

# POSTGRADUATE PROGRAMME KIT



**FACULTY OF COMPUTER SCIENCE  
AND INFORMATION TECHNOLOGY,  
UNIVERSITY MALAYA  
[HTTP://WWW.FSKTM.UM.EDU.MY/](http://www.fsktm.um.edu.my/)**

**MASTER OF COMPUTER  
SCIENCE  
(APPLIED COMPUTING)  
(MIXED MODE)**



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# COURSE PLAN

## ACADEMIC SESSION 2023/2024

### INTAKE SEMESTER II 2023/2024

MASTER OF COMPUTER SCIENCE (APPLIED COMPUTING)		Credits	Semester II 2023/2024	Semester I 2024/2025	Semester II 2024/2025
<b>Core Courses</b>					
WOX7001	*Research Methodology	3	√		
WOA7001	Advanced Algorithms	3		√	
WOA7015	Advanced Machine Learning	3		√	
WOA7016	Cloud Computing	3	√		
WOA7017	Security Risk Analysis and Evaluation	3	√		
WOC7021	Dissertation	21		√**	√**
WOC7024** New code	Dissertation	21		√**	√**
<b>Elective Courses [Students are required to choose any two (2) courses from the list below]</b>					
WOA7018	Autonomous Robotics	3		√	
WOA7019	Augmented Reality	3	√		
WOC7014	Framework-Based Software Design and Development	3	√		
WOC7020	Advanced Internet of Things	3		√	
WQD7003	Data Analytics	3		√	

**\* Students are required to register Research Methodology course in their first semester**

**\*\* Students are only allowed to register for a Dissertation after completing six (6) credits of coursework.**

Note: The courses that will be offered every semester are subject to change, depending on the availability of staff and the number of students registering.

**MASTER OF SOFTWARE  
ENGINEERING  
(SOFTWARE  
TECHNOLOGY)  
(MIXED MODE)**



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# COURSE PLAN

## ACADEMIC SESSION 2023/2024

### INTAKE SEMESTER II 2023/2024

MASTER OF SOFTWARE ENGINEERING (SOFTWARE TECHNOLOGY)		Credits	Semester II 2023/2024	Semester I 2024/2025	Semester II 2024/2025
<b>Core Courses</b>					
<b>WOX7001</b>	Research Methodology	<b>3</b>	√		
<b>WOC7004</b>	Architecting Software Systems	<b>3</b>		√	
<b>WOC7014</b>	Framework Based Software Design and Development	<b>3</b>	√		
<b>WOC7015</b>	Software Verification and Validation	<b>3</b>		√	
<b>WOC7016</b>	Software Project Management	<b>3</b>	√		
<b>WOC7021**</b>	Dissertation	<b>21</b>		√ **	√ **
<b>WOC7024** New code</b>	Dissertation	<b>21</b>		√ **	√ **
<b>Elective Courses [Students are required to choose any 2 courses from the list below]</b>					
<b>WOA7015</b>	Advanced Machine Learning	<b>3</b>		√	
<b>WOA7017</b>	Security Risk Analysis and Evaluation	<b>3</b>	√		
<b>WOC7017</b>	Big Data Processing	<b>3</b>	√		
<b>WOC7018</b>	Requirements Engineering	<b>3</b>			
<b>WOC7019</b>	User Experience Design Studio	<b>3</b>	√		
<b>WOC7020</b>	Advanced Internet of Things	<b>3</b>		√	

**\* Student are required to register Research Methodology course in their first semester**

**\*\* Students are only allowed to register for Dissertation after completing six (6) credits of core course**

Note: The courses that will be offered every semester are subject to change, depending on the availability of staff and the number of students registering.

# **MASTER OF DATA SCIENCE (COURSEWORK)**



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# COURSE PLAN

## ACADEMIC SESSION 2023/2024

### INTAKE SEMESTER II 2023/2024

MASTER OF DATA SCIENCE		Credits	Semester II 2023/2024	Semester III 2023/2024	Semester I 2024/2025
<b>Core Courses</b>					
<b>WOX7001</b>	Research Methodology	3	√		√
<b>WQD7001</b>	Principles of Data Science	3	√		
<b>WQD7003</b>	Data Analytics	3	√		
<b>WQD7004</b>	Programming for Data Science	4	√		
<b>WQD7005</b>	Data Mining	4			√
<b>WQD7006</b>	Machine Learning for Data Science	4			√
<b>WQD7007</b>	Big Data Management	3			√
<b>WQD7023</b>	**Data Science Research Project	10		√	√
<b>Elective Courses [Students are required to choose any 2 courses from the list below]</b>					
<b>WQD7008</b>	Parallel and Distributed Computing	4			√
<b>WQD7009</b>	Big Data Applications & Analytics	4			√
<b>WQD7010</b>	Network and Security	4	√		
<b>WQD7011</b>	Numerical Optimization	4	√		

\*\*Students are only allowed to register for WQD7023 Data Science Research Project after completing at least three (3) core courses (including WOX7001)

Note: The courses that will be offered every semester are subject to change, depending on the availability of staff and the number of students registering.

# **MASTER OF COMPUTER SCIENCE (RESEARCH)**



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# COURSE PLAN

## ACADEMIC SESSION 2023/2024

MASTER OF COMPUTER SCIENCE		Credits
COURSES		
WOX7001	Research Methodology	3
WOX7002	Dissertation	1

# **DOCTOR OF PHILOSOPHY (RESEARCH)**



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# COURSE PLAN

## ACADEMIC SESSION 2023/2024

DOCTOR OF PHILOSOPHY		Credits
COURSES		
WVX8001	Advanced Research Methods In Computer Science And Information Technology	3
WVX8002	Thesis	1

# TIMETABLE FOR POSTGRADUATE SEMESTER II 2023/2024



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**TIMETABLE FOR POSTGRADUATE PROGRAMMES  
SEMESTER II, 2023/2024  
ACADEMIC SESSION**

Last Revised:23/1/2024  
12.51 pm

Program	Time	Monday		Tuesday		Wednesday		Thursday		Friday	
<b>PHD</b> (Doctor of Philosophy)	6.00pm - 9.00pm			WVX8001 (RA)	DK1						
<b>MCS</b> Master of Computer Science (Research only)	6.00pm - 9.00pm					WOX7001 (MB) (G3)	MM4				

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**TIMETABLE FOR POSTGRADUATE PROGRAMMES  
SEMESTER II, 2023/2024 ACADEMIC SESSION**

Last Revised:23/1/2024  
12.51 pm

Program	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday			
<b>MdatSc</b> Master of Data Science (Coursework)	8.30 am - 11.30 am						WOX7001 (RMN) (G2)	DK1	WQD7011 (LIM) (G2) + (RL)	MM3	
							WQD7005 (NMS) (G3) + (RL)	MM4			
							WQD7007 (TH) (G2)	MM3			
	11.30am - 2.30 pm							WQD7003 (KD) (G2)	MM3		
								WQD7006 (VIM) (G2)	MM4	WQD7010 (SRA) (G2) + (RL)	MM3
	3.00pm - 6.00pm							WQD7004 (OSY) (G2)	MM3	WQD7006 (RYZ) (G3) + (RL)	MM4
								WQD7005 (TH) (G2)	MM4		
								WQD7007 (SND) (G3) + (RL)	MM1		
	6.00pm - 9.00pm	WQD7001 (MAI) (G1)	DK2	WQD7003 (SSN) (G1)	MM3	WOX7001 (RMN) (G1) + (RL)	DK 1	WQD7004 (ATF) (G1)	MM3	WQD7010 (SRA) (G1)	MM3
		WQD7006 (RYZ) (G1)	MM4	WQD7007 (HWL) (G1)	MM4	WQD7001 (NRJ) (G2)	DK2	WQD7005 (NMS) (G1)	MM4	WQD7011 (LIM) (G1)	MM4

**Note:**

WOX7001 Research Methodology (Group 2) - Master by Coursework - MDatSc, M CyberSec & MAI

WOX7001 Research Methodology (Group 1 & RL) - Master by Coursework - MDatSc

WOX7001 Research Methodology (Group 3) - MCS (AC), MSE (ST) & MCS (Research)

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**TIMETABLE FOR POSTGRADUATE PROGRAMMES  
SEMESTER II, 2023/2024 ACADEMIC SESSION**

Last Revised:23/1/2024  
12.50 pm

Program	Time	Monday		Tuesday		Wednesday		Thursday		Friday	
MCS (AC) Master of Computer Science (Applied Computing) (Coursework & Dissertation)	6.00pm - 9.00pm	WOC7014 (NMD)	MM1	WOA7019 (NAA) (G2)	BK/ MM1	WOX7001 (MB) (G3)	MM4	WOA7017 (OMAR)	DK2	WOA7016 (HZM) (G2)	MM1
MSE (ST) Master of Software Engineering (Software Technology) (Coursework & Dissertation)	6.00pm - 9.00pm	WOC7014 (NMD)	MM1	WOC7017 (MB)	ML	WOX7001 (MB) (G3)	MM4	WOA7017 (OMAR)	DK2	WOC7016 (HSM)	BK
								WOC7019 (RJRY)	BK2		
<p><b>Note:</b>                      WOX7001 Research Methodology (Group 2) - Master by Coursework - MDatSc, M CyberSec &amp; MAI                      WOX7001 Research Methodology (Group 1 &amp; RL) - Master by Coursework - MDatSc                      WOX7001 Research Methodology (Group 3) - MCS (AC), MSE (ST) &amp; MCS (Research)</p>											

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NO	COURSE CODE	COURSE TITLE	CREDIT	LECTURER'S NAME	INT.	DEPT.
1	WQD7001 (GROUP 1)	PRINCIPLE OF DATA SCIENCE	3	ASSOC. PROF. DR. MAIZATUL AKMAR ISMAIL	MAI	IS
	WQD7001 (GROUP 2)			DR. NURUL BINTI JAPAR	NRJ	AI
2	WQD7003 (GROUP 1)	DATA ANALYTICS	3	DR. SAW SHIER NEE	SSN	AI
	WQD7003 (GROUP 2)			ASSOC. PROF. DR. KASTURI DEWI VARATHAN	KD	IS
3	WQD7004 (GROUP 1)	PROGRAMMING FOR DATA SCIENCE	4	ASSOC. PROF. DR. ANG TAN FONG	ATF	CST
	WQD7004 (GROUP 2)			DR. ONG SIM YING	OSY	SE
4	WQD7005 (GROUP 1)	DATA MINING	4	ASSOC. PROF. DR. NOR LIYANA MOHD SHUIB	NMS	IS
	WQD7005 (GROUP 2)			DR. TUTUT HERAWAN	TH	
	WQD7005 (GROUP 3)			ASSOC. PROF. DR. NOR LIYANA MOHD SHUIB	NMS	
	WQD7005 (RL)	DATA MINING	ASSOC. PROF. DR. NOR LIYANA MOHD SHUIB	NMS	IS	
5	WQD7006 (GROUP 1)	MACHINE LEARNING FOR DATA SCIENCE	4	DR. RIYAZ AHAMED	RYZ	IS
	WQD7006 (GROUP 2)			ASSOC. PROF. TS. DR VIMALA BALAKRISHNAN	VIM	IS
	WQD7006 (GROUP 3)			DR. RIYAZ AHAMED	RYZ	IS
	WQD7006 (RL)	MACHINE LEARNING FOR DATA SCIENCE	DR. RIYAZ AHAMED	RYZ	IS	
6	WQD7007 (GROUP 1)	BIG DATA MANAGEMENT	3	DR. HOO WAI LAM	HWL	IS
	WQD7007 (GROUP 2)			DR. TUTUT HERAWAN	TH	
	WQD7007 (GROUP 3)			TS. DR. MOHD SHAHRUL NIZAM MOHD DANURI	SND	
	WQD7007 (RL)	BIG DATA MANAGEMENT	TS. DR. MOHD SHAHRUL NIZAM MOHD DANURI	SND	IS	
7	WQD7010 (GROUP 1)	NETWORK AND SECURITY	4	DR. SAAIDAL RAZZALLI AZZUHRI	SRA	CST
	WQD7010 (GROUP 2)				DR. SAAIDAL RAZZALLI AZZUHRI	
	WQD7010 (RL)	NETWORK AND SECURITY		DR. SAAIDAL RAZZALLI AZZUHRI		SRA
8	WQD7011 (GROUP 1)	NUMERICAL OPTIMIZATION	4	DR. LIM CHEE KAU	LIM	AI
	WQD7011 (GROUP 2)				DR. LIM CHEE KAU	
	WQD7011 (RL)	NUMERICAL OPTIMIZATION		DR. LIM CHEE KAU		LIM
9	WQE7003	CRYPTOGRAPHY AND INFORMATION HIDING	3	DR. ONG SIM YING	OSY	SE
10	WQE7004	INFORMATION ASSURANCE	3	ASSOC. PROF. DR. AZAH ANIR NORMAN	AAN	IS
11	WQE7005	ADVANCE DIGITAL FORENSICS	3	PROF. TS. DR. AINUDDIN WAHID BIN ABDUL WAHAB	AWAW	MM
12	WOC7020	ADVANCED INTERNET OF THINGS	3	ASSOC. PROF. DR. MOHD YAMANI IDNA IDRIS	MYI	CST
13	WQE7009	EMERGING CYBER SECURITY TRENDS	4	ASSOC. PROF. DR. ROSLI SALLEH	RS	CST
14	WQE7010	CLOUD COMPUTING	4	DR. MOHAMAD HAZIM MD HANIF	HZM	SE
15	WQF7003	INTELLIGENT COMPUTATION	4	PROFESOR MADYA TS. DR AZNUL QALID MD SABRI	AQMS	AI
16	WQF7004	DATA ANALYTICS IN ARTIFICIAL INTELLIGENCE	3	DR. MUHAMMAD SHAHREEZA SAFIRUZ KASSIM	MSS	
17	WQF7005	DATA PRIVACY AND ARTIFICIAL INTELLIGENCE ETHICS	4	ASSOC. PROF. DR. NORISMA BINTI IDRIS	NI	
18	WOA7019	AUGMENTED REALITY	3	ASSOC. PROF. DR. NOR ANIZA ABDULLAH	NAA	CST
19	WQF7010	ROBOTICS AND AUTOMATION	3	DR. ZATI HAKIM AZIZUL HASAN	ZH	AI
20	WQF7011	COGNITIVE COMPUTING	3	HONORARY DATIN DR. SAMEEM ABDUL KAREEM	SAK	
21	WOA7016	CLOUD COMPUTING	3	DR. MOHAMAD HAZIM MD HANIF	HZM	SE
22	WOA7017	SECURITY RISK ANALYSIS AND EVALUATION	3	PROF. DR. OMAR ZAKARIA	OZ	PT
23	WOA7019	AUGMENTED REALITY	3	ASSOC. PROF. DR. NOR ANIZA ABDULLAH	NAA	CST
24	WOC7014	FRAMEWORK-BASED SOFTWARE DESIGN AND DEVELOPMENT	3	DR. NUR NASUHA MOHD DAUD	NMD	SE
25	WOC7016	SOFTWARE PROJECT MANAGEMENT	3	DR. HEMA SUBRAMANIAM	HSM	SE
26	WOC7017	BIG DATA PROCESSING	3	ASSOC. PROF. DR. MUMTAZ BEGUM PEER MUSTAFA	MBPM	SE
27	WOC7019	USER EXPERIENCE DESIGN STUDIO	3	DR. RAJA JAMILAH RAJA YUSOF	RJRY	SE
28	WVX8001 (PhD)	ADVANCED RESEARCH METHODS IN COMPUTER SCIENCE AND INFORMATION TECHNOLOGY	3	ASSOC. PROF. DR. RODINA AHMAD	RA	SE
29	WOX7001 (GROUP 1)	RESEARCH METHODOLOGY (MASTERS BY COURSEWORK) (MDataSc)	3	PROF. TS. DR RAFIDAH MD NOOR	RMN	CST
	WOX7001 (GROUP 2)	RESEARCH METHODOLOGY (MASTERS BY COURSEWORK) (MDataSc, MAJ.M CyberSec)			RMN	CST
	WOX7001 (GROUP 3)	RESEARCH METHODOLOGY (MASTER BY COURSEWORK AND DISSERTATION/ MASTER BY RESEARCH) (MCS/MCS (ACI)/MSE (ST))		ASSOC. PROF. DR. MUMTAZ BEGUM PEER MUSTAFA	MBPM	SE
	WOX7001 (RL)	RESEARCH METHODOLOGY (MASTERS BY COURSEWORK) (MDataSc)		PROF. TS. DR RAFIDAH MD NOOR	RMN	CST

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# IMPORTANT DATE AND NOTICE



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# MAYA PORTAL

**SEMESTER II  
2023/2024**

**REGISTRATION SCHEDULE  
(POSTGRADUATE)**

## Self Enrolment

Level of Study	Student Category	Start Date	End Date
Postgraduate	New Students (Coursework & Mixed Mode)	23.2.2024 (8:30am)	1.3.2024 (11:59 pm)
	New Students (Research)	23.2.2024 (8:30am)	26.7.2024 (11:59 pm)

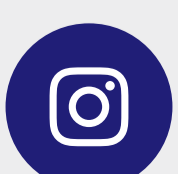
## Module Registration & Enrolment Status Activation

Mode of Study	Start Date	End Date
Current Students (Coursework, Mixed Mode & Research)	25.2.2024 (8:30 am)	8.3.2024 (11:59 pm)
New Students (Coursework & Mixed Mode)	27.2.2024 (8:30 am)	8.3.2024 (11:59 pm)
New Students (Research) <i>Module : Research Methodology &amp; Thesis/ Dissertation</i>	27.2.2024 (8:30 am)	15.3.2024 (11:59 pm)
New Students (Research) <i>Module : Thesis/Dissertation only</i>	27.2.2024 (8:30 am)	26.7.2024 (11:59 pm)
Submission of Progress Report <i>For students who have registered for the Dissertation or Thesis Module in Semester II, 2023/2024</i>	13.5.2024	12.7.2024

\* New updates

**Updated: 16 February 2024**

FOR MORE INFORMATION:



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