Ocean of Discoveries, for Global Sustainability





FTKKI Technology to Lead

POSTGRADUATE PROGRAMMES

FACULTY OF OCEAN ENGINEERING TECHNOLOGY AND INFORMATICS UNIVERSITI MALAYSIA TERENGGANU

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Postgraduate Programmes

- 1. MASTER OF COMPUTER SCIENCE
- 2. MASTER OF INFORMATION TECHNOLOG
- 3. MASTER OF MATHEMATICS
- 4. MASTER OF STATISTICS IN MARINE SCIENCE

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INTRODUCTION FACULTY OF OCEAN ENGINEERING TECHNOLOGY AND INFORMATICS (FTKKI) ENCOMPASSES VARIOUS DISCIPLINES; SCIENCE, TECHNOLOGY, ENGINEERING, COMPUTER, MATHEMATICS, ENVIRONMENTAL, AND MARITIME, ALL DEDICATED TO PRODUCE GRADUATES WHO ARE COMPETITIVE GLOBALLY. Graduate Programmes by coursework are offered to the local and international students that fulfil admission requirements as specified by respective programme. Students enrolled in this programme are required to fulfil forty (40) / forty-four (44) credits comprising coursework, Postgraduate Colloquium Project and a dissertation. The dissertation is submitted at the end of the programme. In some programmes, a comprehensive examination is required. To date, FTKKI has four (4) master by coursework programmes which are Master of Computer Science, Master of Information Technology, Master of Mathematics and Master of Statistics in Marine Science.

PROGRAMME INFORMATION

MASTER BY COURSEWORK

https://ftkki.umt.edu.my https://postgrad.umt.edu.my

APPLY ONLINE AT

https://gsea.umt.edu.my

LIST OF FIELDS, SUBFIELDS AND SPECIALIZATIONS

FIELD	SUB FIELD	SPECIALIZATION
Engineering and Engineering	Chemical Engineering and	Chemical Processes
Trades (NEC Code:: 520)	Technology	Membrane Technologu
		Petrochemical Technology
		Biological Engineering
		Nanomaterial and Nanotechnology
		Separation Technology
Factor states and Factor states	Manifican Francisco and	
Engineering and Engineering		Metasial Facialassian
Hades (NEC Code.: 520)	тестногоду	Material Engineering
		Naval Architecture
		Orrshore Engineering
		Subsea Engineering
		Marine Engineering
		Acoustical Engineering
		Ship Structure Engineering
		Lombustion
		Thermo fluids
	Electricity and Energy	Computational Modelling and Simulation
		Renewable Energy
	Electronics	Automation and Control
		Instrumentation
		Communications and Network
Physical Science (NEC Code:: 440)	Physics	Electronics and Instrumentation
		Material Physics
		Solid State Physics
		Enerau
	Remote Sensing	Communications and Signal Processing
Computer Colored (NEC Codeu (01)	Computer Spinger	
Computer Science (NEC Code:: 481)		
		Computer Systems
		UdldUdSeS
		Image Processing
		Information Systems
		Multimetia Software Faciales
		Communication and Security
		Concurrent, Parallel and Distributed Computing
Mathematics (NEC Code:: 461)	Mathematical Sciences	Algebra
		Analysis
		Decision Sciences
		Differential Equations
		Financial Mathematics
		Fuzzy Mathematics
		History and Philisophical Mathematics
		Mathematical Modelling
		Numerical Analysis
		Operations Research
		Opitimization
		Statistics
		Computational Mathematics and Modelling
		Applied Statistics
		Fuzzu Modelling
		Operations Research and Ontimization

O1 Master of Computer Science

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APPLY ONLINE AT

STRUCTURE

CREDIT HOURS: 40 credits (22 core courses + 8 elective

courses + 10 master project)

Course Title	Course Classification	Credit
Research Methodology	Соге	3(3+0)
Graduate Colloquium Project	Соге	3(0+3)
Software Project Management	Соге	4(4+0)
Algorithm Analysis	Соге	4(4+0)
Internet Technology	Соге	4(4+0)
Machine Learning	Соге	4(4+0)
Software Testing Methodology	Elective	4(4+0)
Software Quality Management	Elective	4(4+0)
Decision Support System	Elective	4(4+0)
Advanced Digital Image Processing	Elective	4(4+0)
Master Project	Project	10(0+10)

PROGRAM EDUCATION OBJECTIVES

- Knowledgeable in Computer Science and able to use technical, scientific and critical thinking skills for any computing solution in various disciplines;
- Knowledgeable in Computer Science and able to use technical, scientific and critical thinking skills for any computing solution in various disciplines;
- Able to explore entrepreneurial or business opportunities involving computing technology, work professionally, ethically and keep abreast of the development of computer science and technology by practicing lifelong learning;
- Mastering digital and numeracy skills and willingly take on the leader role with the advanced knowledge of Computer Science in various disciplines

DURATION

FLEXIBLE CLASS SESSION

FEES STRUCTURE

CONTACT : FTKKI Postgraduate Secretariat:

ADMISSION REQUIREMENT

Bachelor's Degree in Computer

Science (Software Engineering)

or Bachelor's Degree in Computer

Science (Informatics Maritime)

with a minimum CGPA of 2.75

Bachelor's degree with Honours

in related field with a good grade.

from higher institution recognized

Candidate that obtained minimum CGPA 2.50 also gualify if they

possesses minimum five (5)

years' work experiences in the

equivalent to Bachelor Degree

and possesses related professional experiences

recognized by the Senate;

OR CGPA of 2.75/4.00 and above; OR

Academic criteria as follows:

from UMT;

by the Senate;

related field:

OR

OR

OR

OR

- Passed the APEL assessment conducted by MQA in Computer Science to be eligible for admission to Masters level programs (Level 7, Malaysian Qualifications Framework) * Candidate must furnish
 - the APEL Certificate from MQA before the admission Drocess
- International candidate that qualifications possesses equivalent to Bachelor's Degree in Computer Science recognized by the Senate.

English Requirement for international candidates:

 TOEFL with minimum score 550: Any other academic qualifications OR

• IELTS with minimum band 6.0.

International students that obtained academic qualification from Malaysia public higher institution that recognized by Senate are excluded from English qualification.

Master of Information Technology

PROGRAMMES STRUCTURE	Course Title
	Research Me
	Graduate Col
	Open-source
	Software Dev Technology
	Data Analytic
CREDIT HOURS:	Strategic App Information S
40 credits e courses + 8 elective	Decision Sup
es + 10 master project)	Digital Marke
	Software Tes

PROGRAM EDUCATION OBJECTIVES

- Able to use scientific and critical thinking skills to meet the needs of university thrusts and industry;
- Able to communicate and aware of social responsibility to keep abreast of current information technology development;
- Able to apply information technology skilss with professionalism and ethical values to improve quality and productivity in the workplace: and
- Able to explore entrepreneurial business opportunities as well as have high leadership qualities and be able to adapt current technology for lifelong learning.

DURATION

FLEXIBLE CLASS SESSION

FEES STRUCTURE

CONTACT	FTKKI Postgraduate Secretar
	Mohd Rahime Fauze Abdul R
Email	mrahime@umt.edu.my

Course Title	Course Classification	Credit
Research Methodology	Core	3(3+0)
Graduate Colloquium Project	Соге	3(0+3)
Open-source Programming	Соге	4(4+0)
Software Development & Management Technology	Соге	4(4+0)
Data Analytics	Соге	4(4+0)
Strategic Approach of Managing Information Systems	Соге	4(4+0)
Decision Support System	Elective	4(4+0)
Digital Marketing	Elective	4(4+0)
Software Testing Methodology	Elective	4(4+0)
Master Proiect	Proiect	10(0+10)

ADMISSION REQUIREMENT

Academic criteria as follows:

Bachelor's Degree in various fields from UMT with minimum CGPA of 2.75: or equivalent qualifications OR from UMT or any other academic qualifications from UMT or other higher institutions that recognized bu the UMT's Senate:

OR

Bachelor's Degree in related fields with minimum CGPA of 2.50 or equivalent qualifications, and possesses five (5) years' work experiences that recognized by the UMT's Senate:

OR

Any other academic qualifications OR equivalent to Bachelor Degree and possesses related professional experiences recognized by the Senate; OR

Passed the APEL assessment conducted by MQA in Information Technology to be eligible for admission to Masters level programs (Level 7, Malaysian Qualifications Framework)

APEL Certificate from MQA before the admission process

* Candidate must furnish the

- possesses qualifications equivalent to Bachelor's Degree or related professional experience recognized that recognized by the Senate. Candidates who do not have a Computer Degree, must follow the
- pre-requisite modules in computing.

English Requirement for international

- TOEFL with minimum score 550;
- IELTS with minimum band 6.0.
 - International students that obtained academic gualification from Malaysia public higher institution that recognized by Senate are excluded from English qualification.

PROGRAMME INFORMATION

https://ftkki.umt.edu.my https://postgrad.umt.edu.my

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https://gsea.umt.edu.my

candidates:

International candidate that

03 Master of Statistics in Marine Science

		Classification	n
	Research Methodology	Соге	3(3+0)
	Postgraduate Colloquium Project	Соге	3(0+3)
)ceanography Data Analysis	Соге	4(4+0)
	ime Series Analysis in Marine	Соге	4(4+0)
	Predictive Analysis	Соге	4(4+0)
	xploratory Marine Data Analysis	Соге	4(4+0)
*	Machine Learning	Elective	4(4+0)
CREDIT HOURS:	Data Analysis using R	Elective	4(4+0)
44 credits	Stochastic Modelling in Physical Oceanography	Elective	4(4+0)
elective courses + 10	Convex and Nonlinear Optimization in Maritime Proble	m Elective	4(4+0)
master project)	Aaster Project	Project	10(0+10)
*	Note: For electives courses, choose any three (3) electiv	es courses.	
PROGRAM EDUCATION OBJECTIVES	ADMISSION REQUIREMENT		
 Knowledgeable and have a deep understanding of statistics in marine science and eager to explore new and challenging field of knowledge. Proficient in using computer technology to solve statistical problems in marine science critically and innovatively. Able to lead with trust and full ethical and able to work with team members professionally. Ability to organize ideas, information, and data on a regular basis and be able to deliver it effectively through the effective use of technology. Ability to identify opportunities and the ability to develop a business plan based on knowledge in the field of statistics in marine science. 	 Academic criteria as follows: Bachelor's Degree (Level 6 of the Malaysian Qualifications Framework, MQF) of Science (Applied Mathematics) or Bachelor of Science (Financial Mathematics) with a minimum Cumulative Grade Point Average (CGPA) of 2.75 from Universiti Malaysia Terengganu (UMT); OR Interna qualifications Framework, MQF) of Science (Level 6 of the Malaysian Qualifications Framework, MQF) of Science with Honors and equivalent with a minimum CGPA of 2.75 from higher learning institution recognized by the Senate; 	ograms (Level 7, 1 cations Framewor ididate must furnis tificate from MQA mission process tional candidates ations equivalent to ce degree and are in Senate. Inguage Proficien nts: tional applicants in owing language quast of English as inguage (TOEFL)	Malaysian rk, MQF) h the APEL before the who have a Bachelor recognized cy must have alifications: a Foreign with a
 DURATION Full-time - minimum 2+1 semesters (12 months) Part-time - minimum 4+2 semesters (24 months) FLEXIBLE CLASS SESSION Weekdays after working hours / weekend FEES STRUCTURE Local student: RM11,140.00 International student: RM17,810.00 	 OR min Candidates with a Bachelor's Degree (Level 6 of the Malaysian Qualifications Framework, MQF) of Science with a minimum 2.50 CGPA are also eligible if they have at least five (5) years of work experience in a related field; OR Passed the APEL assessment conducted by MQA in related fields to be eligible for admission to master's 	nimum score ernational English sting System (IEL nimum band sco tional students wh nic qualifications university recog T's Senate may be he language qu ements.	of 550; Language TS) with a re of 6.0. to possess from any gnized by exempted alification
CONTACT : FTKKI Postgraduate Secretari Mohd Rahime Fauze Abdul Ra Email : mrahime@umt.edu.my Tel : +609-668 3374	at: Dr. Che Mohd Imran Che Taib Ihman Chairman of Mathematics Email : imran@umt.edu.my Tel : +609-668 3759		

Course Credit

Course Title

PROGRAMME INFORMATION

https://postgrad.umt.edu.my

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https://gsea.umt.edu.my

- Proficient in usi solve statistical critically and in
- Able to lead with to work with tea
- Ability to organiz on a regular ba effectively thro technology.
- Ability to identify to develop a busi in the field of sta

DURATION

FLEXIBLE CLASS

FEES STRUCTU

A Master of Mathematics

PROGRAMMES

STRUCTURE

CREDIT HOURS:
44 credits
22 core courses + 12
elective courses + 10
master project)

Course Classification	Credit
Core	3(3+0)
Core	3(0+3)
Core	4(4+0)
Elective	4(4+0)
Project	10(0+10)
	Course Classification Core Core Core Core Core Core Elective Elective Elective Elective Elective Elective Elective Elective Ploject

*Note: For electives courses, choose any three (3) electives courses.

ADMISSION REQUIREMENT

Academic criteria as follows:

Bachelor's Degree (Level 6 of the Malaysian Qualifications Framework, MQF) of Science (Applied Mathematics) or Bachelor of Science (Financial OR Mathematics) with a minimum Cumulative Grade Point Average (CGPA) of 2.75 from Universiti Malaysia Terengganu (UMT); OR

Candidates with a Bachelor's Degree

(Level 6 of the Malaysian Qualifications

Framework, MQF) of Science with a

minimum 2.50 CGPA are also eligible

if they have at least five (5) years of

work experience in a related field;

Bachelor's Degree (Level 6 of the Malaysian Qualifications Framework, Ability to identify opportunities and the ability MQF) of Science with Honors and to develop a business plan based on knowledge equivalent with a minimum CGPA of 2.75 from higher learning institution recognized by the Senate;

OR

OR

DURATION

technology.

PROGRAM EDUCATION OBJECTIVES

challenging field of knowledge.

Knowledgeable and have a deep understanding

in mathematics and eager to explore new and

Proficient in using computer technology to

solve problems critically and innovatively.

Able to lead with trust and full ethical and able

to work with team members professionally. Ability to organize ideas, information, and data

on a regular basis and be able to deliver it

effectively through the effective use of

FLEXIBLE CLASS SESSION

in the field of mathematics.

FEES STRUCTURE

CONTACT : FTKKI Postgraduate Secretariat:

- Qualifications Framework, MQF) * Candidate must furnish the APEL Certificate from MQA before the admission process
- International candidates who have qualifications equivalent to a Bachelor of Science degree and are recognized by the Senate.

English Language Proficiency Requirements:

- International applicants must have the following language qualifications:
 - Test of English as a Foreign Language (TOEFL) with a minimum score of 550; OR
 - International English Language Testing System (IELTS) with a minimum band score of 6.0. International students who possess academic qualifications from any public university recognized by the UMT's Senate may be exempted from the language gualification

Passed the APEL assessment conducted by MQA in related fields to be eligible for admission to master's level programs (Level 7, Malaysian requirements.

PROGRAMME INFORMATION

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FTKKI Technology to Lead

FAKULTI TEKNOLOGI KEJURUTERAAN KELAUTAN DAN INFORMATIK (FTKKI) Universiti Malaysia Terengganu 21030 Kuala Nerus, Terengganu. Malaysia

******* 609 668 3320

- +609 668 3326
- (Ö) officialftkki
- 🔀 ftkki@umt.edu.my
- Fakulti Teknologi Kejuruteraan Kelautan dan Informatik (FTKKI)

