



Post Graduate Programs

With supervisions and teaching from experienced members of academic staff, the Faculty of Computer Science and Information Technology offers:

• **Mixed-Mode Programs**

- Master of Computer Science (Soft Computing)
- Master of Computer Science (Software Engineering)
- Master of Computer Science (Information Security)
- Master of Computer Science (Web Technology)

The minimum duration of studies is 1 year for a full-time course and 2 years for a part time course.

• **Research Programs**

Master of Information Technology

The minimum duration of studies is 1 year for a full-time course and 2 years for a part time course.

Doctor of Philosophy in Information Technology

The minimum duration of study is 3 years for a full-time course and 4 years for a part time course.

The academic progress of research programs will be evaluated every semester through progress reports. The degree will be examined through the presentation of a thesis and through a viva voce examination. Awards of Masters' and Ph.D's degree are subject to approval of the *Post Graduate Examination Committee*.

Post Graduate Programs

Master of Computer Science (Soft Computing)

YEAR	SEMESTER	CODE	COURSE	CREDIT
1	1	CIC 10103	Algorithm Design and Analysis	3
		CIC 10203	Research Methodology	3
		CIS 10103	Advanced Data Mining	3
		CIS 10203	Advanced Soft Computing	3
		CIS 10*03	** Elective 1	3
TOTAL				15
Inter-Semester		CIC 10303	Dissertation 1	3
		CIS 10*03	**Elective 2	3
TOTAL				6
	2	CIC 10319	Dissertation 2	19
TOTAL				19
OVERALL CREDIT TOTAL				40

** Choose any TWO (2) courses from Elective Courses:

CODE	COURSE	CREDIT
CIS 10303	Genetic Algorithm	3
CIS 10403	Neural Network	3
CIS 10503	Fuzzy Logic	3

		YEAR 1			
CODE	SEMESTER 1 COURSE	CREDIT	CODE	SEMESTER 2 COURSE	CREDIT
CIC 10103	Algorithm Design and Analysis	3	CIS 10203	Advanced Soft Computing	3
CIS 10103	Advanced Data Mining	3	CIC 10203	Research Methodology	3
			CI* 10*03	** Elective 1	3
TOTAL		6	TOTAL		9
		YEAR 2			
CODE	SEMESTER 1	CREDIT	CODE	SEMESTER 2	CREDIT
CI* 10*03	**Elective 2	3	CIC 10319	Dissertation 2	19
CIC 10303	Dissertation 1	3			
TOTAL		6	TOTAL		19
OVERALL CREDIT TOTAL					40

** Choose any TWO (2) courses from Elective Courses:

CODE	COURSE	CREDIT
CIS 10303	Genetic Algorithm	3
CIS 10403	Neural Network	3
CIS 10503	Fuzzy Logic	3

Master of Computer Science (Software Engineering)

YEAR	SEMESTER	CODE	COURSE	CREDIT
1	1	CIC 10103	Algorithm Design and Analysis	3
		CIC 10203	Research Methodology	3
		CIE 10103	Object-Oriented Software Development	3
		CIE 10203	Advanced Database System	3
		CIE 10*03	** Elective 1	3
			TOTAL	15
Inter-Semester		CIE 10*03	**Elective 2	3
		CIC 10322	Dissertation 1	3
			TOTAL	6
	2	CIC 10319	Dissertation 2	19
			TOTAL	19
OVERALL CREDIT TOTAL				40

** Choose any TWO (2) courses from Elective Courses:

CODE	COURSE	CREDIT
CIE 10303	Formal Methods	3
CIE 10403	Software Verification & Validation	3
CIE 10503	Software and System Security	3

		YEAR 1				
CODE	SEMESTER 1 COURSE	CREDIT	CODE	SEMESTER 2 COURSE	CREDIT	
CIC 10103	Algorithm Design and Analysis	3	CIE 10203	Advanced Database System	3	
CIE 10103	Object-Oriented Software Development	3	CIC 10203	Research Methodology	3	
			CIE 10*03	** Elective 1	3	
		TOTAL	6	TOTAL		9
		YEAR 2				
CODE	SEMESTER 1	CREDIT	CODE	SEMESTER 2	CREDIT	
CIE 10*03	Elective 2	3	CIC 10319	Dissertation 2	19	
CIC 10322	Dissertation	3				
		TOTAL	6	TOTAL		19
OVERALL CREDIT TOTAL				40		

** Choose any TWO (2) courses from Elective Courses:

CODE	COURSE	CREDIT
CIE 10303	Formal Methods	3
CIE 10403	Software Verification & Validation	3
CIE 10503	Software and System Security	3

Master of Computer Science (Web Technology)

YEAR	SEMESTER	CODE	COURSE	CREDIT	
1	1	CIC 10103	Algorithm Design and Analysis	3	
		CIC 10203	Research Methodology	3	
		CIW 10103	Semantic Web	3	
		CIW 10203	Web Services	3	
		CIW 10*03	** Elective 1	3	
		TOTAL		15	
Inter-Semester		CIC 10303	Dissertation 1	3	
		CIW 10*03	**Elective 2	3	
		TOTAL		6	
	2	CIC 10319	Dissertation 2	19	
				TOTAL	19
OVERALL CREDIT TOTAL				40	

** Choose any TWO (2) courses from Elective Courses:

CODE	COURSE	CREDIT
CIS 10303	Web Programming	3
CIS 10403	Ubiquitos Computing	3
CIS 10503	Information Retrieval	3

		YEAR 1			
CODE	SEMESTER 1 COURSE	CREDIT	CODE	SEMESTER 2 COURSE	CREDIT
CIC 10103	Algorithm Design and Analysis	3	CIW 10203	Web Services	3
CIW 10103	Semantic Web	3	CIC 10203	Research Methodology	3
			CIW 10*03	** Elective 1	3
		TOTAL	6	TOTAL	9
		YEAR 2			
CODE	SEMESTER 1 COURSE	CREDIT	CODE	SEMESTER 2 COURSE	CREDIT
CIW 10*03	**Elective 2	3	CIC 10319	Dissertation 2	19
CIC 10303	Dissertation 1	3			
		TOTAL	6	TOTAL	19
OVERALL CREDIT TOTAL				40	

** Choose any TWO (2) courses from Elective Courses:

CODE	COURSE	CREDIT
CIW 10303	Web Programming	3
CIW 10403	Ubiquitos Computing	3
CIW 10503	Information Retrieval	3

Master of Computer Science (Information Security)

YEAR	SEMESTER	CODE	COURSE	CREDIT
1	1	CIC 10103	Algorithm Design and Analysis	3
		CIC 10203	Research Methodology	3
		CII 10103	Advanced Computer and Information Security	3
		CII 10203	Information Confidentiality and Integrity Techniques	3
		CII 10*03	** Elective 1	3
TOTAL				15
Inter-Semester		CIC 10303	Dissertation 1	3
		CII 10*03	**Elective 2	3
TOTAL				6
2		CIC 10319	Dissertation 2	19
TOTAL				19
OVERALL CREDIT TOTAL				40

** Choose any TWO (2) courses from Elective Courses:

CODE	COURSE	CREDIT
CII 10303	Advanced Network Security	3
CII 10403	Digital Forensic	3
CII 10503	Database Security	3

		YEAR 1				
CODE	SEMESTER 1 COURSE	CREDIT	CODE	SEMESTER 2 COURSE	CREDIT	
CIC 10103	Algorithm Design and Analysis	3	CII 10203	Information Confidentiality and Integrity Techniques	3	
CII 10103	Advanced Computer and Information Security	3	CIC 10203	Research Methodology	3	
			CII 10*03	** Elective 1	3	
		TOTAL	6	TOTAL		9
		YEAR 2				
CODE	SEMESTER 1 COURSE	CREDIT	CODE	SEMESTER 2 COURSE	CREDIT	
CII 10*03	**Elective 2	3	CIC 10319	Dissertation 2	19	
CIC 10303	Dissertation 1	3				
		TOTAL	6	TOTAL		19
OVERALL CREDIT TOTAL				40		

** Choose any TWO (2) courses from Elective Courses:

CODE	COURSE	CREDIT
CII 10303	Advanced Network Security	3
CII 10403	Digital Forensic	3
CII 10503	Database Security	3



How to Get Application Forms

1. Download from <http://ps.uthm.edu.my/en/download.html>
2. Online application at <http://e1.uthm.edu.my/ps/permohonan/siswazahv3>
3. Counter Purchase at *Centre for Graduate Studies, UTHM (RM5.00 charged)*
3. Purchase by mail:
 - Please enclose:
 - *Postal/Money Order of RM5.00 payable to the "Vice-Chancellor UTHM"*
 - *A stamped (RM2.00) self-addressed envelope (28cm x 34cm) and mail to:*

Dean
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Universiti Tun Hussein Onn Malaysia
86400 Parit Raja, Batu Pahat
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