

MASTER OF PHILOSOPHY

PROGRAMME SPECIFICATIONS

1. Programme Name	Master of Philosophy
2. Final Award	Master of Philosophy
3. Awarding Institution	UTM
4. Teaching Institution	UTM
5. Programme Code	MKAB, MAKE, MKAG, MKAJ, MKAL, MKAN, MKAT, MKAU, MKAV, MKAW
6. Professional or Statutory Body of Accreditation	MQA
7. Language(s) of Instruction	English
8. Mode of Study (Conventional, distance learning, etc)	Conventional
9. Mode of operation (Franchise, self-govern, etc)	Self-governing
10. Study Scheme (Full Time/Part Time)	Full Time
11. Study Duration	Minimum : 3 semesters Maximum : 8 semesters
12. Entry Requirement	<p>A Bachelor's Degree with good honours from Universiti Teknologi Malaysia or any other institution of higher learning recognised by the Senate; or</p> <p>A qualification equivalent to a Bachelor's Degree and experience in the relevant field recognised by the Senate</p> <p>An international student should satisfy the English language minimum requirement of TOEFL score of 550 or IELTS band 6.0, or equivalent. A local student must produce a satisfactory score from MUET.</p> <p>Accepted by the post-graduate selection committee of the faculty involved.</p> <p>At least one member from the faculty who has at least a Master degree in the field of study is qualified and willing to supervise the candidate.</p> <p>Pass the health, financial and other requirements as specified by the university.</p>
13. Programme Educational Objectives (PEO)	

1	Mastery of competencies and integration of knowledge required in the profession.
2	An appreciation of the value of lifelong learning and possessing enthusiasm and strong commitment to continued acquisition of new knowledge and skills.
3	Advanced research skills that allow professionals to become competent in
4	research.
5	Highly developed oral and written communications skills that fit at all level, appropriate to the field of profession. An appreciation of the ethics and integrity in management, leadership and good governance, and responsibility to their professions and community

14. Programme Outcomes (PO)

(a) Technical Knowledge and Competencies

Code	Intended Learning Outcomes	Teaching and Learning Methods	Assessment
PLO 1	Advanced Knowledge: Graduate are able to incorporate in-depth relevant knowledge in professional practices for the benefits of both national and international communities. Graduates are able to apply their knowledge and skills in the planning, analysis, design and supervision of works related to the civil engineering discipline	Seminars, laboratory works, directed reading, independent study.	Presentations, research reports.
PLO 2	Research Skills Graduate are able to formulate hypothesis, design and perform experiments/research scientifically to solve and explain observed phenomena.	Project supervision, laboratory works, directed reading, independent study, problem-based learning.	Master thesis, research reports.
PLO 3	Critical Thinking and Problem Solving Graduate are able to manage conducive working environment qualities problem solving and higher order thinking skills. Graduate are technically competent in solving problems logically, analytically and	Project supervision, laboratory works, directed reading, independent study, problem-based learning.	Master thesis, research reports.

	creatively based on sound facts and ideas.		
15. Programme Outcomes			
Code	Intended Learning Outcomes	Teaching and Learning Methods	Assessment
(b) Generic Skills			
PLO 4	Ethics, Values, Professionalism Graduate are able to balance professional and ethical responsibilities including contemporary issues and environmental awareness.	Masters' thesis and presentation, independent study.	Master thesis, research reports.
PLO 5	Communication Graduate are able to apply a wide range of relevant knowledge through effective oral and written communications. Graduates are able to communicate effectively across a range of contexts and audiences.	Research projects, independent study.	Presentations, research reports.
PLO 6	Life Long Learning Graduate are able to adopt the latest relevant knowledge and cutting-edge technologies through life-long learning process.	Research projects, independent study, site visit, co-curriculum and social activities.	Oral presentations, Master thesis, research reports, co-curriculum and social activities.
16. Classification of Subjects			
No.	Classification	Credit Hours	Percentage
1.	University Elective Course	3	3.3%
2.	Research Methodology	0	0.0%
3.	Master Thesis	30	100%
TOTAL		33	100%
17. Programme structures and features, curriculum and award requirements			
<p>The course is offered on full-time mode. Assessment is based on research reports, Master thesis and oral presentations.</p> <p>Award requirements: To graduate, students should: Attain a total of no less than 3 credit hours with minimum CPA of 3.0. Attend compulsory courses (University's General Elective Course and Research Methodology Course)</p>			

Complete and pass the Master of Philosophy dissertation and viva (oral presentation).

18. Our Uniqueness

No. of graduates
Employability rate
Leaders in industry
Diversity of lecturers
Biggest Civil Engineering School in the world
One of the biggest Civil Engineering lab/facilities in the region
ISO 9001:2000 and ISO 17025 accreditations (the only one in the world for Civil Engineering)

19. Career Prospects and Career Path

Graduates of the programme can work as a Project Engineer, Construction Engineer, Hydraulic Engineer, Environmental Engineer, Highway and Transport Engineer or Geotechnical Engineer.

20. Facilities available

List of laboratories:
Structural Engineering Laboratory
Material Engineering Laboratory
Hydraulics and Hydrology Laboratory
Environmental Laboratory
Geotechnical Laboratory
Highway & Transportation Laboratory
Computer Laboratory
CETU
ITUCE
Resource Centre
Surveying Unit

CURRICULUM STRUCTURE

Name of the Program		: Master of Philosophy
Name of the Degree (Field of Research)	:	Master of Philosophy - Transportation - Coastal and Maritime - Materials - Construction - Highway and Traffic - Structure & Materials - Hydraulics - Environment - Geotechnics - Structures
University's General Elective Courses(Total : 3 credits)		
UXX XXX3		3 credits
UAPA 0010	Research Methodology	0 credits
Registration of Research Code		
Sem 1 Year 1		MKAW1100
Sem 2 Year 1		MKAW1200
Sem 1 Year 2		MKAW2100
Sem 2 Year 2		MKAW2200
Sem 1 Year 3		MKAW3100
Sem 2 Year 3		MKAW3200
Sem 1 Year 4		MKAW4100
Sem 2 Year 4		MKAW4200
Students Presentation		
First Stage		2 nd Semester
Evaluation		
Progress Report		Every Semester
Duration of Study		
Full Time	:	3 - 8 semester