

TENTATIVE PROGRAMME STRUCTURE (FULL-TIME)

Semester	Code	Course	Credit
Year 1 Semester I	U### xxxw	University Compulsory Course	3
	MKMF 1903	Research Methodology	3
	MKMF 1213	Advanced Mathematics for Aeronautical Engineering Application	3
	MKMF 1313	Advanced Aerodynamics	3
	MKMF xxxv	Elective I	3
Total Credits			15
Year 1 Semester II	MKMF 2013	Computational Method for Aerostructures	3
	MKMF xxxw	Elective II	3
	MKMF xxxx	Elective III	3
	MKMF xxxv	Elective IV	3
	MKMF 1914	Master Project I	4
Total Credits			16
Year 1 Semester III	MKMF 2926	Master Project II	6
	MKMF xxxz	Elective V	3
Total Credits			9
Grand Total Credits			40

TENTATIVE PROGRAMME STRUCTURE (PART-TIME)

Semester	Code	Course	Credit
Year 1 Semester I	MKMF 1903	Research Methodology	3
	MKMF 1213	Advanced Mathematics for Aeronautical Engineering Application	3
	MKMF 1313	Advanced Aerodynamics	3
	Total Credits		9
Year 1 Semester II	MKMF 2013	Computational Method for Aerostructures	3
	MKMF xxxv	Elective I	3
	MKMF xxxw	Elective II	3
	Total Credits		9
Year 1 Semester III	MKMF xxxx	Elective III	3
	Total Credits		3
Year 2 Semester I	MKMF 1914	Master Project I	4
	MKMF xxxy	Elective IV	3
	Total Credits		7
Year 2 Semester II	MKMF 2926	Master Project II	6
	MKMF xxxz	Elective V	3
	Total Credits		9
Year 2 Semester III	U## xxxw	University Compulsory Course	3
	Total Credits		3
	Grand Total Credits		40

* Part time not more than 10 credit per semesters

FEES

Malaysian			**International
Master	Full Time (3-6 semesters)	Part Time*** (4-8 semesters)	Full Time (3-6 semesters)
Taught Course	RM9,310.00	RM8,230.00	RM22,285.00
Research	RM8,210.00	RM7,430.00	RM18,935.00

Malaysian			**International
Doctor of Philosophy	Full Time (6-12 semesters)	Part Time (8-14 semesters)	Full Time (6-12 semesters)
Research	RM15,770.00	RM14,210.00	RM37,220.00

* Fees for international applicants does not include the Personal Bond & Medical Check-up

* Fees for part-time weekday programme

** For part-time (weekend programme):

Penang : RM28,000 – RM 31,000 for 4 semesters
Kuala Lumpur : RM 24,000 – RM 28,000 for 4 semesters
Johor Bahru : RM 18,000 – RM 20,000 for 4 semesters

Note : Fees are subject to changes and may be paid in instalments .



UTM
UNIVERSITI TEKNOLOGI MALAYSIA



MASTER OF SCIENCE AERONAUTICAL ENGINEERING by Taught Course



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PROGRAMME OBJECTIVE

The objective of Master of Science (Aeronautical Engineering) program is to enhance participants with further knowledge and skills in Aeronautical Engineering. After completion of the program, graduates should be able to develop, integrate and utilise ideas to solve complex problems in the field in an ethical and professional manner, demonstrate leadership attributes and maintain cooperative networking and team working, communicate ideas intellectually and effectively, and conduct research activities, manage information and pursue life-long learning.

DURATION

The full-time program can be completed in a minimum of one year, i.e. two normal semesters and one short semester. The maximum period for the completion of the full-time program is six normal semesters (nominally 3 years). The maximum duration allowed for part-time students is 8 normal semesters (nominally 4 years).

ADMISSION REQUIREMENT

The normal requirement for admission to the program is a four-year bachelor degree recognized by the university in either engineering or sciences with a minimum overall grade point average of 3.0 or equivalent. Students applying for admission with a grade point average of less than 3.0 but with relevant professional experience may however be considered.

GRADUATION REQUIREMENT

Students must obtain a minimum grade of B minus (60% marks) for each subject and an overall average of B (65%) to graduate. Students are required to complete a minimum of 40 credits, 3 credits are from university compulsory course, 12 credits are from core Aeronautical Engineering course, 10 credits of master project and the remaining 15 credits are from program elective courses.

APPLICATION

Information on procedures, regulations and application form can be obtained from the School of Graduate Studies website <http://www.sps.utm.my>.

FACILITIES

- Aeronautics Laboratory, incorporating UTM Low-Speed Wind Tunnel
- Gas Turbine and Combustion Laboratory
- Rocket Propulsion Laboratory, including both solid and liquid propellant laboratories
- Computational Mechanics Laboratory
- Flight Simulation Laboratory
- Avionics Laboratory
- Laser Diagnostics Laboratory
- Aircraft Structures Laboratory
- Centre for Composites
- Helicopter Hangar
- Software to support courses (Fluent, Abaqus, Matlab etc)

TENTATIVE PROGRAMME STRUCTURE

Code	Course Name	Credits
UNIVERSITY COMPULSORY COURSE (3 Credits)		
UCSM 1263	Information Technology Project Management	3*
UHAP 6013	Seminar On Global Development, Economics And Social Issues	3*
UHAZ 6123	Malaysian Society and Culture	3*
UHAF 6033	Dynamics of Leadership	3*
UHAW 6023	Social Development And Science Philosophy	3*
UHAZ 6323	Malay Language And Scientific Writing	3*
UDPE 1123	Organization Behavior and Development	3*
(or other courses Uxxx xxx3)		
* Choose 1 Course Only Sub Total Credits		3
PROGRAM CORE COURSES (12 Credits) (Compulsory)		
MKMF 1213	Advanced Mathematics for Aeronautical Engineering Application	3
MKMF 1313	Advanced Aerodynamics	3
MKMF 2013	Computational Method for Aerostructures	3
MKMF 1903	Research Methodology	3
Sub Total Credits		12
ELECTIVE COURSES (15 credits)		
MKMF 2113	Advanced Aircraft Structures and Materials	3*
MKMF 2123	Structural Dynamics and Aeroelasticity	3*
MKMF 1223	Aircraft Instrumentation and Avionics	3*
MKMF 2213	Advanced Aircraft Dynamics and Control	3*
MKMF 2323	Computational Aerodynamics	3*
MKMF 2333	Compressible Fluid Flow	3*
MKMF 2343	Industrial Aerodynamics and Wind Engineering	3*
MKMF 2353	Experimental Aerodynamics	3*
MKMF 2363	Helicopter Aerodynamics	3*
MKMF 2413	Fuel and Propellant	3*
MKMF 2423	Jet Propulsion	3*
MKMF 2433	Rocket Technology	3*
MKMF 2443	Gas Turbine Technology	3*
MKMF 2513	Helicopter System and Performance	3*
* Choose 5 Course Only Sub Total Credits		15
MASTER PROJECT		
MKMF 1914	Master Project I	4
MKMF 2926	Master Project II	6
SubTotal Credits		10
TOTAL CREDIT		40

Elective courses are offered based on availability of staff and facilities.