

Faculty of Computing
Fakulti Komputeran



Master by RESEARCH & PHD

ADVANTAGES OF OUR PROGRAMME



REAL WORLD PROBLEM INDUSTRIAL RELATED PROJECT 🗸



MQA ACCREDITED
INDUSTRIAL
ADVISORY PANEL



PASSIONATE, DEDICATED, MOTIVATED LECTURERS



ONLINE INTERACTION

ANY LOCATION AT MALAYSIA

FLEXIBLE CLASS SCHEDULE

ADMISSION REQUIREMENT

Master of Science

Recognized degree with CPA 3.00/4.00 and above or; Meet minimum numbers of working experience in related fields

Doctor of Philosophy

Recognized
Degree with CGPA >= 3.67/4.00 or;
Master Degree

- English Qualification

International Student

IELTS Band 6.0 or; TOEFL Paper Based = 800 points, TOEFL Internet Based- Test (IBT) = 80 TOEFL Computer Based-Test (CBT) = 173 Otherwise must attend Pre-sessional English Course (PES)

International students with Bachelor & Master degree from Malaysia Universities do not need to provide English Test.

The certification SHOULD NOT be more than 2 years.

DURATION OF STUDIES

Full Research Doctor of Philosophy

Master of Science

Full-Time

3 Years

2 Years

Part-Time

4 Years

3 Years



https://ips.umpsa.edu.my (Click Online Application & Available Throughout the Year)



Local Candidate - RM50 International Candidate - USD 30 Intake Periods : September & February

SCAN & JOIN NOW!





SUMMARY OF TUITION FEES FOR GRADUATE STUDENTS - RESEARCH

FIELD	PROGRAMME	METHOD	LOCAL STUDENT		INTERNATIONAL STUDENT
			Full-Time	Part-Time	Full-Time
Related Field	PhD	Conventional	RM14,600	RM13,350	RM33,575
		Remote Supervision	RM17,165	RM15,915	RM36,140
		Fast Track	RM17,165	-	RM36,140
	Master	Conventional	RM8,900	RM9,300	RM22,360
		Remote Supervision	RM10,610	RM11,010	RM24,070
Unrelated Field	PhD	Conventional	RM14,600	RM13,350	RM33,575
		Remote Supervision	RM17,405	RM16,155	RM36,380
		Fast Track	RM17,405	-	RM36,380
	Master	Conventional	RM8,900	RM9,300	RM22,360
		Remote Supervision	RM10,850	RM11,250	RM24,310

The above fees are only minimum fees per programme (Master on a full-time basis = 2 years; Master on a part-time basis = 3 years; Doctor of Philosophy on a full-time basis = 3 years; Doctor of Philosophy on a part-time basis = 4 years)

FACULTY OF COMPUTING RESEARCH GROUP



RESEARCH GROUP

"To provide expertise in analyzing, designing and implementing systems"

COMPUTER SYSTEM

Head of Research Group

DR. ZAFRIL RIZAL

Expertise : Cloud Computing, Grid Computing, Mobile Computing

ASSOC. PROF. DR. MOHAMED ARIFF

Expertise : Blockchain, Solution Architecture Artificial Intelligence

SYAHRUL ANUAR

Expertise : Networking, Wireless

Email: syahrulanuar@umpsa.edu.my

VIRTUAL SIMULATION & COMPUTING



"We strive to bridge the knowledge barrier within computer graphics, multimedia, artificial intelligence, machine learning, computational ilinguistics, games, modeling & simulation, geospatial intelligence, AR/VR, and immersive computing. Using AR/VR, computer games, and simulation can be bridged to make way for new knowledge and methods which can be implemented in both entertainment and solving a real-life situation"

Head of Research Group TS. DR. TUTY ASMAWATY

Expertise:

Expertise:
Games, VR/AR, Modelling
Simulation, Optimization

Email: tutv@umpsa.edu.mv

TS. DR. BARIAH

Expertise Games. Artificial Intelligence

Email: bariahyusob@umpsa.edu.my

SR. TS. DR. NGAHZAIFA Expertise : Expertise:
Geographical Information System,
Artificial Intelligence

Email:

zaifa@umpsa.edu.mv

TS. DR. SARADATUL

Expertise :

Games, AR/VR, Artificial Intelligence, VR Training

Email:

saradatulakmar@umpsa.edu.mv

Expertise: Games, AR/VR, Multimedia, Web and Mobile

Email: normaziah@umpsa.edu.my

ABBAS SALIMI Expertise:
Games, Artificial Intelligence/
Machine Learning, Natural Language
Processing

Email: abbas@umpsa.edu.my

Expertise : Multimedia, AR/VR

noraniza@umpsa.edu.my

SOFT COMPUTING & OPTIMIZATION



Head of Research Group

TS. DR. ZALILI

Expertise: Soft Computing & Optimization, Object Tracking, Image Analysis

zalili@umpsa.edu.mv

ASSOC. PROF. DR. MOHD NIZAM

Expertise: Intelligence Decision Support System for Real World Scheduling &

Optimization, Meta-heauristics Approaches (Trajectory-based & Population Based

mnizam@umpsa.edu.mv

ASSOC. PROF. TS. DR. ROHANI

Expertise:
Soft Computing & Optimization,
Software Engineering Search Based, Software De Requirement Engineering.

Email:

rohani@umpsa.edu.my

DR. JAMALUDIN

Expertise :

Soft Computing & Optimization, Software Project Mangement, Intelligent Process Automation, Requirement Engineering

Email: jamal@umpsa.edu.my

DR. MÜHAMMAD ARIF

Expertise:

Soft Computing & Optimization, Machice Learning, Mobile Application Development

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MOHD HAFIZ

Expertise

Data-mining, Case-based Reasoning, Artificial Intelligence

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VIRTUAL SIMULATION & COMPUTING

"We focus on developing applications and software improvement by utilizing cutting edge machine learning applications in solving various industrial and real-world problems. We employ and enhance machine learning algorithms to improve condition, performance and reliability in existing automation systems."

Head of Research Group

TS. DR. ZURIANI

Expertise : Machine Learning, Computational Intelligence, Time Series Prediction

TS. DR. ABDUL SAHLI

Expertise : Machine Learning, Artificial Neural Network, Computational Intelligence

TS. DR. MOHD ARFIAN

Expertise : Machine Learning, Soft Computing, Fuzzy Systems

TS. DR. AZLEE ZABIDI

Expertise : Machine Learning, Embedded System, System Identification

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TS. DR. SYAFIQ FAUZI

Expertise:
Machine Learning, Computational Intelligence, Embedded System

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Intelligence, Pattern Recognition

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TS. DR. JUNAIDA Expertise:
Machine Learning, Time Series
Prediction, Artificial Neural Network

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SOFTWARE ENGINEERING

ASSOC. PROF. TS. DR. SURYANTI

Expertise:
Machine Learning, Computational

Head of Research Group

TS. DR. ROZLINA

Expertise: Multi-criteria Decision Making, Effort Estimation in Software Development, Query Routing in Federated Database

DR. MUHAMAD IDAHAM

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PROF. TS. DR. KAMAL ZUHARI

Expertise:
Combinatorial T-Way Testing,
Search Based Software Engineering,
Computational Intelligence

TS. AZLINA

Expertise:
Analysis & Design The Business
Process & System, Organizing
Software Quality Activities, Empirical
Evaluation of tThe Effectiveness of
Software Requirements Prioritization
Methods

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MUHAMMAD ZULFAHMI TOH

Expertise: Expertise:
DevOps, Requirement Engineering,
Software Engineering Process

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TS. KU SAIMAH

Expertise:
Weighted Scoring Method (WSM),
Agile Maintenance, Software
Engineering

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TS. AZMA

Expertise: Requirement Specification for Safety Critical Systems, Hazard Analysis for safety Critical Systems, Requirement Engineering

Email: azma@umpsa.edu.my

ROSLINA

Expertise: Human Computer Interaction, Software Quality Assurance, Software Testing

ERESEARCH GROUP

"Developing new paradigms on software engineering for developing applications and software improvement by utilizing cutting edge intelligence applications in solving various industrial and environmental problems. We employ and enhance intelligence algorithms in the broad range to improve condition, performance, and reliability in the existing automation systems"

KNOWLEDGE **ENGINEERING &**

LINGUISTIC

COMPUTATIONAL

Expertise: Analysing Completeness of Requirements Specification based on Meta-requirements, User-requirements Validation, Crisis and Risk Management for Business Continuity Management in IT Perspective.

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KNOWLEDGE ENGINEERING & COMPUTATIONAL LINGUISTIC

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Head of Research Group

Expertise: Social Media Mining, Health Informatics, Deep Learning, Machine Learning

Email: hafieza@umpsa.edu.my

Expertise:
Text Processing, Classification,
Sentiment Analysis, Digital Security,
Information System, Decision
Support System

Email: nhuzaimi@umpsa.edu.my

Expertise : Natural Language Processing, Information Retrieval, Text

Processing

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TS. DR. SALWANA

Expertise:
Decision Support System, Simulation & Modeling, Biodiversity Informatics, Knowledge Representation & Machine Learning, Database

Email: salwanamohamad@umpsa.edu.my

Expertise: Text Analysis, Sentiment Analysis, Machine Learning, Social Media Mining

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Expertise: Requirement Engineering, Expert System, Information Retrieval, Database Management System

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TS. DR. RAHMAH

Expertise: Adaptive System, Expert System, Information Retrieval, Data Kining and Analytic, HCI

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DATA SCIENCE & SIMULATION MODELLING



"To bring a human-level understanding of knowledge into computational models and systems. This includes contributions to the natural language processing (NLP) filed as well as the implementation of various machine learning and expert systems. In KECL, researchers from Al and NLP backgrounds are working together towards improving methods and the control of the computational systems."

DATA SCIENCE& SIMULATION MODELLING

"Education, Research and Innovation on data analytics technology and building data scientist for providing state of art solutions"

Head of Research Group PROF. TS. DR

mazlina@umpsa.edu.my

Expertise:
Green Screen Technology
Operation, Simulation Modelling and
Analysis, Software Engineering

Email:

NOORLIN

Expertise: Articial Intelligence, Soft Computing, Data Analytics

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AHMAD FAKHRI

Expertise : Artificial Intelligence, Machine Learning, Pattern Recognition Email : afakhri@umpsa.edu.my

KOHBALAN

Expertise : Bioinformatics, Healthcare, Artificial Intelligence, Machince Learning Email : kohbalan@umpsa.edu.my

DATABASE TECHNOLOGY & INFORMATION SYSTEM



"Using systematic computational approaches, we envision outcome that are not limited to computer science area but involves interdisciplinary area of the transformational effects of information systems on individuals, groups, and organizations"

Head of Research Group

ASSOC. PROF. TS. DR. NORAZIAH

Expertise:

Expertise: Distributed Database System, Data Grid, Data Mining

Email: noraziah@umpsa.edu.mv TS. DR. NABILAH FILZAH

Data Mining & Optimization, Mobile Technology, Team Formation nabilahfilzah@umpsa.edu.mv

TS. DR. NURZETY AQTAR Expertise: Data Integration, Quality &

Email: agtar@umpsa.edu.mv

Management

TS. DR. MOHD IZHAM

Expertise:
Data Quality, Machine Learning

Email: izhamjaya@umpsa.edu.my ZARINA

Expertise:
Query Processing & Data Streaming

Email:

dzarina@umpsa.edu.my







"Mainly focuses on the area of digital, creative and innovative technology alms to create more engaging, inclusivity and personalized digital learning experiences. Examples include, but not limited to E-Learning, technology-based learning trends, learning analytics, artificial intelligence, lor, machine collaborative learning environment, augmented reality and virtual reality, gamification, and also multimedia technologies"

IMAGE& SIGNAL

Head of Research Group

TS. DR. SITI SUHAILA

Expertise:
Human-Computer Interaction,
Child-based Education Intervention,
Machine Learning

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TS. DR. NOOR AZIDA

Expertise: Educational Technology, E-Learning, Personalized Learnin

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ASSOC. PROF. TS DR. ADZHAR

Expertise : e-Learning, Information System

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TS. DR. NUR SHAMSIAH

Expertise : Information System, E-Learning, Educational Technology

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ASSOC. PROF. TS DR. AWANIS

TS. DR. DANAKORN

Expertise : Augmented Reality, Virtual Reality, Educational Technology

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TS. AZIMAN

Expertise : Curriculum Analytics, Web Analytic, Data Visualization

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TS. DR. YUSNITA

Expertise: Computational Linguistic.E-Learning. Information System, Computer and Communication Technology

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IMAGE SIGNAL PROCESSING

TS. DR. SYIFAK

Head of Research Group

Expertise: Image Watermarking, Data Forensics, Image Processing, Data Security

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TS. DR. ANIS FARIHAN

Expertise: Biometric System, Image Processing, Computer Vision, Pattern Recognition, Machine Learning

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WAN MUHAMMAD SYAHRIR

Expertise : Image Processing, Image Enhancement

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TS. DR. LIEW SIAU CHUIN

Expertise: Image Watermarking, Steganography, Image Processing, Signal Processing

ASSOC. PROF. TS. DR. FERDA ERNAWAN

Expertise: Image Watermarking, Image Processing, Data Security, Machine Learning

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TS. DR. SURAYA

Expertise: Image Processing, Pattern Recognition, Computer Vision, Embedded System, FPGA Design,

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COMPUTER NETWORK RESEARCH GROUP



"We aim to produce high-quality fundamental and applied research in a broad range of image processing, security-based digital image processing applications, Computer-Aided Diagnosis applications, and related areas"

"We are multidisciplinary team of researchers specializing in various aspects of computer networking. The group's expertise spans several areas, including wireless sensor networks, Fuzzy Logic, Computer Security, Software Defined Networking (SDN), the Internet of Things (IoT) and mobility management. By leveraging their collective expertise, the group alms to advance the field of computer network

TS. DR WAN ISNI SOFIAH

Expertise : Wireless Sensor Network, Clustering, Fuzzy Logic, IoT

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TS. DR. NOR SYAHIDATUL NADIAH

Expertise:
Communication Network and
Services, Wireless Sensor Network,
Communication Protocol

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AZAMUDDIN

Expertise : Wireless Sensor Network, Fuzzy Logic, IoT

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TS. DR. HOH WEI SIANG

Expertise : Fixed Network, Wireless Network, Routers and Technology

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ABDULLAH

Expertise : Computer Security, Network Security, Network Management

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CYBER SECURITY



CYBER SECURITY INTEREST GROUP

"Proactively use threat insights to build secure-by-design architecture that meet research needs and solve security challenges in fundamental and applied research"

Head of Research Group

TS. DR. AHMAD FIRDAUS

Expertise: Cyber Security, Al, Intrusion Detection System, Data Visualizations, Mobile Security

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TS. DR. MOHD FAIZAL

Expertise: Cyber security, Intrusion Detection System, AI, Risk Assessment

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DR. AMEERAH

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WAN NURULSAFAWATI

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DR. AL-FAHIM

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DR. ZAHIAN

Expertise : Intrusion Detection System, Malware Analysis, MANET

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DR. SYAHRIZAL

Expertise:
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Risk Assessment

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RAHIWAN

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