

ASSOC. PROF. DR. AUNI ASLAH MAT DAUD

ASSOCIATE PROFESSOR

My research interests are in applied mathematics and chaos theory, particularly mathematical modeling and analysis of nonlinear dynamical systems using differential equations. For further details, refer my personal website: auniaslah.wordpress.com



RESEARCHER PROFILE

Scopus[®] 57189239222

ORCID 0000-0001-5502-0963

Google AUNI ASLAH MAT DAUD

EDUCATION



- PhD in Mathematics, University of Western Australia
- BSc. in Mathematics, Universiti Teknologi Malaysia

AREAS OF EXPERTISE

- Mathematical Modeling,
- Applied Dynamical Systems and Chaos,
- Mathematical Epidemiology,
- Islam & Mathematics.

SUPERVISION



COLLABORATORS



CONTACT

+6019-9791884

auni_aslah@umt.edu.my

fsm.umt.edu.my



SELECTED RESEARCH PROJECTS

- ✓ Fundamental Research Grant Scheme (FRGS) from Ministry of Higher Education Malaysia. Generalized mathematical modeling and stability analysis of population dynamics for social problems and non-infectious diseases. (2023 - 2026). RM113,000.
- ✓ Fundamental Research Grant Scheme (FRGS) from Ministry of Higher Education Malaysia. Mathematical Modeling and Analysis of Population Dynamics for Non-Communicable Diseases by Delay Differential Equations. (2019 - 2022). RM94,500.
- ✓ Research Acculturation Grant Scheme (RAGS) from Ministry of Higher Education Malaysia. The Development of New
- ✓ Mathematical Models for Selected Pregnancy-related Disorders using Ordinary Differential Equations and its Stability Analysis (2014 - 2017). RM50,800.

SELECTED PUBLICATIONS

- ✓ Tan Kok Ping & Auni Aslah Mat Daud, 2023. Modelling and Qualitative Analysis of an Illicit Drugs Model with Saturated Incidence Rate and Relapse, *Journal of Mathematics and Computer Science*, 29(4): 373-392 (SCOPUS, Emerging Sources Citation Index Web of Science)
- ✓ Auni Aslah Mat Daud, 2022. Five common misconceptions regarding Flattening-the-Curve of COVID-19, *History and Philosophy of the Life Sciences*, 44(3): 41. Impact factor: 1268 (Q1)
- ✓ Hanis Nasir & Auni Aslah Mat Daud, 2021. Population models of diabetes mellitus by ordinary differential equations: a review, *Mathematical Population Studies*, 29(3): 95-127. Impact Factor: 0.72 (Q4)
- ✓ Auni Aslah Mat Daud, 2021. Comment on "Poorly known aspects of flattening the curve of COVID-19", *Technological Forecasting & Social Change*, 167: 120674. Impact Factor: 5.846 (Q1)
- ✓ Auni Aslah Mat Daud, Cher Qing Toh & Salilah Saidun, 2021. Mathematical modeling and analysis of anemia during pregnancy and postpartum, *Theory in Biosciences*, 140(1): 87-95. Impact Factor: 0.676 (Q3)