



COURSEWORK PROGRAMME

MASTER OF SCIENCE IN ENGINEERING (AERONAUTICS)

Understanding technology for advance development



ABOUT US

Since inception in 2006, UPNM now has more than 15 years of experience in teaching, training, professional development, leadership, and research. It continues to advance as a leading university in Asia niche in the field of defense, military, and security.



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

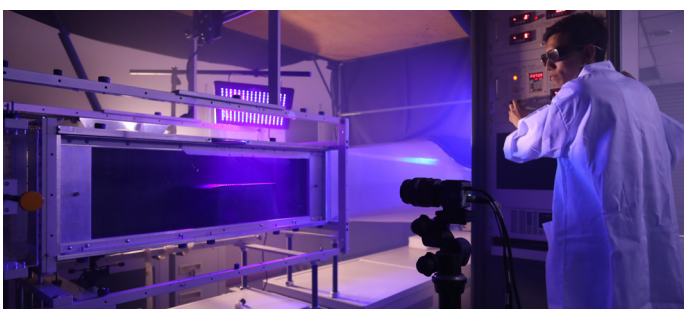
MASTER OF SCIENCE IN ENGINEERING (AERONAUTICS)

✓ Programme Overview

The program is designed to enhance the knowledge of students with degrees in engineering or science who have an depth interest in aeronautics-related fields.

This program offers a professional education that prepares the candidate with appropriate knowledge at the senior engineer/managerial level specifically in aircraft structure and aerodynamics.

The syllabus of this program has been designed in collaboration with Institut Superieur de l'aeronautics et de l'espace, France, which is one of Europe's leading higher education providers in the field of aeronautics. Courses offered comprise aircraft structures, advanced aerodynamics, propulsion and control & guidance. The candidate will have the opportunity to pursue their research project related to cutting-edge technology in aeronautics.



✓ 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.

✓ Who Should Attend?

Candidates currently in the aerospace industry as:

- pilot
- aviation management officer
- air traffic controller
- aviation educator and;

Candidate with an interest in aeronautics and technology with a good level of technical competence.



✓ Entry Requirement

Applicants for the Master's Degree Programme by Coursework must fulfil 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).

The English language requirement applies to foreign/international applicant where English is not their native/official language. This requirement does not apply to International applicants with an accredited bachelor's and master's degree obtained from Malaysian-based academic institutions.



✓ Application

All applications must be submitted to the Centre for Graduate Studies, National Defence University of Malaysia.

The application form can be downloaded from the NDUM website at <https://cgs.upnm.edu.my/index.php/en/>

✓ Structure of Study

The candidate must complete 44 credits of courses comprising core courses, elective courses and project dissertations that will be delivered in various modes including lab work and lectures, individual and group assignments, case studies and presentations.

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 Proect Proposal	3
	Research Project I	6
	Researc Project 2	6
Total Credit Hours		44

✓ Duration of Study

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

✓ Study Fee

	Malaysian	International
Full Time	RM 12,850.00	RM 21,300.00
Part Time	RM 14,450.00	RM 23,000.00

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

Notes:

