

# BACHELOR OF SCIENCE (HONS) IN FLIGHT OPERATIONS

JPT/BPP(N/1041/6/0011) 06/30, (MQA/PA18174)

## DESCRIPTION OF PROGRAMME

The Bachelor of Science in Flight Operations prepares students for diverse roles in the aviation industry by providing a comprehensive education in aerodynamics, aircraft system, navigation, meteorology, aviation safety, flight planning, air traffic management, airlines and airport operations, air crash investigations, aviation project management, aviation economics analysis, and many more. Through hands-on training with advanced simulators and practical tools, students gain essential technical and soft skills, emphasising safety, regulatory compliance, and global aviation standards.

Experienced faculty and strong industry connections offer valuable insights, wide choices and credible internships placement, and networking opportunities, enhancing employability in the aviation industry. This programme equips graduates with the expertise needed to excel in the dynamic and global aviation sector.

## PROGRAMME HIGHLIGHTS

- Current curriculum
- Interesting electives
- Industry relevant subjects
- Emphasis on practical skills
- A variety of internship partners
- Great affordability with exclusive scholarships

## INTAKE

January / June / September

## DURATION

3 Years



## CAREER PROSPECTS

- Flight Planner
- Air Traffic Controller
- Air Cargo & Logistics
- Piloting
- Load Master
- Flight Dispatcher
- Aviation Economics
- Flight Crew Training
- Aircraft Ground Handler
- Project Management Office
- Aviation Safety and Security
- Aircraft Maintenance Management
- Aviation Quality Management
- Auditor
- Aircraft Accident Investigator
- Forensics



# PROGRAMME MODULE

## Year 1

### Core Modules

- Technical Mathematics
- Aviation Physics
- Aerodynamics
- Human Factors
- Co-Curriculum
- Electrical Theory I
- Electrical Theory II
- Electronic Theory
- Theory of Flight and Flight Control
- Digital Techniques and Electronic Instrument Systems
- Penghayatan Etikan Dan Peradaban (Malaysians)  
/ Bahasa Melayu Komunikasi I (International Students)
- Aviation Legislation
- Instrument and Avionics Systems
- Aircraft Electrical Systems

## Year 2

### Core Modules

- Law of Business
- Principles of Management
- Foundation of Business
- Flight Simulator
- Aircraft Performance
- Airlines Management
- Meteorology
- Air Navigation
- Aircraft Single-Engine System
- Integrity and Anti-Corruption
- Airports Management
- Dangerous Goods & Cargo Handling
- Philosophy and Current Issues

## Year 3

### Core Modules

- Aviation Safety
- Crew Resource Management
- Aircraft Accident Investigations
- Final Year Project I
- Project Management in Aviation
- Graduate Preparatory Course
- Aviation Industrial Training
- Final Year Project II

### Electives related to core:

#### Elective I : Aviation Management

- Human Resource Management
- Business Ethics & Social Responsibility
- Air Transport Economics
- Air Traffic Systems
- Logistics Management

#### Elective II : Flight Management (Private Pilot Licence (PPL))

- Aviation Law
- Aircraft Operations Procedure
- Aircraft Technical and Type
- Visual Flight Rules Communications
- Flight Performance and Planning

### Additional Modules

- Malay Language (only for Malaysian students without a credit in SPM BM)
- Bahasa Kebangsaan A



## SUMMARY OF ENTRY REQUIREMENTS

DURATION	QUALIFICATION	COURSE ADMISSION CRITERIA
<b>Full time:</b> 3 years	STPM	Pass with at least Grade C (GP 2.00) in any two (2) subjects; or
	A-Level	Pass with at least Grade D in any two (2) subjects; or
	United Examination Certification (UEC)	Pass with at least Grade B in five (5) subjects and pass in Mathematics and English ; or
	STAM	Pass with at least Grade of Jayyid (good) and pass in Mathematics and English at the Sijil Pelajaran Malaysia (SPM) level; or
	Matriculation/Foundation	Pass at least CGPA 2.00; or
	Diploma (Level 4, MQF)/ Advanced Diploma (Level 5, MQF)	Pass at least CGPA of 2.00

## ENGLISH REQUIREMENTS

International students are required to achieve a minimum score of 5.0 (IELTS) / TOEFL 40 (iBT), 7.5 (Ess) / 47 (Pearson) / 3.5 (MUET) / 154 (Linguaskill OL) / 107 (ELS).

## HEALTH REQUIREMENTS

All offers are subject to the students being certified by a medical practitioner as fit to be accepted into the programme and not having any of the following medical / physical conditions:

• Colour Blindness • Hearing Impairment • Asthma

For a full breakdown of the entry requirements, please refer to our website at [www.nilai.edu.my](http://www.nilai.edu.my)

### CONNECT WITH US:

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### ENQUIRE NOW!

 **+6017 350 1188** (MALAYSIAN STUDENTS)

 **+6017 381 6688** (INTERNATIONAL STUDENTS)