



UniKL
UNIVERSITI
KUALA LUMPUR



FLY HIGH IN THE OPEN SKY

UNIVERSITI KUALA LUMPUR
MALAYSIAN INSTITUTE OF AVIATION TECHNOLOGY

www.unikl.edu.my

Universiti Kuala Lumpur Kampus Cawangan Malaysian Institute Of Aviation Technology

Universiti Kuala Lumpur Kampus Cawangan Malaysian Institute of Aviation Technology (UniKL-MIAT) is the nation's premier aviation training university established as part of MARA Vocational Training in collaboration with Northrop-Rice U.S.A being the technology provider at that time. On its ground, UniKL MIAT is equipped with world-class infrastructures, state-of-the-art facilities including live workshops and hangars. It boasts as one of the dynamic and comprehensive training institute, complying with international as well as local technical standards and industrial requirements. The campus can accommodate more than 2700 students at any one time which consists of local and international students from the Middle East, Thailand, Bangladesh, the Netherlands, India, Japan and Mauritius to name a few.

One of the greatest achievements of UniKL-MIAT is when it became the first Maintenance Training Organisation (MTO) approved by the Civil Aviation Authority of Malaysia (CAAM). To date, UniKL-MIAT has produced nearly 7000 graduates efficiently prepared to meet the demands of current and future aviation technologies and to support Malaysia's human capital in aviation.

The first of its kind in Malaysia, UniKL-MIAT develops a "teaching factory ecosystem" responsible to house industry on its campus to work hand in hand with the industries and to capitalise students and experience from experts. In doing so, the cooperation enhanced direct link to the needs of industries and provided ready graduates for the aviation market.

In terms of professional certificates, UniKL-MIAT embarked a partnership with AERO-Bildungs GmbH of Germany in imparting ab-initio training in the field of Aircraft Maintenance Engineering. Following this initiative, UniKL-MIAT succeeded to be an approved centre in Malaysia for Aviation Maintenance Training Organization (MTO) under the European Aviation Safety Agency (EASA). Surprisingly, it is the only University in South East Asia which holds the approval.

In 2021, UniKL-MIAT proudly launched an Advanced Flight Simulation Center (Advanced Flight Simulation Center) which is one of the training centers for the Boeing 737-800 aircraft. The simulator is equipped with avionics equipment and instruments with real "cockpit" standards. It mimics the aircraft and is recognized by both the local and international aviation authorities for the training of aircraft maintenance engineers. The simulator at UniKL MIAT is the only B737-800 simulator operating in Malaysia other than Malaysia Airlines.

UniKL-MIAT aims to become the premier Center of Excellence for aviation training institution specializing in Aircraft Maintenance Technology in order to meet the global demand. With two campuses specialized in handling aircraft maintenance programs they are strategically located near the Malaysia's main airports, namely KLIA and Subang Airport.



PROGRAMS OFFERED

Pre – Russian University Engineering Program

JPT/BPP (R2/520/3/0040) 01/23, MQA A7481

Diploma of Engineering Technology in Avionics Maintenance

JPT/BPP (R3/525/4/0017) 11/26, MQA A7140

Diploma in Engineering Technology in Aeroplane Maintenance

JPT/BPP (R3/525/4/0021) 11/26, MQA A7141

Diploma of Engineering Technology in Helicopter Maintenance

JPT/BPP (R3/525/4/0022) 11/26, MQA A7142

Bachelor of Aircraft Engineering Technology (Hons.) in Avionics

JPT/BPP (R2/525/6/0064) 03/26, MQA A10146

Bachelor of Aircraft Engineering Technology (Hons.) in Mechanical

JPT/BPP (R3/525/6/0016) 01/28, MQA A7384

Bachelor of Aviation Management (Hons.)

JPT/BPP (R2/345/6/0587) 11/25, MQA A9135

Aircraft Maintenance License Programme – EASA Part 66

JPT/BPP (R/525/3/0110) 02/25, MQA A11113

ENTRY REQUIREMENTS

Pre – Russian University Engineering Program

- Pass SPM/SPMV with at least credits in FIVE (5) subjects including Mathematics or additional Mathematics and Physics; OR
- Pass the O-Level with at least a C Grade in FIVE (5) subjects; OR
- Other equivalent qualifications.

Diploma Programs

- SPM or equivalent with at least credit in Mathematics and Natural Science or Technical based subjects; OR
- Accredited Certificate in Engineering, Engineering Technology, Technical or Malaysian Skills Certificated level 3 with PT3; or equivalent; OR
- Recognized related Technical/ Vocational/ Skills qualifications AND an adequate and relevant bridging programme; OR
- Matriculation Technical or Science Stream; OR
- Pass O Level with at least credit in Mathematics and natural science or Technical based subjects; OR
- APEL A as prescribed by MQA based on appropriate justifications by the IHL.

Bachelor of Aviation Management Program

- Pass Sijil Tinggi Persekolahan Malaysia (STPM) with a minimum Grade C (GP 2.0) in any TWO (2) subjects, and pass in Mathematics and English at SPM level, or any equivalent qualification; OR
- Pass Sijil Tinggi Agama Malaysia (STAM) with a minimum grade of Jayyid, and a pass in Mathematics and English at SPM level; OR
- Any qualification equivalent to Diploma or Advanced Diploma (Level 4 or 5 MQF); OR
- Matriculation / Foundation qualification with minimum CGPA 2.0 out of 4.00 or any equivalent qualification; OR
- Pass A-Level with minimum Grade D in any TWO (2) subjects, and a pass in Mathematics and English at O Level, or any equivalent qualification; OR
- Pass International Baccalaureate (IB) with at least 24 points. Pass Higher National Diploma (HND) UK (MQF level 4) in related area and recognized by Government of Malaysia and according to approval by UniKL Senate; OR
- Diploma Kemahiran Malaysia (DKM) / Diploma Vokasional Malaysia (DVM) subjected to UniKL Senate / Academic Board's approval***; OR
- Diploma Lanjutan Kemahiran Malaysia (DLKM) subjected to UniKL Senate / Academic Board's approval***

***UniKL is to conduct screening and provide necessary guidance specific to the discipline of the programme

Bachelor of Aircraft Engineering Technology Programs

- Pass Sijil Tinggi Persekolahan Malaysia (STPM) or equivalent with minimum Grade C (CGPA 2.0) in Mathematics and ONE (1) relevant science subject; OR
- Pass Sijil Tinggi Agama Malaysia (STAM) with minimum Jayyid minimum Grade C (CGPA 2.0) in Mathematics and ONE (1) relevant science subject or equivalent; OR
- Recognized Diploma in Engineering or Engineering Technology or equivalent with minimum CGPA 2.0; OR
- Recognized related Technical / Vocational / Skills Diploma with minimum CGPA 2.0; OR
- Pass A-Level with minimum Grade D in Mathematics and ONE (1) relevant science subject; OR
- Pass Matriculation with minimum CGPA 2.0 with minimum Grade C (CGPA 2.0) in Mathematics and ONE (1) relevant science subject; OR
- Pass on International Baccalaureate (IB) with at least 24 points. Pass Higher National Diploma (HND) UK (MQF level 4) in related area and recognized by Government of Malaysia and according to approval by UniKL Senate; OR
- APEL A as prescribed by MQA based on appropriate justifications by the IHL.

Professional Aircraft License Engineer EASA Part 66

- Pass Diploma (Level 4, KKM) or Bachelor (Level 6, KKM) in technical / engineering from accredited and approved University or Institution by MALAYSIAN government with at least CGPA pointer 2.00; OR
- Pass Professionals Technical certificates in related field WITH 1 year working experience in aviation related industry; OR
- Pass Sijil Pelajaran Malaysia (SPM) or equivalent and with 3 years working experience in aviation related industry; OR
- 5 years working experience in aviation related industry; OR
- Pass International Baccalaureate (IB) with minimum of 24 point; OR
- Pass A-LEVEL with at least minimum of grades C in Mathematics, English and Science; OR
- Any others qualification that are recognized by government of MALAYSIA.

General Qualification:

PASSES medical health check by medical officer that are acknowledge and approved by MALAYSIAN government (clear and exempted form colour blind, asthma and any physical disability – Refer to CHAPTER 6 – International Civil Aviation Organisation).

Aircraft Maintenance License Program – EASA Part 66

JPT/BPP (R/525/3/0110) 02/25, MQA A11113

UniKL-MIAT is one of the EASA- approved foreign training organizations (EASA.147.0083) which plays an important role in producing more Licensed Aircraft Engineers as the aviation industry grows in a more rapid phase to support local and international demands. Post pandemic, the hiring of licensed engineers is back in steep demand. This is good news for all engineers who want to find or get a better job in Aircraft Maintenance. Every aircraft engineer who wants to be competitive in the job market may consider a certified program such as the EASA Part 66 as the aviation industry is gaining momentum and rapidly evolving. Successful candidates will receive the "Certificate of Recognition (C of R) and considered passed in written examination upon completion of the programme. This program is supported by certified and experienced instructors specializing in dedicated modules.

PROGRAM OFFERED

EASA Part 66 Aircraft Maintenance License: Aeroplanes and Helicopter Category:

- B1.1 Aeroplane Turbine
- B1.2 Aeroplane Piston
- B1.3 Helicopter Turbine
- B2 Avionics

DURATION

2 years program (2400 hours) estimated to be completed in 4 semester.

MODULES	SUBJECT	AEROPLANE		HELICOPTER		AVIONICS B2	DAYS B1	DAYS B2
		B1.1 TURBINE	B1.2 PISTON	B1.3 TURBINE	B1.4 PISTON			
1	MATHEMATICS	X	X	X	X	X	7	7
2	PHYSIC	X	X	X	X	X	17	13
3	ELECTRICAL FUNDAMENTALS	X	X	X	X	X	21	21
4	ELECTRONIC FUNDAMENTALS	X	X	X	X	X	5	21
5	DIGITAL TECHNIQUES ELECTRONIC INSTRUMENT SYSTEM	X	X	X	X	X	19	35
6	MATERIAL AND HARDWARE	X	X	X	X	X	31	20
7	MAINTENANCE PRACTICES	X	X	X	X	X	145	92
8	BASIC AERODYNAMICS	X	X	X	X	X	8	9
9	HUMAN FACTORS	X	X	X	X	X	4	4
10	AVIATION LEGISLATION	X	X	X	X	X	6	6
11A	TURBINE AEROPLANE AND AERODYNAMICS, STRUCTURE AND SYSTEMS	X					100	
11B	PISTON AEROPLANE AND AERODYNAMICS, STRUCTURE AND SYSTEMS		X					
12	HELICOPTER AERODYNAMICS, STRUCTURE AND SYSTEMS			X	X		55	
13	AIRCRAFT AERODYNAMICS, STRUCTURE AND SYSTEMS	X				X		177
14	PROPULSION					X		23
15	GAS TURBINE ENGINE	X		X			55	
16	PISTON ENGINE		X		X		55	
17	PROPELLER	X	X		X		11	

Bachelor of Aircraft Engineering Technology (Hons.) in Avionics

JPT/BPP (R2/525/6/0064) 03/26, MQA A10146

SEMESTER 1

- Electrical Fundamental 1
- Material and Hardware
- Physic and Aerodynamic
- Engineering Mathematics 1
- Communicative Aviation English 1
- Hubungan Etnik / Pengajian Malaysia 3
- Tamadun Islam & Tamadun Asia / Bahasa Melayu Komunikasi 2
- Co-curriculum

SEMESTER 2

- Electrical Fundamental 2
- Human Factor
- Circuit Analysis 1
- Basic Electronic
- Foreign Language 1
- Engineering Mathematics 2
- Communicative Aviation English 2
- Isu - isu Kontemporari Muslim Di Malaysia
- Culture and Lifestyle in Malaysia

SEMESTER 3

- Maintenance Practices
- Digital
- Circuit Analysis 2
- Control System
- Fundamental Communication Engineering
- Professional Aviation English
- Foreign Language 2

SEMESTER 4

- Theory of Flight and Control
- Technical Drawing
- Aircraft Instrument
- Aircraft Navigation
- Aircraft Electrical System 1
- Aircraft Communication System
- Aviation Legislation

SEMESTER 5

- Autoflight Control System
- Aircraft Structure
- Aircraft Radar
- Aircraft Electrical System 2
- Turbine Engine and Indication System
- Technopreneurship
- Elective 1

SEMESTER 6

- Computer Programming
- Project Management
- Elective 2
- Embedded System
- Signal Processing
- Final Year 1

SEMESTER 7

- Integrated information System
- Radio Frequency Theory
- Innovation Management
- Final year Project 2
- Elective 3

SEMESTER 8

- Industrial training

CAREER PATHS

- AIRCRAFT MECHANIC (AVIONICS / ELECTRICAL)
- ELECTRICAL DESIGNER
- ELECTRONIC INTEGRATED SYSTEMS ENGINEER (RADAR)
- AIRCRAFT INTEGRATION ENGINEER

Bachelor of Aircraft Engineering Technology Hons.) in Mechanical

JPT/BPP (R3/525/6/0016) 01/28, MQA A7384

SEMESTER 1

- Material and Hardware
- Electrical Fundamental 1
- Physic and Aerodynamic
- Engineering Mathematics 1
- Communicative Aviation English 1
- Islamic / Moral Studies
- Bahasa Kebangsaan (A)
- Co-curriculum
- Foreign Language 1

SEMESTER 2

- Communicative Aviation English 2
- Electrical Fundamental 2
- Maintenances Practise
- Aircraft Cabin Interior Systems
- Engineering Mathematics 2
- Human factors
- Foreign Language 2
- Co- Curriculum 2
- Malaysian Studies

SEMESTER 3

- Applied Engineering Mechanics
- Technical Drawing
- Thermofluid
- Professional Aviation English
- Aircraft Fire Protection & Fuel Systems
- Electronic Fundamental (Mechanical)
- Aircond and Pressurization Systems
- Material Fabrications and Processes

SEMESTER 4

- Theory of Flight and Control
- Aircraft Structure
- Propeller
- Piston Engine 1
- Computer Programming
- Digital Technique (Mechanical)
- Hydraulic and Pneumatic Systems
- Technopreneurship

SEMESTER 5

- Landing Gear System
- Aircraft Electrical System
- Gas Turbine Engine 1
- Computer-Aided Engineering
- Electronic and Avionic Systems
- Mechanic of Materials
- Innovation Management

SEMESTER 6

- Aircraft Flight Control Systems
- Aircraft structure
- Piston Engine 2
- Fundamental of Airline Economics
- Quality Assurance and Reliability
- Final Year 1

SEMESTER 7

- Aircraft Composite Repairs
- Aviation Legislation
- Gas Turbine Engine 2
- Instrument and Avionics Systems
- Final year Project 2
- Aircraft Maintenance and Logistics

SEMESTER 8

- Industrial training

CAREER PATHS

- MECHANICAL SYSTEMS ENGINEER – AIRCRAFT INTERIORS
- AIRCRAFT ELECTRICIAN (AIRCRAFT PNEUDRAULIC SYSTEMS MECHANIC)
- MECHANICAL INSPECTOR
- MECHANICAL SYSTEMS ENGINEER
- MECHANICAL DESIGN ENGINEER

Bachelor of Aviation Management (Hons.)

JPT/BPP (R2/345/6/0587) 11/25, MQA A9135

SEMESTER 1

- Professional English 1
- Applied Statistics
- Tamadun Islam & Tamadun Asia
- Bahasa Melayu Komunikasi 2
- Fundamental English
- Co- Curriculum
- Introduction to Air Transport and Aviation Industry
- Principle of Management Information System
- Principle of Management

SEMESTER 2

- Principle of Logistics
- Principle of Economics
- Law of Contract
- Project Management
- Human Resource Management in Aviation
- Mandarin 1
- Isu - isu Kontemporari Muslim di Malaysia
- Culture and Lifestyle in Malaysia
- Principle of accounting & Finance

SEMESTER 3

- Hubungan Etnik
- Pengajian Malaysia 3
- Aviation Economics
- Air Transport Policy
- Air Transport Planning
- Mandarin 2
- Strategic Management
- Aviation Regulations

SEMESTER 4

- Innovation Management
- Management of Quality
- Air Transport Planning
- Aviation Finance
- Air Freight Logistics
- Airport Management
- Airline Engineering Management

SEMESTER 5

- Professional English 2
- Air Transport Management
- Technopreneurship
- Warehouse Management
- Airport Planning & Design
- Aviation Security and Safety

SEMESTER 6

- Internet of Thing (Iot) & Data Analytics
- Integrated Project

SEMESTER 7

- Industrial training

ELECTIVE SUBJECTS

- Aircraft Maintenance Management
- Airline Station management
- Air Cargo Operations and Management
- Aviation Information Technology
- Air Traffic Management
- Airline Catering Management

CAREER PATHS

- AVIATION COORDINATOR
- AIRPORT OPERATIONS SUPERVISOR, AIRSIDE
- AIRPORT SERVICES SPECIALIST
- ANALYST, CARGO REGULATORY COMPLIANCE
- AIRLINE FLIGHT OPERATION MODELLING & SIMULATION SPECIALIST

Diploma of Engineering Technology in Avionics Maintenance

JPT/BPP (R3/525/4/0017) 11/26, MQA A7140

SEMESTER 1

- Material and Hardware
- Physic and Aerodynamic
- Electrical Fundamental 1
- Technical Mathematics 1
- Foundation Aviation English
- Islamic / Moral Studies
- Bahasa Kebangsaan (A)
- Co – Curriculum 1

SEMESTER 2

- Technical Mathematics 2
- Foreign Language 1
- Malaysian Studies
- Electrical Fundamental 2
- Electronics Fundamental (Avionics)
- Maintenance Practices
- Theory of Flight and Control

SEMESTER 3

- Aircraft Structure
- Basic Instrument system
- Aircraft Instrument System
- Propulsion
- Digital Techniques (Avionics)
- Aviation Legislation
- Intermediate Aviation English
- Foreign Language 2
- Co – Curriculum 2

SEMESTER 4

- Aircraft Electrical Systems 1
- Aircraft Communication Systems
- Electronics Instrument Systems
- Human Factors
- Aircraft Navigation Systems
- Integrated Information System

SEMESTER 5

- Aircraft Electrical Systems 2
- Auto Flight Systems
- Aircraft Radar Systems
- Compass And Compensations
- Advanced Aviation English
- Introduction To Entrepreneurship
- Final Year Project

SEMESTER 6

- Industrial training

CAREER PATHS

- AIRCRAFT SYSTEMS MECHANIC
- ELECTRONIC INTEGRATED
- SYSTEMS MECHANIC
AIRCRAFT SYSTEMS MECHANIC
- ELECTRONIC INTEGRATED
SYSTEMS MECHANIC

Diploma of Engineering Technology in Aeroplane Maintenance

JPT/BPP(R3/525/4/0021) 11/26, MQA A7141

SEMESTER 1

- Material and Hardware
- Physic and Aerodynamic
- Electrical Fundamental 1
- Technical Mathematics 1
- Foundation Aviation English
- Islamic / Moral Studies
- Bahasa Kebangsaan (A)
- Co – Curriculum 1

SEMESTER 2

- Maintenance Practices
- Aircraft Fire Protection and Fuel Systems
- Theory of Flight and Control
- Electrical Fundamental 2
- Piston Engine 1
- Technical Mathematics 2
- Malaysia Studies
- Mandarin 1

SEMESTER 3

- Aircraft Structure
- Hydraulic Pneumatic System
- Aircraft Flight Control System
- Electronic Fundamental (Mechanical)
- Aviation Legislation
- Gas Turbine Engine 1
- Intermediate Aviation English
- Mandarin 2
- Co – Curriculum 2

SEMESTER 4

- Piston Engine 2
- Human Factors
- Aircond Pressurization Systems
- Landing Gear Systems
- Aircraft Electrical Systems
- Digital Techniques (Mechanical)

SEMESTER 5

- Propeller
- Gas Turbine Engine 2
- Advanced Aviation English
- Final year project
- Introduction to Entrepreneurship
- Electronics Instrument System
- Instrument and Avionics Systems

SEMESTER 6

- Industrial training

CAREER PATHS

- AIRCRAFT MECHANIC
- AIRCRAFT PNEUDRAULIC
SYSTEMS MECHANIC
- AVIATION AIRFRAME AND
POWERPLANT TECHNICIAN
(ROTARY WING)

Diploma of Engineering Technology in Helicopter Maintenance

JPT/BPP (R3/525/4/0022) 11/26, MQA A7142

SEMESTER 1

- Physic and Aerodynamic
- Foundation Aviation English
- Material and Hardware
- Islamic Practices in Malaysia
- Technical Mathematics 1
- Electrical Fundamental 1
- Religious Practices in Malaysia
- Interpersonal Skills
- Co – Curriculum 1

SEMESTER 2

- Maintenance Practices
- Piston Engine 1
- Rotocraft theory of Flight and Controls
- Malaysia Studies
- Electrical Fundamental 2
- Mandarin 1
- Technical Mathematics 2

SEMESTER 3

- Aircraft Structure
- Gas Turbine Engine 1
- Rotocraft Flight Control Systems
and Power Train
- Aviation Legislation
- Intermediate Aviation English
- Mandarin 2
- Rotocraft Systems, Maintenance
and Role Equipment
- Electronic Fundamental (Mechanical)

SEMESTER 4

- Aircraft Electrical Systems
- Piston Engine 2
- Hydraulic and Pneumatics Systems
- Landing Gear Systems
- Aircraft Cabin Interior Design
- Digital Techniques (Mechanical)
- Human Factors

SEMESTER 5

- Gas Turbine Engine 2
- Advanced Aviation English
- Introduction to Entrepreneurship
- Final Year Project
- Aircraft Fire Protection and Fuel Systems
- Electronics Instrument System
- Instrument and Avionics Systems

SEMESTER 6

- Industrial training

CAREER PATHS

- HELICOPTER ENGINE
REPAIR MECHANIC
- HELICOPTER MAINTENANCE
SUBJECT MATTER EXPERT

Pre – Russian University Engineering Program

JPT/BPP (R2/520/3/0040) 01/23, MQA A7481

SEMESTER 1

- Mathematics 1
- Russian Language 1
- Physics 1

SEMESTER 2

- Mathematics 2
- Physics 2
- Russian Language 2
- Informatics 1
- Technical Drawing 1
- Islamic Studies

SEMESTER 3

- Mathematics 3
- Physics 3
- Russian Language 3
- Informatics 2
- Technical Drawing 2
- Interpersonal Skill



UNIVERSITI KUALA LUMPUR KAMPUS CAWANGAN
MALAYSIAN INSTITUTE OF AVIATION TECHNOLOGY (UniKL-MIAT)

Lot 2891, Jalan Jenderam Hulu,
Kampung Jenderam Hulu,
43900 Dengkil, Selangor



+603 - 8768 8487



+603 -8768 8485



enquiries.miat@unikl.edu.my



UNIVERSITI KUALA LUMPUR
1016, Jalan Sultan Ismail,
50250 Kuala Lumpur



+603 - 2175 4000



+603 - 2175 4001



marketing@unikl.edu.my



www.unikl.edu.my



UniKL Page



MARA
CORPORATION

**WHERE KNOWLEDGE IS APPLIED
AND DREAMS REALISED**



INTAKE AVAILABLE

JANUARY, JULY & SEPTEMBER EVERY YEAR!

Apply online:

www.unikl.edu.my