**Nurul Akmal Mohamed (Ph.D)**

**Address:** Mathematics Department, Universiti Pendidikan Sultan Idris, Sultan Azlan

Shah Campus, 35900, Proton City, Tanjung Malim, Perak, Malaysia.

**Phone:** +601129241183

**Email:** akma[l.mohamed@fsmt.upsi.edu.my](mailto:mohamed@fsmt.upsi.edu.my)/ akmalmohdy@yahoo.com



**1 PERSONAL INFORMATION**

Name: Nurul Akmal Mohamed Present Position: Senior Lecturer DS51

Address: Mathematics Department, Universiti Pendidikan Sultan Idris,

|  |  |
| --- | --- |
|  | Sultan Azlan Shah Campus, 35900, Proton City, Tanjung Malim, Perak, Malaysia. |
| Admin Post | Graduate Employability (GE) Coordinator, Pusat Pembangunan Keusahawanan dan Kebolehpasaran Graduan (EDGE) 2022.  Acting Deputy Director Pusat Pembangunan Keusahawanan dan Kebolehpasaran Graduan (EDGE) 1 August 2022 – 30 Sept 2022. |
| Website | <https://akmalmohdy.wixsite.com/nurulakmal> |
| Phone number: | +601129241183 |
|  |  |
| Email | akmal[.mohamed@fsmt.upsi.edu.my](mailto:mohamed@fsmt.upsi.edu.my) / akmalmohdy@yahoo.com |
| Google Scholar | <https://scholar.google.com/citations?user=kz2ck3AAAAAJ&hl=en>  The score for my google h-index is 5 and i10-index is 2 with 94 citations by the researchers. |
| Scopus Link: | https:/[/www.scopus.com/authid/detail.uri](http://www.scopus.com/authid/detail.uri)?authorId=55295829600   * 33 documents up to August 2022 in Google scholar database. * 94 citations, h Index=5. * 20 documents up to August 2022 in Scopus database.   + - 32 citations, h Index=3. |
| My articles were cited by researchers from many countries like the United Kingdom, Pakistan, Dubai, Iraq, Yemen, Saudi Arabia, Bangladesh, China, Turkey, Indonesia, Pakistan, Georgia and Malaysia. | |
| My Youtube channels which mostly cover T&L:  <https://www.youtube.com/channel/UCnXte1fwpS5qUsD7XgUjG9w>.  (13,986 views)  <https://www.youtube.com/channel/UCK4bTwGVEco-sbGKS7dNClw/videos>  (667 views)  I have gathered about 13,986 views of my Youtube videos so far.  My YouTube channel has competed at the Anugerah Akademia UPSI Academic  Awards 2021 and the Anugerah Khas YB Menteri Pengajian Tinggi –AKRI (Immersive learning experience category). | |
| Skills: | Fortran, C++, Mathematica, Matlab, Maple, C, Latex. |

IC No : 830513-03-5018

**2. ACADEMIC QUALIFICATION**

2008-2013

Brunel University West London

UB8 3AS

Uxbridge

London

Ph.D (Mathematics)

2005-2007

University of Technology Malaysia,   
Skudai Campus, 81310 Skudai, Johor.   
Master of Science (Mathematics) - Research  
  
2001 to 2005  
University of Technology Malaysia,   
Skudai Campus, 81310 Skudai, Johor.   
Bachelor of Science (Mathematics)   
# CGPA 3.74- First Class honor degree

# Selected as the best presenter in the Symposium of Undergraduate’s Writing Project 2005, Faculty of Science, UTM.

# Awarded Academic’s Award in Majlis Konvokesyen Universiti Teknologi Malaysia ke -35.

# Awarded Dean’s Awards for 6 semesters during the undergraduate’s studies.

1996 to 2000   
Tunku Kurshiah College,   
Jalan Tunku Kurshiah,   
70400 Seremban, Negeri Sembilan, Malaysia.  
Passed SPM with 8 A’s, 1 B.  
Passed PMR with 8 A’s

1990-1995

Sekolah Kebangsaan Chetok,

Chetok,17060

Pasir Mas, Kelantan.

Passed UPSR with 4 A’s

SUMMARY OF FIELD OF STUDIES

**PhD Research**

Field:

Partial Differential Equations

Title of thesis:

Numerical solution and spectrum of Boundary Domain Integral Equation for PDE with variable coefficient.

Supervisor:

Professor Dr. Sergey Mikhailov

**MASTER OF SCIENCE (MATHEMATICS)-Research**

Field:

Applied and Computational Complex Analysis.

Title of Thesis:

An Integral Equation Method for Conformal Mapping of Doubly Connected Regions via the Kerzman-Stein and the Neumann Kernels.

Supervisor:

Professor Dr. Ali Hassan Mohamed Murid

**BACHELOR OF SCIENCE (MATHEMATICS):**  
  
Mathematics:   
Basic of Mathematics   
Mechanic   
Calculus I & II   
Statistics I & II   
Linear Algebra  
Differential Equations I & II   
Numerical Analysis

Real Analysis

Modern Algebra  
Interceding Theories of Probability   
Vector Calculus   
Complex Analysis

Fluid Mechanics

Nonlinear Dynamical System (Chaos)

Calculus of Variation

Partial Differential Equation

Topology

Functional Analysis

Mathematical Statistics

Non-Euclidean Geometry

Differential Geometry

Physics:

Basic of Physics I & II

Thermal Physics and Statistics

Optical Physics

Modern Physics

Quantum Mechanics   
   
Computer:  
Computer Methodology

Basic Language   
Computer Programming (C Language)

Research:

Information searching

Historical of Nobel Laureates’

Research Methodology

Undergraduate’s Writing Project

Others:

Management Principle

Creative Thinking

Photography

Creative Personality

**3 TEACHING (2013-2021)**

**Master**

Kalkulus Pembezaan dan Pengamiran, SMN60104

Differential and Integral Calculus, SMN6014

**Degree**

Beginning Calculus, SMN3013

Partial Differential Equations, SMN3083

Ordinary Differential Equations, SMN3043

Kalkulus I, SMN3093

Partial Differential Equations, SMN3083

Numerical Solutions of Linear Algebra, SMQ3093

Advanced Calculus, SMN3023

Complex Variables, SMN3073

Mathematics, SMU3013

Discrete Mathematics, SMA3023

Real Analysis

**Diploma**

Elementary Mathematics, SMU1034

LEARNING EVALUATION REPORT FOR THE LATEST SEMESTERS

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Semesters | M182 | A182 | A191 | A192 | A201 | A211 | A212 |
| Overall performance | 92.67% | 93.39%, 99.65% | 93.37%,  87.86 %,  88.12 %,  90.29 % | 93.37 %, 89.04%, 87.21%,  84.99 % | 89.15%,  92.05 %,  92.59 %,  96.57 %  100 % (Final year project) | 95.93%  94.81  95.59%  90.89 | 93.77 %  96.28 %  95.51 % |

**4 RESEARCH AND GRANT**

**Main Researcher**

|  |  |  |
| --- | --- | --- |
| 1 | Title: | Numerical solutions and spectrum of BDIDE for Dirichlet BVPs with variable coefficient. |
|  | Date of Research: | 01-12-2014 to 01-06-2017 |
|  | Sponsor: | Research Development Grant Scheme (RAGS), MOHE |
|  | Amount: | **RM70,100** |

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| --- | --- | --- |
| 2 | Title: | Evaluation of Mathematical Model of Traffic Flowing the Merging Area on Highway Operation |
|  | Date of Research: | 16-08-2018 to 16-08-2019 |
|  | Sponsor: | Geran Penyelidikan Universiti, Universiti Pendidikan Sultan Idris |
|  | Amount: | **RM20,000** |

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| --- | --- | --- |
| 3 | Title: | Developing numerical codes for Localized Boundary-Domain Integral Equations and its spectrum |
|  | Date of Research: | 01-01-2019 to 30-09-2021 |
|  | Sponsor: | Fundamental Research Grant Scheme (FRGS), MOHE |
|  | Amount: | **RM52,000** |

**Co-researcher**

|  |  |
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| 4 | Title: | The Development of Linear Programming STEM-based Module for Undergraduate University Students. |
|  | Date of Research: | 1/12/2022-30/11/2024. |
|  | Sponsor: | |  | | --- | | Geran Penyelidikan Universiti (GPU) 2022 | |
|  | Amount: | **RM9,370.00** |

|  |  |  |
| --- | --- | --- |
| 5 | Title: | Fractional Runge-Kutta methods in solving fractional differential equations |
|  | Date of Research: | 12-2021 to 12-2023 |
|  | Sponsor: | |  | | --- | | Geran Penyelidikan Universiti Fundamental (GPUF) 2021 | |
|  | Amount: | **RM21,600** |

|  |  |  |
| --- | --- | --- |
| 6 | Title: | Development of A Solver Symex Using Using Variable Stepsize for Symmetrization With Extrapolation In Solving Stiff Problems |
|  | Date of Research: | 02-01-2013 to 02-01-2015 |
|  | Sponsor: | Research Development Grant Scheme (RAGS), MOHE |
|  | Amount: | **RM41,600** |

|  |  |  |
| --- | --- | --- |
| 7 | Title: | Development of Heuristics and Set Covering Algorithms for Solving the Split Delivery Vehicle Routing Problem |
|  | Date of Research: | 01-10-2012 to 01-10-2013 |
|  | Sponsor: | Geran Penyelidikan Universiti, Universiti Pendidikan Sultan Idris |
|  | Amount: | **RM8,550** |

|  |  |  |
| --- | --- | --- |
| 8 | Title: | Pembangunan Modul Pengajaran Berasaskan Bahan Sumber STEM (BSTEM) Bagi Topik Kebarangkalian Dan Statistik KSSM Tingkatan Dua |
|  | Date of Research: | 01-07-2018 to 01-072019 |
|  | Sponsor: | Geran Penyelidikan Universiti, Universiti Pendidikan Sultan Idris |
|  | Amount: | **RM5,000** |

|  |  |  |
| --- | --- | --- |
| 9 | Title: | Criteria for Best Student Selection at UPSI Based on Analytical Hierarchy Process |
|  | Date of Research: | 16-08-2018 to 16-08-2019 |
|  | Sponsor: | Geran Penyelidikan Universiti, Universiti Pendidikan Sultan Idris |
|  | Amount: | **RM8,700** |

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| --- | --- | --- |
| 10 | Title: | Development of Hybrid Algorithm of Residual Bootstrap Artificial Neural Network Based on Sukuk Volatility Forecast Model |
|  | Date of Research: | 01-07-2018 to 01-07-2019 |
|  | Sponsor: | Geran Penyelidikan Universiti, Universiti Pendidikan Sultan Idris |
|  | Amount: | **RM5,000** |

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| --- | --- | --- |
| 11 | Title: | A stability analysis for radiation effects on Marangoni convection boundary layer over a permeable surface |
|  | Date of Research: | 01-07-2018 to 01-07-2019 |
|  | Sponsor: | Geran Penyelidikan Universiti, Universiti Pendidikan Sultan Idris |
|  | Amount: | **RM5,000** |

**5 SUPERVISION**

**Master of Science (Mathematics)**

1. Nur Syahirah Binti Husin Basri, (Mod A), Supervisor, (Evaluation of Mathematical Model for Traffic Flowing the Merging Area on Highway Operation), 26-07-2016 until 28-12-

2019, (Completed).

2. Nur Syaza binti Mohd Yusop, (Mod A), Supervisor, (The System of Equations for Mixed

Boundary Value Problem of Partial Differential Equation with Constant Coefficient), 24-

06-2014 until 13-02-2018, (Completed).

3. Amira binti Ismail, (Mod A), Co-Supervisor, (Order-2 Extrapolated Implicit Runge-Kutta

Methods with Smoothing for Solving Ordinary Differential Equations), 03-07-2013 until

15-10-2015, (Completed).

4. Izzul Waqiuddin Azhad bin Tammizi, (Mod A), Supervisor, (Computation of Some Integrals Using Radial Integration Method), (Ongoing).

5. Siti Fatiehah Binti Mohamad Zailani, (Mod A), Supervisor, (Comparison of Numerical Solution Between Semi- Analytic Methods and Normal Gaussian Quadrature Method for Dirichlet Bdide), (Ongoing).

**Master of Education (Mathematics)**

1. Maytham Nazzal Barbar, (Mod C), Supervisor, (Identifying The Best Estimation For Lagrange Interpolation Formula Comparing With Some Other Methods), 19-10-2017 until 12-02-2019, (Completed).

2. Muhammad Amanuddin bin Hai Hom, (Mod C), Supervisor, (Tinjauan Perkaitan Antara Tahap Keupayaan Bakal Guru Dalam Penyelesaian Masalah Algebra (PMA) Dengan Minat Terhadap Matematik), 19-10-2017 until 1302-2018, (Completed).

3. Parvathy Muniappan, (Mod C), Supervisor, (Minat dan Kemahiran Terhadap

Penggunaan VLE Frog Dalam Kalangan Guru Matematik Sekolah Menengah), 19-10-

2017 until 12-02-2019, (Completed).

4. Mohammad Syazwan bin Mohamad Sofi, (Mod C), Supervisor, (Penggunaan Perisian Geogebra Di Dalam Pembelajaran Matematik Tingkatan Satu: Melalui Pandangan Pelajar-pelajar Matematik di UPSI), 02-10-2017 until 13-08-2019, (Completed).

5. Lee Huey Kuan, (Mod C), Supervisor, (Persepsi dan Amalan Pengajaran Kemahiran

Berfikir Di Kalangan Guru Matematik), 21-12-2016 until 02-08-2016, (Completed).

6. Suraya Binti Esa, (Mod C), Supervisor, (A Study of Students’ Learning Styles and

Mathematics Anxiety Amongst Form Four Students in Kerian Perak), 21-12-2016 until

02-08-2016, (Completed).

**6 PUBLICATION**

**ISI/Scopus/ERA**

**ISI Web of Knowledge**

**2017**

1. Mohamed, N.F., Zainuddin, Z.M., Salhi, S., Mohamed, N.H. and **Mohamed, N.A.**, Development of Hybrid Algorithm for Integrated Aircraft Routing Problem and Crew Pairing Problem, *Indian Journal of Science and Technology*, 2017. (ISI, Q4)

**SCOPUS**

**2022**

1. Norhayati Ahmat , Nor Afzalina Azmee, Nurul Huda Mo hamed, Zamzana Zamzamir, Nur Syuhada Zahari, Sabarina Shafie, **Nurul Akmal Mohamed**, Raja Noor Farah Azura Raja Ma’amor Shah. (2022). Knowledge, Skills and Attitude of Pre-Service Mathematics Teachers Towards Higher-Order Thinking Skills. International Journal of Educational Methodology (IJEM), 2022, 8(4), 795-804. <http://dx.doi.org/10.12973/ijem.8.4.795>. (Scopus, Q3)
2. Mohd Azman, N.Z., **Mohamed, N.A.**, Mohamed, N.F, & Musa, M. (2022, August 1). Application of the simplex method on profit maximization in Baker’s Cottage. *Indonesian Journal of Electrical Engineering and Computer Science*, *27*(2), 1034. <https://doi.org/10.11591/ijeecs.v27.i2.pp1034-1042>. **Corresponding author**, (Scopus, Q3)

**2021**

1. Basri, N.S.H., **Mohamed, N.A.**, Adnan, M.A., Nawaz, R., Zainuddin, N.H., Mohamed, N.F., The Behavior of the Instantaneous Speed Ratio at Merging Area of Traffic Flowing on Federal Highway, Civil Engineering and Architecture, 2021, 9(4), 1268-1276. **Corresponding author,** (Scopus, Q3).
2. Siti Fatihah C.O., Hila N.Z., Shaharudin S.M., Tarmizi, R.A., **Mohamed N.A**., Romli, N., Muhamad Safiih L., Nikenasih Binatari, Mohd Khairil Farizie, A., Bootstrapping the Multilayer Feedforward Propagation System for Predicting the Arrival Guest in Malaysia, Review of International Geographical Education, 2021, 11(4), 754-763. (Scopus, Q3).

**2020**

1. Basri, N.S.H, **Mohamed, N.A.**, Adnan, M.A., Mohamed, N.F.,Zainuddin, N.H., Instantaneous Speed Ratio of Traffic Flowing through a Merging Area at Kilometer

31.6 on the Highway from Shah Alam to Kuala Lumpur. *Journal of Science and Technology*, Pertanika, Vol 28, No 2, April 2020, pp 565-578. **Corresponding author,** (Scopus, Q3).

1. Mohamed, N. F., **Mohamed, N.A.**, Mohamed , N. H., Subani, N., Comparison of two hybrid algorithms on incorporated aircraft routing and crew pairing problems, *Indonesian Journal of Electrical Engineering and Computer Science,* Vol. 18, No. 3, June 2020, pp. 1665-1672 ,ISSN:2502-4752, DOI: 10.11591/ijeecs.v18.i3.pp1665-1672 (Scopus, Q3).
2. Ibrahim, N.F., Arunasalan T.D., **Mohamed, N.A**., [Cheap vs healthy: Analyzing McDonald’s menu using linear programming](https://beei.org/index.php/EEI/article/view/2072), *Bulletin of Electrical Engineering and Informatics*, Vol 9, Issue 2, 2020, pp. 771-776. (Scopus, Q3).
3. **Mohamed, N.A.**, Mohamed, N.F., Ibrahim, N.F., Ahmat, N., Mohamed, N.H., Semi Quadratic Analytic Method for Neumann Localized Boundary-Domain Integral, *International Journal of Engineering Trends and Technology (IJETT)*, Editor’s Issues – 2020 doi : 10.14445/22315381/CATI1P213, pp. 75-81 ISSN: 2231-5381. **Corresponding author,** (Scopus, Q4).

**2019**

1. Mohamed, N.H., Salhi, S, Nagi, S., **Mohamed, N.A.**, A matheuristic approach for the split delivery vehicle routing problem: an efficient set covering-based model with guided route generation schemes, *International Journal of Mathematics in Operational Research*, 2019, Inderscience Publishers. (Scopus, Q3).
2. **Mohamed, N.A.**, Ibrahim, N.F., Mohamed, N.F., Mohamed, N.H., Spectrum of Dirichlet BDIDE Operator, *Malaysian Journal of Mathematical Sciences*, 2019, 13(S), 129-142, Pertanika. **Corresponding author,** (Scopus, Q4).
3. Lai, L.Y., Ibrahim, N.F., **Mohamed, N.A.**, Comparison among BZAU, SRMI and MRM Conjugate Gradient Methods, *Malaysian Journal of Mathematical Sciences*, 2019, 13(S), 65-75, Pertanika. (Scopus, Q4).

**2017**

1. Ibrahim, N.F. and **Mohamed, N.A.**, Effect of polynomial Shift in the Method for Finding the Largest Eigenvalue of a Polynomial, *Journal of Engineering and Applied Sciences*, 2017. (Scopus, Q3)

**2016**

1. **Mohamed, N.A.,** Ibrahim, N.F., Yusof, M.R.M., Mohamed, N.F. and Mohamed, N.H., Implementations of boundary domain integro-differential equation for Dirichlet BVP with variable coefficient, *Jurnal Teknologi (Sciences and Engineering)*, 2016, Penerbit Universiti Teknologi Malaysia. **Corresponding author,** (Scopus, Q2).
2. Ibrahim, N.F. and **Mohamed, N.A.,** The rate of convergence and weaker convergent condition for the method for finding the largest singular value of rectangular tensors, *Jurnal Teknologi (Sciences and Engineering)*, 2016, Penerbit Universiti Teknologi Malaysia. (Scopus, Q2).
3. Mohamed, N.F., Zainuddin, Z.M., Salhi, S. and **Mohamed, N.A**., The integrated aircraft routing and crew pairing problem: ILP based formulations, *Jurnal Teknologi*, 2016, Penerbit Universiti Teknologi Malaysia. (Scopus, Q2).
4. Mikhailov, S.E. and **Mohamed, N.A**., Numerical solution and spectrum of boundary- domain integral equation for the Neumann BVP with a variable coefficient, *International Journal of Computer Mathematics*, 2012, Taylor and Francis Ltd. (Scopus, Q2).

**ERA**

**2017**

1. Yusop, N.S.M., **Mohamed, N.A**., The System of Equations for Mixed BVP with Three Dirichlet Boundary Conditions and One Neumann Boundary Condition*, Applied Mathematical Sciences*, 2017. (ERA).

**2016**

1. Mohamed, N.F., Zainuddin, Z.M., Salhi, S., Mohamed, N.H. and **Mohamed, N.A**., A Heuristic and Exact Method: Integrated Aircraft Routing and Crew Pairing Problem, *Modern Applied Science*, 2016, 1913-1844 (ERA).
2. **Mohamed, N.A.,** Mohamed, N.F., Mohamed, N.H., Yusof, M.R.M., Numerical Solution of Dirichlet Boundary-Domain Integro-Differential Equation with Less Number of Collocation Points, *Applied Mathematical Sciences*, 2016, Hikari Ltd. **Corresponding author,** (ERA).

**Indexed Journals**

**2022**

1. Muzirah Musa, Siti Nabila Khalid, Fainida Rahmat, **Nurul Akmal Mohamed**, Nor Azian Aini Mat, Fakulti Sains dan Matematik, Pengintegrasian STEM bagi bidang Pembelajaran Statistik dan Kebarangkalian dalam KSSM Matematik Tingkatan Dua, Jurnal Pendidikan Sains & Matematik Malaysia, 2022, 12(1), 1-15.

**2021**

1. Ahmat, N., Mohamed, N.H., Zamzamir, Z. & **Mohamed, N.A.,** Criteria for Selection of the Best Student at Upsi Based on Analytical Hierarchy Process, Journal of Quality Measurement and Analysis, 2021, 17(1), 93-98.
2. Siti Fatihah, C.O., Hila, N.Z., Shaharudin, S.M., Tarmizi, R.A., **Mohamed, N.A.,** Romli, N.,  
   Muhamad Safiih, L., Sri Andayani, Hafizulddin, W.M.W.H., The Effect of Aggregating Bootstrap on the Accuracy of Neural Network System for Islamic Investment Prediction,  
   Universal Journal of Accounting and Finance, 2021, 9(4), 604-612.
3. **Mohamed, N.A.,** Mohamed, N.F., Ibrahim, N.F., Musa, M., Mohamed, N.H., The Spectrum Of Discretized Bdides With Reduced Number Of Collocation Points, European Journal of Molecular and Clinical Medicine, 2021, 8(2), 50-59. **Corresponding author.**
4. Mohamed, N.F., Mohamed, N.A, Mohamed, N.H, **Mohamed, N.A.,** An Integer Linear Programming Model For A Diet Problem Of Mcdonald’s Sets Menu In Malaysia,  
   *European Journal of Molecular and Clinical Medicine*, 2021, 8(2), 60-67.

**2019**

1. Zainuddin, N.H, Lola, M.S., Shaharudin, S.M. and **Mohamed, N.A.**, Empirical Study of Sukuk Investment Forecasting Using Artificial Neural Network Base Algorithm, *International Journal of Innovations in Engineering and Technology (IJIET),* 2019, SN Publisher.
2. Siti Nabila Khalid, Munirah Musa, Fainida Rahmat, **Nurul Akmal Mohamed**, Nor Azian Aini Mat, Pembangunan dan Penilaian Modul Pengajaran STEM bagi Bidang Pembelajaran Statistik dan Kebarangkalian dalam KSSM Matematik Tingkatan Dua, *Journal of Quality Measurement and Analysis*, 2019, 15(2).

**2014**

1. **Mohamed, N.A.**, Semi-Analytic Integration Method for Direct United Boundary- Domain Integro Differential Equation Related to Dirichlet Problem, *Journal of Applied Physics and Mathematics*, 2014, International Academy Publishing (IAP), **Corresponding author.**

**2007**

1. Murid, A. H. M. and **Nurul Akmal Mohamed.** Numerical Conformal Mapping of Doubly Connected Regions via the Kerzman Stein kernel. *International Journal of Pure and Applied Mathematics*, 2007.

**Proceeding**

**2016**

1. Esa, S. and **Mohamed, N.A.**, A study of students’ learning styles and mathematics anxiety amongst form four students in Kerian Perak, International Conference on Education, Mathematics and Sciences 2016 (ICEMS 2016) in conjunction with 4th International Postgraduate Conference Sciences and Mathematics 2016 (IPCSM2016), 2016-11-28, UPSI.
2. Mohamed, N.H., Ahmat N., **Mohamed N.A.**, Che S.R, and Mohamed, N.F., Selection of Malaysia School Youth Cadet Corps Leader by Using Analytical Hierarchy Process: A Case Study at SMK Ahmad Boestamam , The International Conference on Education, Mathematics and Science 2016 (ICEMS2016) in Conjunction with International Postgraduate Conference on Science and Mathematics 2016 (IPCSM2016), 2016-11-

19, UPSI.

1. Yusop, N.S.M., **Mohamed, N.A.**, The system of equations for mixed BVP with one Dirichlet boundary condition and three Neumann boundary conditions, The International Conference on Education, Mathematics and Science 2016 (ICEMS2016) in Conjunction with International Postgraduate Conference on Science and Mathematics 2016 (IPCSM2016), 2016-11-19, UPSI.

**2012**

1. Mikhailov, S.E. and **Mohamed, N.A.**, Iterative Solution of Boundary-Domain Integral Equations for BVP with Variable Coefficient, 8th UK Conference on Boundary Integral Methods, 2011-07-04, University of Leeds, 2012.

**2008**

1. **Mohamed, N.A.** and Ali H. M. Murid. Numerical Conformal Mapping of Doubly Connected Regions Using the Integral Equation via the Kerzman-Stein Kernel and Cauchy’s Integral Formula. In *Symposium Kebangsaan Sains Matematik ke-XV*. UiTM, Shah Alam, Malaysia, 2008.

**2007**

1. Murid, A. H. M. and **Mohamed, N.A.** An Integral Equation Method for Conformal Mapping of Doubly Connected Regions via Kerzman-Stein Kernel. In *Symposium Kebangsaan Sains Matematik ke-XIV*. UM, Kuala Lumpur, Malaysia, 2007, pp. 95-102.

**2004**

1. Murid, A. H. M. and **Mohamed, N.A**. Computation of the Riemann Map using Integral Equation Method and Cauchy’s Integral Formula. *Symposium on Science and Mathematics 2004*, which has been held on December 14-15, 2004, UTM, Johor, Malaysia.

**Book Chapter:**

**2021**

1. Malaysian Research and Development Classification System - 7th Edition Malaysian Science and Technology Information Centre (MASTIC), ISBN/DOI: 1394-4320, 2021. [**https://mastic.mosti.gov.my/publications/mrdcs7th**](https://mastic.mosti.gov.my/publications/mrdcs7th)
2. Active Learning in Education: Students as Owners of Learning, Penerbit Universiti Sains Islam Malaysia (USIM), ISBN/DOI: 978-967-440-934-0, 2021, Research/Academic Book.

**7 CONTRIBUTIONS**

**International Level**

1. Committee Member (Promotion & Publicity) for The 2nd International Conference on Physics and Applied Mathematics (ICPAM 2022), Academic Research Society of Malaysia (ARMS).
2. Article Reviewer for Journal of Science and Mathematics Letters (Title: Review: Mathematical Analysis of the Causes of Examination Malpractices in Nigeria: An Epidemic Modelling Approach), 2022
3. Committee member (Protocol & Invite) for " International Conference On Science, Technology, Engineering & Mathematics in Conjunction with 10th International Postgraduate Conference On Science and Mathematics 2022"
4. Chairperson for parallel session at ICEMS2020 in conjunction with 8th IPCSM2020.
5. Article reviewer for ICSTEM2021 in conjunction with 9th IPCSM2021 (Title: Analysis of The Area Under A Curve (AUC) Using C-Programming: Trapezium and Simpson Rules Techniques).
6. Committee Member for "International Conference On Science, Technology, Engineering & Mathematics in Conjunction with 9th International Postgraduate Conference On Science and Mathematics 2021".
7. Committee Member of International Conference on Education, Mathematics and Science 2020 in conjunction with the 8th International Postgraduate Conference on Science and Mathematics 2020. (Publicity leader).
8. Reviewer of 1 manuscript submitted to Journal of Information and Communication Technology (Title: " A New Connected Observer’s Scheme for Leader Controlling of Multi-Agent Structures Based On Conformable Fractional Calculus), 2020.
9. Reviewer of 1 manuscript submitted to Applied Mathematics E-Notes (Title: Global Stability and Simulation of SEII Model for Diabetes Mellitus), 2020.
10. Reviewer for 2 manuscripts submitted to RAECAS2020.
11. Reviewer for 3 manuscripts submitted to ICEMS2020 in conjunction with 8th IPCSM2020
12. Committee Member of International Conference on Education, Mathematics and Science 2018 in conjunction with the International Postgraduate Conference on Science and Mathematics 2018.
13. Article reviewer for ICEMS2018 in conjunction with IPCSM2018.
14. Article reviewer for The 4th International Conference on the Application of Science and Mathematics 2018 (SCIEMATHIC2018).
15. Article reviewer of 2 papers submitted to ICMS2017 & UROS2017 – ASIA PACIFIC.
16. Article reviewer for The 1st International Conference on Applied & Industrial Mathematics Statistic 2017 (ICOAIMS 2017).
17. Article reviewer of 2 papers submitted to The International Conference On Computing, Mathematics and Statistics 2017 (ICMS2017).
18. Article reviewer for Fundamental Science Congress 2017 (FSC2017).
19. Committee Member of International Conference on Education, Mathematics and Science 2016 in conjunction with the International Postgraduate Conference on Science and Mathematics 2016. (Publicity leader).
20. Chairman for Engineering & Technology, Computer, Basic & Applied Sciences (Ecba-2016), Western Co-Op Hotel, Seoul, Korea Selatan.
21. Article reviewer for ICEMS2016 in conjunction with IPCSM2016.
22. Chairman for 2015 International Symposium On Science And Mathematics (ISYSM2015), Bandung, Indonesia.
23. Article reviewer of 2 papers submitted to Jurnal Sains dan Matematik, UPSI, 2015.
24. Judge of 2nd International Postgraduate Conference on Science and Mathematics 2014.

**National Level**

1. Expert Appraiser of Instrument Content Endorsement for Postgraduate Studies, Universiti Kebangsaan Malaysia (Student: Nadeerah Binti Abd Wahab), 2022.
2. JURY (Website Construction Category) Digital Entrepreneurship Competition 2022, Majlis Keusahawanan Mahasiswa Universiti Malaysia (MAKMUM), Pusat Teknousahawan Universiti, Universiti Tun Hussein Onn Malaysia, 2-4 Nov 2022.
3. Participate in Anugerah Khas YB Menteri Pengajian Tinggi – AKRI (Immersive learning experience category), 2022.
4. Committee Member for Ramadhan with Anak Asnaf (Publisiti Dan Dokumentasi), 2022
5. Consultant for Panduan Pengajaran Dan Pembelajaran Matematik Tambahan Kurikulum Standard Sekolah Menengah (KSSM), Client : Bahagian Pembangunan Kurikulum, Kementerian Pendidikan Malaysia (17-20 Ogos 2021).
6. Judge for Kongres dan Pertandingan Inovasi Pengajaran & Pembelajaran (P&P) UKM (kNOVASI 2021).
7. Speaker and Consultant for Research Talk Partial Differential Equations held in Uitm Cawangan Kuala Terengganu 2021.
8. Consultant for Panduan Pengajaran Dan Pembelajaran Matematik Tambahan Kurikulum Standard Sekolah Menengah (KSSM), Client : Bahagian Pembangunan Kurikulum, Kementerian Pendidikan Malaysia (15-18 June 2021)
9. Expert/Updater/reviser of Malaysian Research and DevelopmentClassification System (MRDCS) 7th Edition for MOSTI grants (Leader for natural science/Mathematics team), 2021.
10. Committee of STEM Education Colloquium Program (2018) Silver Zone organized by KPM-UPSI 09-2018 - 10-2018.
11. Article reviewer for best paper category for MAPIM-KPM award 2018.
12. Executive Committee of Math Explore Race in BITARA School (UPSI-S.K. Banir), 2017.

**State Level**

1. Committee Member in Perak International Metamorphosis of Young Stemers 2019.
2. Executive Committee of Young Innovation Challenge 2017 (YIC 2017) in conjunction with Silver Expo for Young Scientist 2017 (Perak Expo for Young Scientists, PEYS 2017), 2017.

**University Level**

1. Document committee/document writer/Coordinator of new Programme (MEd. (Data Science)), 2012-2024.
2. Interview panel for new lecturer candidates of Mathematics Department FSM UPSI 2022 (Candidate: Afzal Hoq).
3. Student Affairs Unit Committee for Faculty Sains and Mathematics, 2022.
4. Committee of Academic Planning Unit for Post-Graduate Programme, Department of Mathematics, 2022-2023.
5. Student Affairs Unit Committee for Department of Mathematics, 2022-2023.
6. Personnel Unit Committee, Department of Mathematics, 2022-2023.
7. Speaker for ODL Graduate Employability Program: Successful or Not?, 18 Dec 2022.
8. Assessor for Application of Ph.D Programme Admission (Student: Nadeerah Binti Abd Wahab), 2022.
9. Participate for Anugerah PdP (kategori Sains Tulen) in Anugerah Akademia UPSI 2021.
10. Interview Panel for New Lecturer Candidate, Jabatan Matematik Fakulti Sains dan Matematik (Candidate: Saman Babaie-Kafak), 2022
11. Committee Member for Bengkel Motivasi Dan Pengurusan Tekanan 2021 (Technical Leader)
12. Committee Member for Microsoft Office Essential Workshop 2022 (Program Leader)
13. Task Force MyRA Mathematic Department, UPSI 2021
14. Committee Member for "Program Talk On International Collaboration and Industry Engagement (Program Leader)", 2021.
15. Writer of revised Postgraduate program document 2021.
16. Document committee/document writer of revised M.Sc Curriculum Program 2021.
17. Reviewer of project paper for Master of Education (Student: Saranya AP Muniandy, M20182002041).
18. Assessor of the Instrument’s validity (Student: Tuan Nur Afini Farhana Binti Tuan Saiful Bahari, D20181083248).
19. Technical unit leader, Mathematics Department 2021-2023.
20. Committee member for "Program Talk On International Collaboration and Industry Engagement 2021 (Program Leader)".
21. Taskforce of Graduate Employability (GE) 2021-2022 appointed by EDGE for FSM UPSI.
22. Coordinator of Graduate Employability (GE) 2022-2023 appointed by EDGE, UPSI.
23. Committee Member (Technical) for Workshop, Title: Bengkel Persediaan Alam Kerjaya 2021.
24. Committee Member (Technical) for Workshop, Title: Penulisan Resume dan Surat Iringan 2021.
25. Interview panel for new lecturer candidates of Mathematics Department FSM UPSI 2021 (Candidates: Dr. Mojtaba Borza, Dr. Elshahed Mahmoud Moustafa Mohamed).
26. Interview panel for new lecturer candidate of Mathematics Department FSM UPSI 2021 (Candidate: Dr. Farayola Musiliu Folarin).
27. Interview panel for new lecturer candidate of Mathematics Department FSM UPSI 2021 (Candidates: Dr. Nor Aziyatul lzni Mohd Rosli, Dr. Nurul Hajar Mohd Yussoff, Dr. Nor Atirah lzzah Zulkefli).
28. Examiner of Research Proposal Presentation for Doctor of Philosophy (Mathematics), UPSI, (Yue Zongmin-P20191000872), 2020.
29. Evaluator of applications for admission to master's and doctor of philosophy programs-Taha Iman, UPSI, 2020.
30. Panel of interview for new lecturer candidate in Mathematics department, UPSI, 2020.
31. Document committee/document writer of course review (Msc. (Statistics-Mode A)), 2019-2020.
32. Reviewer of project paper for Master of Education (Mathematics)-Mode C (Mohammad Syazwan Mohamad Sofi), UPSI, 2019.
33. Reviewer of project paper for Master of Education (Mathematics)-Mode C (Nurul Aimi Zulkapley), UPSI, 2019.
34. Internal examiner of dissertation for Master of Education (Mathematics)-Mode B (Ahmed Hadi-M20161001048), UPSI, 2019.
35. Committee Member on Verification of Research Inventory Assets for The Faculty of Science and Mathematics, UPSI for The Years 2019 to 2021.
36. Entrepreneurship Exco under the Student Affairs and Alumni Committee of the Faculty of Science and Mathematics, UPSI, 2018.
37. Document committee for the new Master of science program (Mathematics for educators), 2018.
38. Reviewer of project paper for Master of Education (Mathematics)-Mode C (Maytham Nazzar Barbar), UPSI, 2018.
39. Entrepreneurship Exco under the Student Affairs and Alumni Committee of the Faculty of Science and Mathematics, UPSI, 2017.
40. Proposal reviewer for one Ph.D student, 2017.
41. Reviewer of project paper for Master of Education (Mathematics)-Mode C (Muhammad Amanuddin b. Hai Hom), UPSI, 2017.
42. Reviewer of project paper for Master of Education (Mathematics)-Mode C (Parvathy Muniappan- M20161000658), UPSI, 2017.
43. Reviewer of manuscript (Title: Numerical Methods with Scilab Programming, Writer: Annie Gorgey) , 2017.
44. Reviewer of Project Paper for Master of Education (Mathematics)-Mode C (Ahmad Ramzi b. Mohamad-M20142002239), UPSI, 2017.
45. Reviewer of Project Paper for Master of Education (Mathematics)-Mode C (Suraya binti Esa-M20142002222), UPSI, 2017.
46. Reviewer of Project Paper for Master of Education (Mathematics)-Mode B (Karmina binti Abd Rahman-M20151000743), UPSI, 2017.
47. Committee member in MQA document preparation for new program (Bachelor degree of Science (Statistics with education)), 2016.
48. Panel of new program (Master of Science (Mode A)), 2016.
49. Reviewer of Project Paper for Master of Education (Mathematics)-Mode C (Komathi A/P Subramany-M20132002174), UPSI, 2016.
50. Reviewer of Project Paper for Master of Education (Mathematics)-Mode C (Lee Huey Kuan-M20141000970), UPSI, 2016.
51. Reviewer of Project Paper for Master of Education (Mathematics)-Mode C (Gunasundari a/p Chelliah-M20141000946), UPSI, 2016.
52. Panel of new program (Master of Science (Mode B)), 2015.
53. Panel of course review (Master of Education), 2015.
54. Panel of course review (Diploma of Science (Mathematics)), 2015.
55. Reviewer of the Research Grant’s Final Report (Title: Hybrid Methods for Solving Special Second Order Ordinary Differential Equations, Research Code: 2012-0152-102-62), 2015.
56. Reviewer of Project Paper for Master of Education (Mathematics)-Mode B (Jiyar Jafar Ahmed-M20132002171), UPSI, 2015.
57. Reviewer of Project Paper for Master of Education (Mathematics)-Mode B (Daniel Farid Faizal-M20120000048), UPSI, 2015.
58. Reviewer of Project Paper for Master of Education (Mathematics)-Mode B (Maizah Nawi-M20131000675), UPSI, 2015.
59. Speaker of workshop entitled "The use of Latex and Scientific Workplace Workshop on Scientific Writing", 2014.
60. Document committee of new ISMP program, 2014.
61. Document committee of new ISM program, 2014.

**8 CONSULTATION**

1. Consultation and Collaboration of The 2017 Bitara-Exploration Mathematics School Program Between Banir National School and Universiti Pendidikan Sultan Idris, 2017.
2. Consultation and Collaboration of The 2018 Bitara-Gamification Mathematics School Program Between Banir National School and Universiti Pendidikan Sultan Idris, 2018.
3. Consultant of Project (Title: Kaedah Pengiraan Median Pendapatan Berdasarkan Invois Fi Guaman Yg Dikenakan Keatas Fail Fail Litigasi, Sujaihah Mida Azmi & Co), 2020.
4. Consultant of Project (Title: Kaedah pengiraan cepat bagi pinjaman bank berdasarkn interest, Sujaihah Mida Azmi & Co), 2020.
5. Consultant for Panduan Pengajaran Dan Pembelajaran Matematik Tambahan Kurikulum Standard Sekolah Menengah (KSSM), Client: Bahagian Pembangunan Kurikulum, Kementerian Pendidikan Malaysia (5-8 October 2021), Honorarium fees: RM 1440.00.
6. Consultant for Panduan Pengajaran Dan Pembelajaran Matematik Tambahan Kurikulum Standard Sekolah Menengah (KSSM), Client: Bahagian Pembangunan Kurikulum, Kementerian Pendidikan Malaysia (25-28 August 2022), Honorarium fees: RM 540.00.
7. International Consultancy service for review of Mathematics Curriculum for the Ministry of Education of one country in Asia (I cannot state the name of the country here as I signed the agreement to keep the name of the country private from the public for 5 years. Please ask during the interview session if you want to see the Letter of agreement), (July- Sept 2022), Honorarium fees: RM 7600.00.

**9 ACADEMIC AWARD**

1. The Best Paper Award in International Conference on Informatics, Computing & Applied

Mathematics (ICICAM) UniSZA, 2019.

2. The Best Presentation at The international conference on Engineering & Technology, Computer, Basic & Applied Sciences held at Seoul, Korea Selatan in 2016.

3. Gold medal for Innovation Competition 2.0 Fakulti Sains dan Matematik, UPSI, 2019.

4. Participate for Anugerah PdP (kategori Sains Tulen) in Anugerah Akademia UPSI 2021.

5. Participate in Anugerah Khas YB Menteri Pengajian Tinggi – AKRI (Immersive learning experience category), 2022.

**10 ACADEMIC CERTIFICATE**

1. Excellent Service Award Certificate 2013, Universiti Pendidikan Sultan Idris. (**LNPT=99.60%**)

2. Excellent Service Award Certificate 2014, Universiti Pendidikan Sultan Idris. (**LNPT=99.30%**)

3. Excellent Service Award Certificate 2015, Universiti Pendidikan Sultan Idris. (**LNPT=86.80%**)

4. Excellent Service Award Certificate 2016, Universiti Pendidikan Sultan Idris. (**LNPT=91.40%**)

5. Excellent Service Award Certificate 2017, Universiti Pendidikan Sultan Idris. (**LNPT=95.40%**)

6. Excellent Service Award Certificate 2018, Universiti Pendidikan Sultan Idris. (**LNPT=93.00%**)

7. Excellent Service Award Certificate 2019, Universiti Pendidikan Sultan Idris. (**LNPT=97.10%**)

8. Excellent Service Award Certificate 2020, Universiti Pendidikan Sultan Idris. (**LNPT=95.80%**)

9. Excellent Service Award Certificate 2021, Universiti Pendidikan Sultan Idris. (**LNPT=97.30%**)

**11 SPORTS**

1. Athlete: Chess (Sukan Antara Staf Universiti Malaysia (SUKUM), (National) UMP,

Pahang 2018.

1. Athlete: Chess (Karnival Sukan Staf UPSI (KIESTA)), 2017 (Gold).
2. Athlete: Chess (Karnival Sukan Staf UPSI (KIESTA)), 2018 (Gold).
3. Athlete: Chess (Karnival Sukan Staf UPSI (KIESTA)), 2019 (Gold).
4. Athlete: Chess (Karnival Sukan Staf UPSI (KIESTA)), 2021 (Gold).
5. Athlete: Chess (Karnival Sukan Staf UPSI (KIESTA)), 2022 (Gold).
6. Athlete: Chess (UPSI closed, UPSI), 2018 (Best woman-Staff).
7. Athlete: Chess (Karnival Sains dan Matematik, UPSI), 2018 (Third place).
8. Athlete: Chess (UPSI Open, UPSI), 2019.
9. Athlete: Friendly match UPSI-Polis Diraja Malaysia(PDRM), 1 May 2021, Lichess Online Platform, Arena Rapid 10 minutes.
10. Athlete: Friendly match UPSI-UNIMAS, 24 April 2021, Lichess Online Platform, Arena Rapid 10 minutes.
11. Athlete: Herosifu Chess Tournament, Open U18, 19/7/2021.
12. Club: UPSI’s Chess Club.

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| **References** | | |
| **Name** | : | Associate Professor Dr. Mohd Faizal Nizam Lee Abdullah |
| **Telephone No.**  **E-mail** | :  : | +60126179815  faizalee@fsmt.upsi.edu.my |
| **Position** | : | Head of Mathematics department |
| **Company** | : | Faculty of Science and Mathematics, UPSI, Tanjung Malim 35900 Perak. |
|  | | |
| **Name** | : | Assoc. Prof. Dr. Mazlini binti Adnan |
| **Telephone No.**  **E-mail** | :  : | 015-48797418  mazlini@fsmt.upsi.edu.my |
| **Position** | : | Lecturer |
| **Company** | : | Faculty of Science and Mathematics, UPSI, Tanjung Malim 35900 Perak. |
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