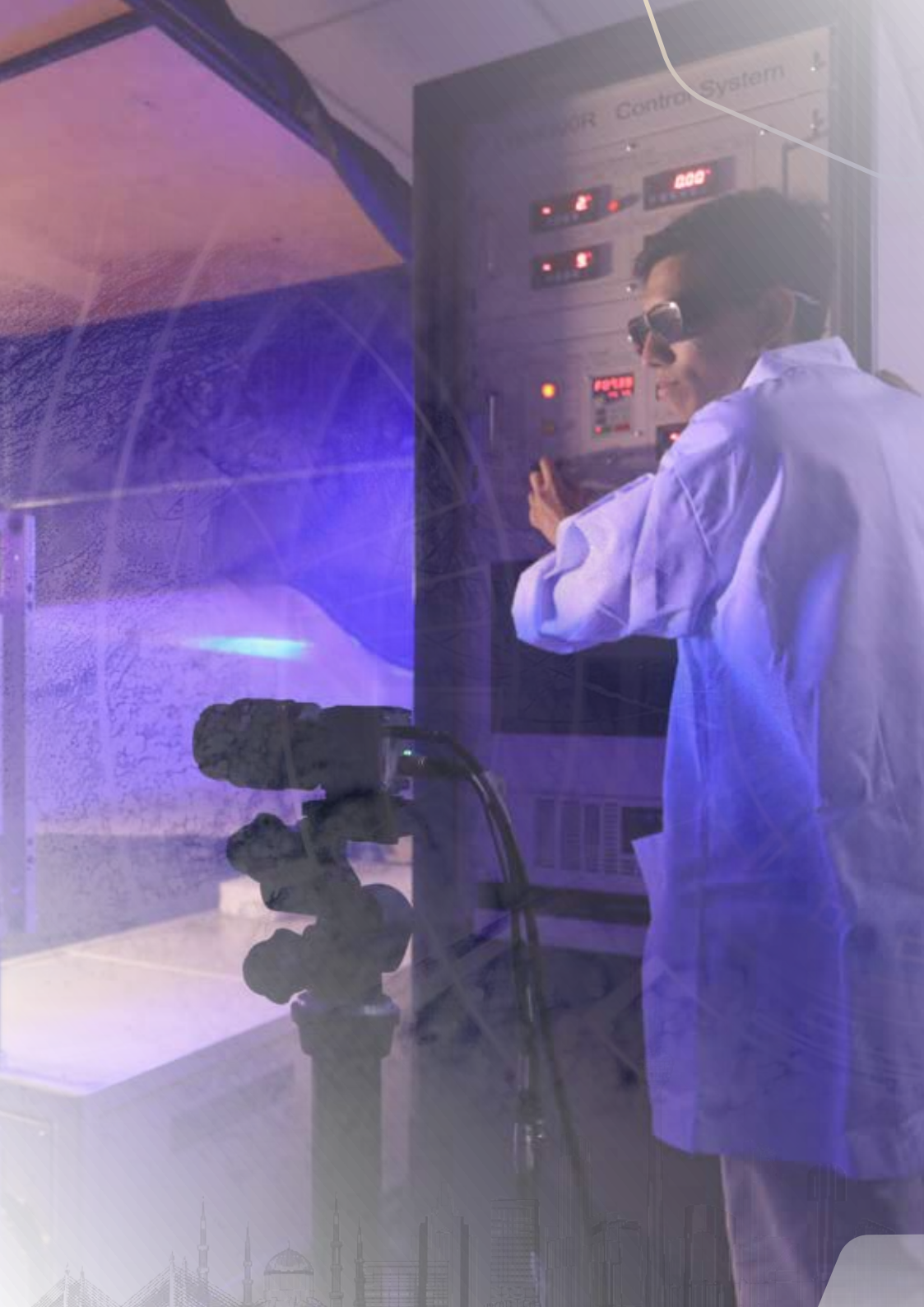
	Malaysian	International
Full Time	RM12,850.00	RM21,300.00
Part Time	Refer to CGS	

Fee is subjected to change from time to time as suggested by the senate of university

STRUCTURE

Candidates must complete a total of 44 credits.

COMPONENTS	MODULES	CREDIT
Core	Research Methodology	2
	Revolution Military Affair	3
Elective	Advanced Mathematics	3
	Aircraft Structure	4
	Aircraft Vibrations	4
	Advanced Flight Dynamics and Control	3
	Aircraft Aerodynamics	4
	Aircraft Guidance and Navigation	2
	Flight Characteristics	2
	Aircraft Propulsion	3
	Materials for Airframes	3
	Aircraft Design Project	3
	Research	Research Project Proposal
Research project 1		4
Research project 2		2
Total Credit Hours		44



MASTER IN STRATEGY AND DEFENCE STUDIES (MSDS)

Masters in Strategy and Defence Studies (MSDS) offered by NDUM has been carefully structured to provide opportunities to those specifically interested in expanding knowledge and career advancement in the field of strategic and defence studies.

ENTRY REQUIREMENT

- A Bachelor's degree with a minimum CGPA of 2.75 in any field from any institution of higher learning recognised by the Government of Malaysia with at least 3 years of professional experience; or
- Advanced Diploma with a minimum CGPA of 2.75 in any field from any institution of higher learning recognised by the Government of Malaysia with at least 3 years of professional experience and endorsed by the NDUM senate; or
- NDUM Diploma and other institution of higher learning in related field with a minimum CGPA of 2.75 with at least 5 years of professional experience and endorsed by the NDUM senate through Accreditation of Prior Experiential Learning (APEL); or
- Diploma and other qualification equivalent from institution of higher learning related to defence and strategic studies recognised from overseas and received approval from the particular country and subjected to the approval of NDUM senate through APEL; or

- Other diploma qualification equivalent from institution of higher learning approved by NDUM senate from time to time through APEL.

WHO SHOULD ATTEND?

- Professional working in the area of strategic and defence studies. Earning MSDS will provide opportunities for career development.
- Future leaders in the field of strategic and defence studies may also consider this program useful.
- Professional seeking the credentials to enter the field or those seeking a career change will find multiple career options in a variety of industries with this MSDS program.
- Fresh Graduates who plan to embark on a career in strategic defence studies.

DURATIONS

	Min	Max
Full Time	1 year	4 years
Part Time	2 years	6 years

FEE

	Malaysian	International
Full Time	RM18,350.00	RM23,050.00
Part Time	RM20,000.00	RM24,750.00

Fee is subjected to change from time to time as suggested by the senate of university

STRUCTURE

Candidates must complete a total of 40 credits.

COMPONENTS	MODULES	CREDIT
Core	Strategic Studies and Security Affairs in Asian Region	4
	International Relations	3
	War Studies	3
	Malaysian Security and Development Studies	4
	Joint Operation Planning Process	3
	Military Doctrine, Operations and Strategic	3
	Military Practices and War	3
	Defence Management	3
Research	Compa 1	2
	Compa 2	2
	Research Method	3
	Project Paper	7
Total Credit Hours		40



MASTER IN MARITIME TECHNOLOGY (MMT)

MMT offered by NDUM has been carefully structured based on the collaboration with University Ecole Centrale De Nantes, France under the mutual agreement of Offset Program (France & Malaysia). This programme provides opportunities specifically for maritime agencies and industries candidates. This programme is designed to expose and develop student's maritime experience on Naval Architecture, ship maintenance and ship operation. Besides that, it aims to achieve highly professionalism in term of leadership and decision making as Captain of a ship or Head of Department in ship operation as well as ship construction and maintenance. Part of the programme is also devoted to the practical used of ship simulator, ship design software and Computational Fluid Dynamic (CFD) as well as be able to relate the knowledges gain towards the enhancement of Maritime Defence and Technology.

ENTRY REQUIREMENT

- A bachelor's degree with minimum CGPA of 2.5 in Bachelor Degree in Maritime Technology Mechanical Engineering, Mechanical (Marine Technology), Electrical & Electronic, Naval Architecture and any fields that are equivalent or being recognised by the NDUM Senate; or
- To whom has CGPA less than 2.5 should undergo the NDUM internal test for Validation: or Diploma in Science, Technology and Engineering fields or certificates which obtain from Accreditation of Prior Experiential Learning (APEL);



WHO SHOULD ATTEND?

- Professional officers working in the maritime technology field in term of ship operation, ship maintenance and ship construction. For instances, Royal Malaysian Navy (RMN) officers, Malaysian Maritime Enforcement Agency (APMM), Ship's captain, Head of Department of shipping companies, shipyards (Boustead/MSE), Oil and gas and Marine Police. Earning the STM will provide opportunities for graduate career employment.
- Professionals seeking the credentials to enter the field or those seeking career change will find multiple career options in maritime agencies.
- Fresh Graduates who plans to embark on a career in maritime agencies and related Industries.

DURATIONS

	Min	Max
Full Time	1 year 3 months	2 years, 6 months
Part Time	2 years	6 years

FEE

	Malaysian	International
Full Time 3 Semester	RM15,050.00	RM23,630.00
Part Time 6 Semester	Refer to CGS	

Fee is subjected to change from time to time as suggested by the senate of university

STRUCTURE

Candidates must complete a total of 40 credits.

COMPONENTS	MODULES	CREDIT
Core	Research Methodology	2
	Ship Technology	3
	Naval Architecture	3
	Mathematics for Marine Application	3
	Marine Corrosion/ Inspection and Survey	3
	Ship Hull and Structure	3
	Marine Simulation and Modeling	3
	Ship Propulsion and Performance	3
Elective	Marine Dynamic Application	3
	Maritime Safety and Security	3
	Ship Hydrodynamics	3
	Power Supply Management	3
	Naval Combat System	3
	Weapon Integration Systems	3
	Deck Operation System	3
	Marine Vehicle Evolution and Design	3
Ship Production	3	
Research	Master's Project	8
Total Credit Hours		40



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UNIVERSITY OF PANGLOSS

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NDUM ESSENTIAL
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MASTERS AND PHD PROGRAMMES BY RESEARCH MODE

POSTGRADUATE PROSPECTUS 2022-2026
UNIVERSITI PERTAHANAN NASIONAL MALAYSIA



MASTERS PROGRAMMES (BY RESEARCH MODE):

ADMISSION REQUIREMENT

Applicants for graduate programmes by research at Universiti Pertahanan Nasional Malaysia (UPNM) must fulfil the following requirements:

1. MASTER PROGRAMME (RESEARCH)

- i. A bachelor's degree in the field or related fields to the programme with a minimum CGPA of 2.75, as accepted by the UPNM Senate; or
- ii. A bachelor's degree in the field or related fields or equivalent to the programme with a minimum CGPA of 2.50 and not meeting a CGPA of 2.75 can be accepted subject to rigorous internal assessment; or
- iii. A bachelor's degree in the field or related fields or equivalent to the programme with a minimum CGPA of 2.00 and not meeting CGPA of 2.50, can be accepted subject to a minimum of 5 years working experience in relevant field and rigorous internal assessment; or
- iv. Applicants without a qualification in the related fields or relevant working experience must undergo appropriate prerequisite courses determined by the Senate and meet the minimum CGPA based on Clause 1 (i), Clause 1 (ii) and Clause (iii) of the above; or
- v. Qualification obtained through Accreditation of Prior Experiential Learning (APEL A Certificate (APEL T-7) and with working experience in the field or related to the programme.

2. MASTER PROGRAMME IN COMPUTER SCIENCE

- i. A bachelor's degree in computing or in science and technology or related to computing with a minimum CGPA of 3.00 or equivalent qualification from UPNM or any recognised university by the Senate; or
- ii. A bachelor's degree in computing or in science and technology or related to computing or equivalent qualification with a minimum CGPA of 2.75 and not meeting a CGPA of 3.00 can be accepted subject to rigorous internal assessment; or
- iii. A bachelor's degree in computing or in science and technology or related to computing or equivalent qualification not meeting a CGPA of 2.75 can be accepted subject to a minimum of five (5) years working experience in any relevant field; or
- iv. Applicants without a qualification in the related fields or relevant working experience must undergo appropriate prerequisite courses determined by the Senate and meet the minimum CGPA based on Clause 2 (i), Clause 2 (ii) and Clause 2 (iii) of the above; or
- v. Qualification obtained through Accreditation of Prior Experiential Learning (APEL A Certificate (APEL T-7) and with working experience in the field or related to the programme.

PHD PROGRAMMES (BY RESEARCH MODE):

ADMISSION REQUIREMENT

1. Doctoral Programme

- i. A master's degree in the field or related fields to the programme from UPNM or any recognised university by the Senate; or
- ii. Other qualifications that are recognised by the Senate and/or Malaysian Qualification Agency (MQA) as equivalent to a master's degree.
- iii. Applicants without a related qualification in the field/s or working experience in the relevant

fields must undergo appropriate prerequisite courses determined by the Senate.

* For Doctoral Programme in Computer Science

A master's degree or equivalent and candidates must have completed at least one (1) of their earlier degrees (Master or Bachelor) in Computing or related to computing.

2. For direct entry from a bachelor's degree to a Doctoral degree, applicants must fulfil all the following requirements:

- i. A bachelor's degree in the field or related fields with first-class grading or its equivalent from an academic or Technical and Vocational Education and Training (TVET) programme from UPNM or any recognised university by the Senate; or
- ii. A bachelor's degree in the field or related fields or equivalent qualification with a minimum CGPA of 3.67 from an academic or Technical and Vocational Education and Training (TVET) programme from UPNM or any recognised university by the Senate; or
- iii. Rigorous internal assessment from the FCA; and
- iv. Approval from Senate.

3. However, student who gain direct entry from a bachelor's degree to a Doctoral degree (as per Clause 2 as the above) shall not be awarded with a Master degree if the student failed in the Doctoral programme thesis examination.

4. Academic qualification for Clause 1 and 2 as the above must be from an accredited programme by relevant accreditation or regulatory bodies recognised by the Malaysian Government and/or respective countries (e.g.,MQA).

LANGUAGE REQUIREMENTS FOR MASTERS AND PHD PROGRAMMES



English language proficiency requirement (compulsory) for foreign applicants is illustrated in the following table:

TYPES OF TEST	MINIMUM SCORES		
	COMPUTING	ENGINEERING/SCIENCES/ TECHNOLOGY	SOCIAL SCIENCES
TOEFL	500	500	500
IELTS	Level 6.0	Level 5.0	Level 6.0
MUET	Band 4	Band 3	Band 4

An exception may be given to applicants of origin or nationality from countries such as the United States (US), United Kingdom (UK), Ireland, Australia, New Zealand, etc. where English is their native/official language. Applicants from other countries (etc.) will not usually need to provide additional evidence of English language ability if they supply sufficient proof from the institution that the degree was taught and examined in English.

The English language requirement is not applicable for international applicant with an accredited bachelor and master's degree obtained from Malaysian based academic institutions.

An international applicant for a postgraduate degree programme who has undergone his/her bachelor or master's degree programme at the University where English is the official medium of teaching /instruction, may be exempted from this requirement. Application for the exemption must be accompanied by an official certification from the degree awarding university's authority.

MASTERS AND PHD PROGRAMMES FIELD OF RESEARCH

FACULTY OF DEFENCE SCIENCE AND TECHNOLOGY (FSTP)

NEC REFERENCE	FIELD OF RESEARCH
Computer science	<ul style="list-style-type: none">• Computer Science
Manufacturing and processing	<ul style="list-style-type: none">• Food processing• Applied science• Maritime technology
Security services	<ul style="list-style-type: none">• Security services• Military and defence
Biology and biochemistry	<ul style="list-style-type: none">• Biology and biochemistry
Physical science	<ul style="list-style-type: none">• Physics• Chemistry• Earth science
Statistics	<ul style="list-style-type: none">• Statistics
Mathematics	<ul style="list-style-type: none">• Mathematics

FACULTY OF ENGINEERING (FKJ)

NEC REFERENCE	FIELD OF RESEARCH
Engineering and engineering trades	<ul style="list-style-type: none">• Antenna Engineering• High Voltage Engineering• IC Design• Material Engineering• Sensor, Processor & Controller• Artificial Intelligent & Network Engineering• Optics Engineering

NEC REFERENCE

FIELD OF RESEARCH

- Power Transmission
- Radar & Satellite Navigation Engineering
- Renewable Energy Engineering
- Signal Processing
- Software Development
- Wave and Propagation
- Electrical and Electronic Engineering Technology

- Advanced & Smart Materials
- Combustion & Fuel
- FEA & CFD
- Aerospace & Aeronautic Engineering
- HVAC & Thermal Systems
- Engineering & Defence technology
- Ergonomics & Human factors engineering
- Turbomachinery & Turbocharger
- Impact & Structural mechanics
- Materials engineering & Nanotechnology
- Additive & Advanced Manufacturing
- Mechatronics
- Sustainable and Renewable Energy Engineering
- Engineering dynamics and acoustics
- Structural integrity & durability
- Automotive Engineering
- Weapon System and Platform
- Instrumentation and Control Engineering

- Engineering, Engineering Technology & Defence structures / materials
- Geotechnical engineering
- Water engineering, waste water and environmental engineering
- Highway and transportation
- Project Management
- Geospatial and GIS
- Disaster, safety and emergency management
- CBRNe
- Green Technology & Sustainable Development

FACULTY OF DEFENCE STUDIES AND MANAGEMENT (FPPP)

NEC REFERENCE

FIELD OF RESEARCH

Social and behavioural science

- Psychology Counselling
- Criminology
- Demography/ Population Study
- Ethnology
 - Ethnicity
 - Ethnography
- Sociology
- Women Studies
- Civics
 - Military & Society
- Human Rights
- International Relation
 - Strategic & International Relations
 - East Asian Regional Security
 - International Humanitarian Law
 - International Relations
 - International Security
- Peace & Conflict Studies
 - War & Conflict
- Political History
- Political Science
 - Foreign & Defence Security
 - Malaysian Defence & Security Policy
 - Strategic Thought
- Politics
- Applied Economics
- Defence Economy
- Financial Economics
- International Economics
- Human Resources Economics

Business and administration

- Consumer Services
- Retailing
- Stock-Keeping
- Ware-Housing

NEC REFERENCE**FIELD OF RESEARCH**

- Wholesaling
- Marketing
- Advertising
- Market Research
- Sales & Marketing
- Banking & Finance
- Business Finance
- Finance Theory
- Financial Management
- Investment Analysis
- Investment & Securities
- Accounting
- Auditing
- Book Keeping
- Tax Accounting
- Administration
- Logistic Management
- Management Skills
- Industrial Relations
- Quality Assurance
- Quality Management
- Recruitment
- Training Management
- Resources Management
 - Integrating Military Storage Resources
 - Resources & Inventory Management
 - Impact of Military Culture & Productivity
 - Support Resources Deployment
 - Family Development & Resources
 - Management
 - Entrepreneur Affair
- Business Management
- Human Resource Management
- Organisational Theory & Behaviour
- Purchasing, Procurement & Contracts
- Personnel Administration
- Personnel Management
- Business Administration
- Employment Management
- Performance appraisal
- Supply Chain Management



LANGUAGE CENTRE (PB)

NEC REFERENCE

Teacher training and education sciences

FIELD OF RESEARCH

- Education Technology
- Practical Pedagogical Courses
- Teacher Education
- Teacher Training
- Education Sciences
- Curriculum Development (Theory)
- Educational Assessment, Testing and Measurement
- Educational Evaluation and Research
- Pedagogical Sciences (Education)
- Class Teacher Training
- Elementary Teacher Training
- Secondary Teaching
- Teacher Training, Theoretical Subjects eg. English, Mathematics and History

DEFENCE FITNESS ACADEMY (AKP)

NEC REFERENCE

Personal services

FIELD OF RESEARCH

- Sport Coach Education
- Sport Coaching Performance
- Sport Coaching Technology
- Sport Exercise Physiology
- Sport Biomechanics
- Motor Learning and skill acquisition
- Physical Conditioning
- Sport Psychology
- Sport Coaching Management
- Sport Technology
- Sport Biomechanics
- Sport Nutrition and Performance
- Physical Training in Sport
- Motor Learning and skill acquisition
- Sport Management

DURATION OF STUDY

The duration of studies for postgraduate student is shown in the following table:

Programme	Mode of Study	Conventional Duration	Maximum Duration
Master	Full-time	2 years	4 years
	Part-time	3 years	6 years
PhD	Full-time	3 years	6 years
	Part-time	4 years	8 years

FEES FOR MASTERS AND PHD (BY RESEARCH MODE)

FACULTY OF ENGINEERING AND FACULTY OF DEFENCE SCIENCE AND TECHNOLOGY

	MALAYSIAN STUDENTS				INTERNATIONAL STUDENTS	
	MASTER		PHD		MASTER	PHD
	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time
ONE TIME FEES						
Registration	150.00	150.00	150.00	150.00	150.00	150.00
Alumni	100.00	100.00	100.00	100.00	100.00	100.00
Convocation	250.00	250.00	250.00	250.00	250.00	250.00
Examination	500.00	500.00	1,000.00	1,000.00	500.00	1,000.00
REPEATING FEES (EVERY SEMESTER)						
Services	450.00	450.00	450.00	450.00	450.00	450.00
Healthcare	50.00	50.00	50.00	50.00	50.00	50.00
Insurance	50.00	50.00	50.00	50.00	50.00	50.00
PROGRAMME FEE (EVERY SEMESTER)						
Programme Fee	900.00	1,400.00	1,000.00	1,500.00	3,000.00	3,450.00
TOTAL PAYMENT FOR FIRST SEMESTER						
	1,600.00	2,100.00	1,700.00	2,200.00	3,700.00	4,150.00
PAYMENT FOR SUBSEQUENT SEMESTER						
	1,450.00	1,950.00	1,550.00	2,050.00	3,550.00	4,000.00

FACULTY OF DEFENCE STUDIES AND MANAGEMENT / LANGUAGE CENTRE

	MALAYSIAN STUDENTS				INTERNATIONAL STUDENTS	
	MASTER		PHD		MASTER	PHD
	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time
ONE TIME FEES						
Registration	150.00	150.00	150.00	150.00	150.00	150.00
Alumni	100.00	100.00	100.00	100.00	100.00	100.00
Convocation	250.00	250.00	250.00	250.00	250.00	250.00
Examination	500.00	500.00	1,000.00	1,000.00	500.00	1,000.00
REPEATING FEES (EVERY SEMESTER)						
Services	450.00	450.00	450.00	450.00	450.00	450.00
Healthcare	50.00	50.00	50.00	50.00	50.00	50.00
Insurance	50.00	50.00	50.00	50.00	50.00	50.00
PROGRAMME FEE (EVERY SEMESTER)						
Programme Fee	800.00	1,200.00	1,000.00	1,500.00	2,400.00	3,000.00
TOTAL PAYMENT FOR FIRST SEMESTER						
	1,500.00	1,900.00	1,700.00	2,200.00	3,100.00	3,700.00
PAYMENT FOR SUBSEQUENT SEMESTER						
	1,350.00	1,750.00	1,550.00	2,050.00	2,950.00	3,550.00

DEFENCE FITNESS ACADEMY

	MALAYSIAN STUDENTS				INTERNATIONAL STUDENTS	
	MASTER		PHD		MASTER	PHD
	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time
ONE TIME FEES						
Registration	150.00	150.00	150.00	150.00	150.00	150.00
Alumni	100.00	100.00	100.00	100.00	100.00	100.00
Convocation	250.00	250.00	250.00	250.00	250.00	250.00
Examination	500.00	500.00	1,000.00	1,000.00	500.00	1,000.00
REPEATING FEES (EVERY SEMESTER)						
Services	450.00	450.00	450.00	450.00	450.00	450.00
Healthcare	50.00	50.00	50.00	50.00	50.00	50.00
Insurance	50.00	50.00	50.00	50.00	50.00	50.00
PROGRAMME FEE (EVERY SEMESTER)						
Programme Fee	750.00	950.00	1,000.00	1,400.00	3,000.00	3,450.00
TOTAL PAYMENT FOR FIRST SEMESTER						
	1,450.00	1,650.00	1,700.00	2,100.00	3,700.00	4,150.00
PAYMENT FOR SUBSEQUENT SEMESTER						
	1,300.00	1,500.00	1,550.00	1,950.00	3,550.00	4,000.00

FACULTY OF MEDICINE AND DEFENCE HEALTH

	MALAYSIAN STUDENTS				INTERNATIONAL STUDENTS	
	MASTER		PHD		MASTER	PHD
	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time
ONE TIME FEES						
Registration	150.00	150.00	150.00	150.00	150.00	150.00
Alumni	100.00	100.00	100.00	100.00	100.00	100.00
Convocation	250.00	250.00	250.00	250.00	250.00	250.00
Examination	500.00	500.00	1,000.00	1,000.00	500.00	1,000.00
REPEATING FEES (EVERY SEMESTER)						
Services	450.00	450.00	450.00	450.00	450.00	450.00
Healthcare	50.00	50.00	50.00	50.00	50.00	50.00
Insurance	50.00	50.00	50.00	50.00	50.00	50.00
PROGRAMME FEE (EVERY SEMESTER)						
Programme Fee	3,450.00	3,950.00	3,650.00	4,250.00	7,200.00	8,010.00
TOTAL PAYMENT FOR FIRST SEMESTER						
	4,150.00	4,650.00	4,350.00	4,950.00	7,900.00	8,710.00
PAYMENT FOR SUBSEQUENT SEMESTER						
	4,000.00	4,500.00	4,200.00	4,800.00	7,750.00	8,560.00

FEES FOR GRADUATE RESEARCH ASSISTANT (GRA)

	MALAYSIAN STUDENTS				INTERNATIONAL STUDENTS	
	MASTER		PHD		MASTER	PHD
	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time
ONE TIME FEES						
Registration	150.00	150.00	150.00	150.00	150.00	150.00
Alumni	100.00	100.00	100.00	100.00	100.00	100.00
Convocation	250.00	250.00	250.00	250.00	250.00	250.00
Examination	500.00	500.00	1,000.00	1,000.00	500.00	1,000.00
REPEATING FEES (EVERY SEMESTER)						
Services	450.00	450.00	450.00	450.00	450.00	450.00
Healthcare	50.00	50.00	50.00	50.00	50.00	50.00
Insurance	50.00	50.00	50.00	50.00	50.00	50.00
PROGRAMME FEE (EVERY SEMESTER)						
Programme Fee	500.00	750.00	500.00	750.00	1,500.00	1,500.00
TOTAL PAYMENT FOR FIRST SEMESTER						
	1,200.00	1,450.00	1,200.00	1,450.00	2,200.00	2,200.00
PAYMENT FOR SUBSEQUENT SEMESTER						
	1,050.00	1,300.00	1,050.00	1,300.00	2,050.00	2,050.00



YOUR APPLICATION (HOW TO APPLY)

- ❏ All applications must be submitted to the Centre for Graduate Studies, UPM. Application Form (PPS-01) can be downloaded from our website at <http://cgs.upnm.edu.my>
- ❏ International student is also required fill Application Form (PPS-01A) which can also be downloaded from our website.



<http://cgs.upnm.edu.my>





NOTE



UPNM

National Defence University of Malaysia



National Defence University of Malaysia

POSTGRADUATE PROSPECTUS

2022 - 2026



UPNM
UNIVERSITI PERTAMUAN
PERDANA MALAYSIA



PUSAT PENGAJIAN SISWAZAH
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