MINISTRY OF EDUCATION MALAYSIA

FACULTY OF COMPUTER SCIENCE AND MATHEMATICS

UMT

MATHEMATICAL MODELLING AND OPTIMIZATION (MMO)

ASSOC. PROF. TS. DR. NUR AIDYA HANUM BINTI AIZAM

ASSOCIATE PROFESSOR

My research focuses on Operational Research, applying analytical techniques to solve real-world problems. It involves thorough analysis to optimize decisions, making the most of available resources. I specialize in scheduling, developing mathematical models to create high-quality timetables that maximize user satisfaction. My work on university timetabling began during my Master's and has expanded over a decade, with ongoing improvements for broader applicability. I also explore Operational Research in areas like aquaculture, agriculture, and maritime, optimizing solutions like feed formulation and fertilizer composition, while welcoming interdisciplinary collaborations for project expansion.

RESEARCHER PROFILE

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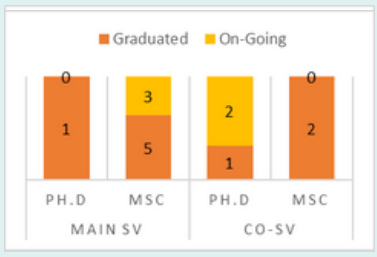
EDUCATION

- PhD in Mathematics and Statistics, Curtin Universtiy, Australia
- MSc in Management Mathematics, Universiti Kebangsaan Malaysia (UKM)
- BSc in Computational Mathematics, Kolej Universiti Sains dan Teknologi Malaysia (KUSTEM)

AREAS OF EXPERTISE

- Operations Research
- Optimisation

SUPERVISION



COLLABORATORS

AQUA 77

GOURAMI FLYING FISH

JASAMERIN

SELECTED RESEARCH PROJECTS

- Innovation, Commercialization & Entrepreneurship (ICE) from Pusat Inovasi dan Pengkomersialan UMT, OptiFeedR . (2024 – 2026). RM30,000
- Talent and Publication Enhancement from Universiti Malaysia Terengganu. Simulating Universiti Malaysia Terengganu Examination Timetabling in Investigating Continuous Issues for Improvement. (2023-2025). RM20,000
- Fundamental Research Grant Scheme (FRGS), Malaysian Ministry of Higher Education. A FEED MIX PROBLEM IN ORNAMENTAL FISH DIET FORMULATION USING MATHEMATICAL PROGRAMMING. (2018, completed) RM87180.

SELECTED PUBLICATIONS

- Mohamed, R., Mahali, S.M., Izzati, N.I., Aloev, R.D., **Aizam, N.A.H,** "Pre-Numerical Tests for a New Conjugate Gradient Method", Journal of Advanced Research in Applied Sciences and Engineering Technology, 2024, 39(1), pp. 15-25.
- Ibrahim, R.A, **Aizam, N.A.H.**, Liew, H.J., Din, N.S., Mubarak, A, "Sustainable aquafeed development: Incorporating select fruit wastes into Zebrafish diets using mathematical model-based approach", Saudi Journal of Biological Sciences, 2023, 30(11),103834.
- Mohd Zaulir, Z., Aziz, N.L.A., **Aizam, N.A.H.**, "A General Mathematical Model for University Courses Timetabling: Implementation to a Public University in Malaysia, Malaysian Journal of Fundamental and Applied Sciences, 2022, 18(1), pp. 82–94.
- **Aizam, N.A.H.**, Ismail, Z.F., Yen, C.L.S., "Mathematical Model for Scheduling Problems: A Compatibility Test on University Course Timetabling Problem", Lecture Notes in Electrical Engineering, 2022, 835, pp. 111–123.

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