

FACILITIES FOR POSTGRADUATES



MATHEMATICS SUPPORT CENTRE



FOR MORE INFO

Phone: 09-4315049

Email Address:
psm@ump.edu.my

WEBSITE:
psm.ump.edu.my



SCAN ME



اونيورسيتي مليسيا فهغ السلطان عبد الله
UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH

FLUID FLOW MODELLING

**APPLIED &
INDUSTRIAL
MATHEMATICS AND
STATISTICS (AIMS)
RESEARCH CLUSTER**

**CENTRE FOR
MATHEMATICAL
SCIENCES,
UMPSA**

LIST OF EXPERTISE

ABOUT US

This research group accentuates on mathematical modelling of the flow and heat transfer of various types of fluid including Newtonian fluid, non-Newtonian fluid, nanofluid and hybrid nanofluid. We explore the numerical solutions and semi analytical solutions for the respective fluid models. As part of the methodology, we implement some numerical methods or finite-difference scheme such as shooting method, Keller-box method and bvp4c function.

PROGRAMS OFFERED:

Master by Research
Master by Mixed-Mode
PhD by Research

MATHEMATICAL MODELLING OF BOUNDARY LAYER FLOW AND HEAT TRANSFER



Prof. Dr. Mohd Zuki Salleh
zuki@ump.edu.my



Dr. Zulhibri Ismail @ Mustofa
zulhibri@ump.edu.my



Assoc. Prof. Dr. Abdul Rahman
Mohd Kasim
rahmanmohd@ump.edu.my



Dr. Rahimah Jusoh @ Awang
rahimahj@ump.edu.my



Dr. Norhafizah Md Sarif
norhafizah@ump.edu.my



Dr. Muhammad Khairul Anuar
Mohamed
mkhairulanuar@ump.edu.my



Miss Laila Amera Aziz
laila@ump.edu.my

POSTGRADUATE FACILITIES



Library



Computer laboratory



Open access workstation



Mathematics Support Centre (MSC)

CONTACT US



Centre for Mathematical Sciences,
Universiti Malaysia Pahang
Al-Sultan Abdullah,
Lebuh Persiaran Tun Khalil Yaakob
26300 Kuantan, Pahang



+609-431 5049



psm@ump.edu.my



<https://psm.ump.edu.my>



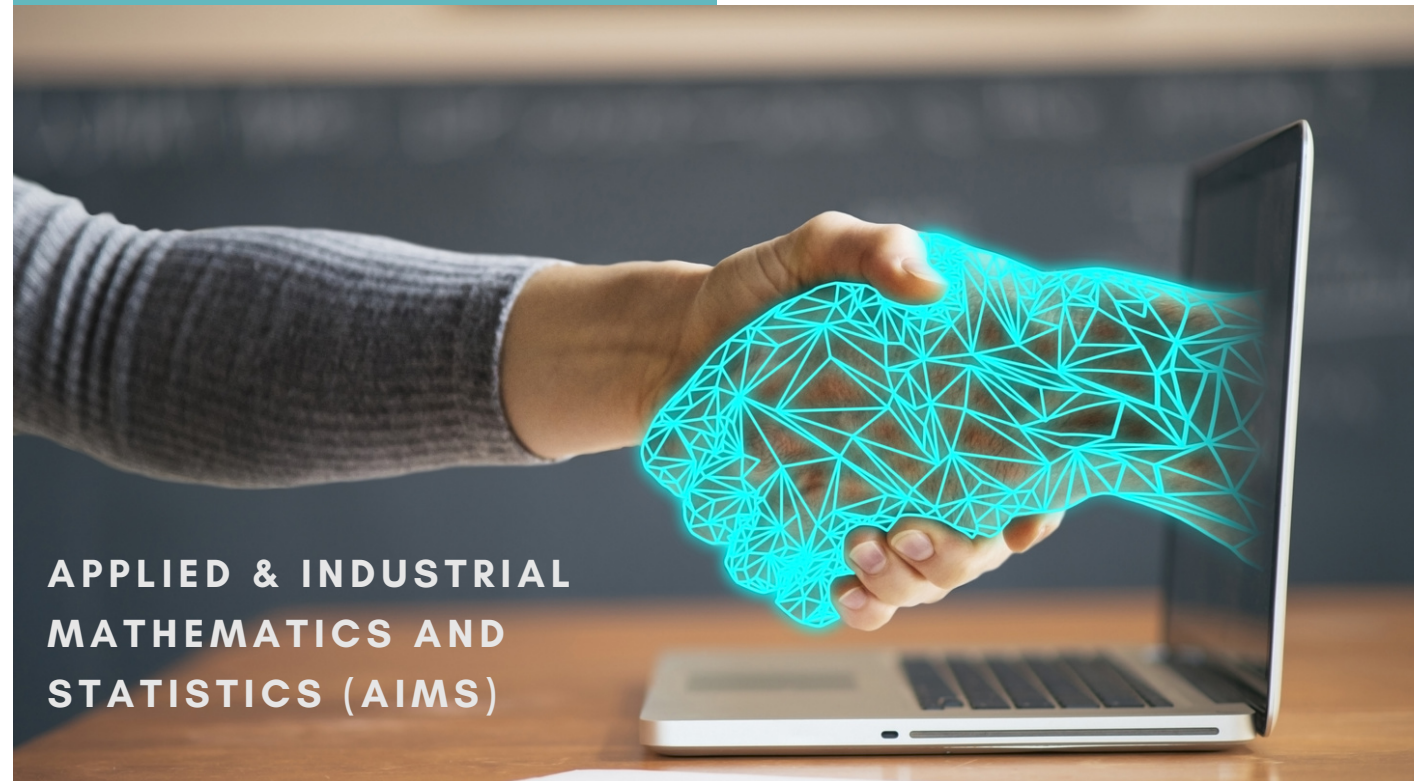
Pusat Sains Matematik UMPSA



اونيورسيتي مليسيا فهغ السلطان عبد الله
UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH

MODELLING & SIMULATION

CENTRE FOR
MATHEMATICAL SCIENCES



APPLIED & INDUSTRIAL
MATHEMATICS AND
STATISTICS (AIMS)

ABOUT US

INTRODUCTION

Our research group deals with modelling and simulation which is strongly application focused that arise in engineering and industrial problems. The research is conducted with a multidisciplinary approach bringing together mathematics formulation, numerical methods, theoretical knowledge, analysis, interpretation of data, simulation, and software such as MATLAB, Python, C/C++ and other languages.

PROGRAMMES

Master of Science (Industrial Mathematics) by Mixed Mode

Master of Science by Research

Doctor of Philosophy by Research

APPLY NOW



MEET OUR EXPERTS



Assoc. Prof Dr. Norhayati Rosli
norhayati@ump.edu.my

Deterministic & Stochastic Modelling, Numerical Analysis and Probability Theory (Applications in cancer and targeted therapy, fermentation, risk based inspection and epidemiology)



Ts. Dr. Norazaliza Mohd Jamil
norazaliza@ump.edu.my

Applied Mathematics, Mathematical Modelling and Simulation (Applications in renewable energy, biofuel, enzymatic hydrolysis, fermentation, solar and corrosion)



Dr. Nor Aida Zuraimi Md Noar
aidaz@ump.edu.my

Applied Mathematics, Mathematical Modelling and Numerical Analysis

"THE LAWS OF NATURE ARE WRITTEN IN THE LANGUAGE OF MATHEMATICS"
- GALILEO GALILEI



Dr. Nor Alisa Mohd Damanhuri
noralisa@ump.edu.my

Applied Mathematics, Continuum Mechanics, Solid Mechanics, Mathematical Modelling & Numerical Analysis



Dr. Nadirah Mohd Nasir
nadirah@ump.edu.my

Applied Mathematics, Numerical Methods, Direct Block Method, Boundary Value Problems for Ordinary Differential Equations (ODEs)



Dr. Tay Chai Jian
taycj@ump.edu.my

Applied Mathematics, Mathematical Modelling and Simulation

Facilities for Postgraduate



Mathematics Support Centre

Mathematics Support Centre (MSC) provides Mathematics and Statistics support. Our services are available to every UMP student. The MSC is a free support for students in addition to lectures and tutorials. MSC are located at both UMP campus, Pekan and Gambang.



اونيورسيتي مليسيا فهغ السلطان عبد الله
UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH


Statistics & Data Analytics

CONTACT US

 +609-4315049

 psmeump.edu.my

 psm.ump.edu.my

 Centre for Mathematical Sciences,
Universiti Malaysia Pahang Al-Sultan Abdullah,
Persiaran Tun Khalil Yaakob,
26300 Gambang, Pahang

APPLIED & INDUSTRIAL MATHEMATICS AND STATISTICS (AIMS) RESEARCH CLUSTER

CENTRE FOR MATHEMATICAL SCIENCES, UMP

INTRODUCTION

Statistics & Data Analytics cluster is focused predominantly on data-based research, consultancy and training including data analytics, statistical analysis, modelling and simulation in science, technology, engineering, management, business as well as applications in various fields of industries. Members of this cluster have expertise in the area of environmental modelling, structural equation modelling, data mining, computational intelligence, fuzzy set theory, forensic ballistics, gauge network system, bass diffusion modelling, nonparametric predictive inference, circular statistics, multivariate analysis and time series forecasting.

PROGRAMS OFFERED

Master by Mixed Mode
Master by Research
PhD by Research

TRAINING & CONSULTATION

Microsoft Excel: Beginner and Intermediate
Microsoft Excel: From Data to insights
SPSS
R & RStudio
Machine Learning
Data Mining

LIST OF EXPERTISE



PROF. Ts. DR. MOHD RASHID AB HAMID
Applications of Statistics in Management, Medical, Education, Social Sciences
Expert in SPSS, AMOS, SmartPLS
rashid@ump.edu.my



TS. DR. AZLYNA SENAWI
Data Mining, Evolutionary Computing
Expert in Matlab, C Programming, C++ Programming
azlyna@ump.edu.my



DR. KU MUHAMMAD NA'IM KU KHALIF
Fuzzy Mathematics, Fuzzy Decision Making, Data Mining, Machine Learning
Expert in Python, KNIME Analytics Platform, WEKA, IBM SPSS Modeler, Minitab
kunaim@ump.edu.my



DR. NORATIKAH ABU
Automotive Analysis, Tourism Analysis, Time Series, Operational Research, Automotive, Bass Diffusion Model
Expert in Minitab, Microsoft Excel
atikahabu@ump.edu.my



DR. SITI ROSLINDAR YAZIZ
Applied Statistics, Time Series Analysis & Forecasting, Highly Volatile Univariate Data, Gold Price Forecasting, Crude Oil Forecasting
Expert in R, EViews, Microsoft Excel
roslindar@ump.edu.my



DR. WAN NUR SYAHIDAH WAN YUSOFF
Financial Analysis, Manufacturing Analysis, Multivariate Analysis, Diagnostics Accuracy, Survival Analysis
Expert in Microsoft Excel, Matlab
wnsyahidah@ump.edu.my



DR. NOR HAFIZAH MOSLIM
Circular Statistics, Missing Values, Wind Direction
Expert in Microsoft Excel, R, S-Plus
fizahm@ump.edu.my



ASSOCIATE PROFESSOR DR. ROSLINA ZAKARIA
Statistical Modelling (Rainfall, Time Series), Data Science & Analytics
Expert in R, Microsoft Excel
roslinazairimah@ump.edu.my



DR. CHUAN ZUN LIANG
Statistical Modelling, Risk Based Inspection Analysis, Social Science Studies
Expert in Microsoft Excel, R
chuanzunliang@ump.edu.my



DR. MOHD KHAIRUL BAZLI MOHD AZIZ
Rainfall Modelling, GIS, Applied Statistics, Stochastic Modelling
Expert in GIS, Microsoft Excel
khairulbazli@ump.edu.my



DR. NOR YANTI MUHAMMAD
Statistics, Statistical Modelling and Simulation, Nonparametric Predictive Inference, Diagnostics and Survival Analysis, Risk Based Inspection Analysis
Expert in R, IBM SPSS Modeler, Minitab, Microsoft Excel, Matlab
noryanti@ump.edu.my



DR. NOR AZUANA BINTI RAMLI
Applied Statistics, Machine Learning, Predictive Analytics, Predictive Modeling Application in Energy Management and Energy Efficiency
Expert in Microsoft Excel, R, Minitab, SPSS and Matlab
azuana@ump.edu.my



DR. SITI ZANARIAH SATARI
Applied Statistics, Data Analytics, Circular Statistics, Multiple Outliers Detection, Clustering, Regression, Error in Variables Model, and Statistical Applications in Education, Management, Environmental, Biological and Medical Studies
Expert in Microsoft Excel, Splus, Tableau
zanariah@ump.edu.my

POSTGRADUATE FACILITIES



Library



Computer laboratory



Open access workstation



Mathematics Support Centre (MSC)

We provide high-quality education, multidisciplinary research and services in mathematical sciences knowledge to maximize human potential for societal good.

CONTACT US



+609-4315049



psm@ump.edu.my



psm.ump.edu.my



Centre for Mathematical Sciences,
Universiti Malaysia Pahang Al-Sultan Abdullah,
Persiaran Tun Khalil Yaakob,
26300 Gambang, Pahang



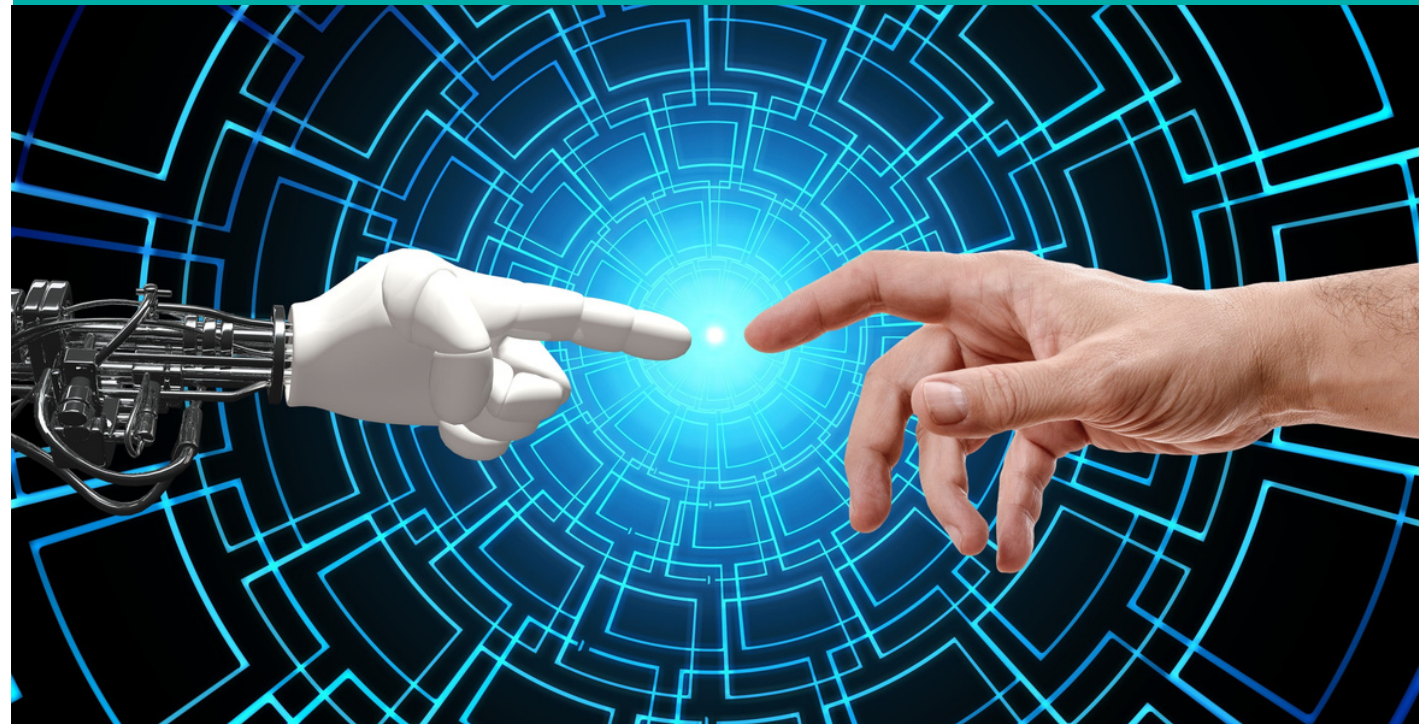
اونيورسيتي مليسيا فهغ السلطان عبد الله
UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH

CENTRE FOR MATHEMATICAL SCIENCES

APPLIED & INDUSTRIAL MATHEMATICS
AND STATISTICS (AIMs)

INTELLIGENT COMPUTING & OPTIMIZATION

WHERE INNOVATION PREVAILS



OUR EXPERTS



اونيورسيتي مليسيا فهغ السلطان عبد الله
**UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH**

ABOUT US

INTRODUCTION

Our research group focus on optimization, decision making, heuristic, metaheuristic, goal programming, and intelligent computing to solve any related industrial and engineering problems. Such problems include budget allocation, transportation, design network, network routing, vehicle routing, selection problem, green manufacturing management, sustainable indicator, DNA splicing and location-allocation.

PROGRAMS

- Master of Science (Industrial Mathematics) by Mixed Mode
- Master of Science by Research
- Doctor of Philosophy by Research

CONSULTATION

- C for Beginners
- Basic C++ for Science & Engineering
- Optimization using TORA

We strive to become
the centre of reference
for industries in Mathematics



PROFESOR MADYA DR. MOHD SHAM BIN MOHAMAD
Expertise: Discrete Mathematics, The Nonabelian Tensor Products, Probability Group Theory
Email: mohdsham@ump.edu.my



PROFESOR MADYA DR. YUHANI BINTI YUSOF
Expertise: Graph Theory and its Applications, Formal Language Theory and its Application in DNA Splicing System
Email: yuhani@ump.edu.my



DR. NOR IZZATI BINTI JAINI
Expertise: Applied Calculus, Heuristic, Optimization, Operational Research, Multi-Criteria Decision Making
Email: ati@ump.edu.my



DR. ADAM SHARIFF BIN ADLI AMINUDDIN
Expertise: Multi-Criteria Decision Making, Computational Intelligence, Performance Measurement, Sustainability and Environmental Applications
Email: adamshariff@ump.edu.my



DR. MUHAMMAD AZRIN BIN AHMAD
Expertise: e-Learning, Formal Language Theory, Automata Theory, DNA Splicing System
Email: azrin@ump.edu.my



DR. NAJIHAH BINTI MOHAMED
Expertise: Curves and Surfaces Reconstruction, Metaheuristic Method
Email: najihah@ump.edu.my



DR. NORAZIAH BINTI ADZHAR
Expertise: Graph Theoretical Applications, Routing Problem, Optimal Path Planning, Heuristics Method
Email: norazahadzhare@ump.edu.my



DR ROZIEANA BINTI KHAIRUDDIN
Expertise: Redesigning location-allocation network, Metaheuristic
Email: rozieana@ump.edu.my



DR. SAHIMEL AZWAL BIN SULAIMAN
Expertise: Group Theory (Cyclic Group), Graph Theory (Compatible Action Graph), RSA Digital Signature and Rainfall Modelling
Email: sahimel@ump.edu.my



DR FARAHANIM BINTI MISNI
Expertise: Job Shop Scheduling, Metaheuristic, Supply Chain, Vehicle Routing.
Email: farahanime@ump.edu.my



MRS. EZZRINDA BINTI MOHD ZAIHIDEE
Expertise: Image Processing and Applied Mathematics
Email: ezrinda@ump.edu.my



DR AMIRUL AIZAD BIN AHMAD FUAD
Expertise: Semigroup theory, Automata, EEG Signal Analysis
Email: amirulaizad@ump.edu.my