



Professor Dr. Haslinda Ibrahim

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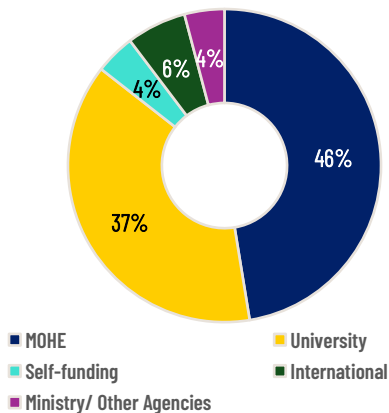
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ABOUT ME

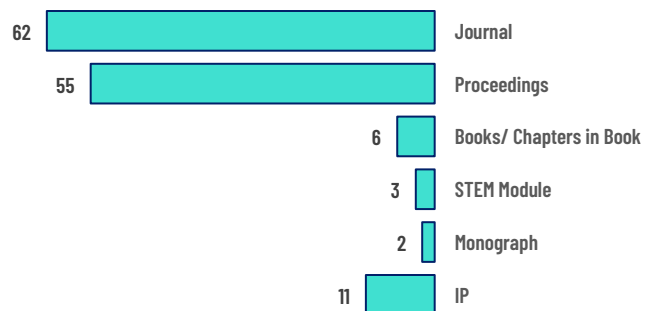
Professor Haslinda Ibrahim is a distinguished expert in combinatorics (Design Theory and Graph Theory) and STEM Education. She obtained her BSc (Mathematics) - Michigan State University, MSc(Mathematics) - Indiana State University, and PhD(Mathematics) - Southern Illinois University. Her research primarily centers on Design Theory and Graph Theory, where she has made notable contributions, including nature-inspired ideas such as the butterfly triple systems and wing sequences. In addition to her research, she is widely recognized for her contributions to mathematics education, particularly through the development of the Explore, Discover, and Develop (ExDiD) model, an innovative, student-centered teaching framework.

STATISTICS

RESEARCH & CONSULTATION



PUBLICATIONS & INTELLECTUAL PROPERTY (IP)



AWARDS AND ACHIEVEMENTS

1. Recipient, Graduate Assistantship Award (Indiana State University), 1995 – 1996.
2. Graduated Phi Kappa Phi (Indiana State University), 1996
3. Best University Research Award (Universiti Utara Malaysia), 1998.
4. Recipient, Graduate Assistantship Award (Southern Illinois University), 2000-2003.
5. Outstanding PhD Teaching Assistants (Southern Illinois University, USA), 2002.
6. Dissertation Research Award (Southern Illinois University, USA), 2002 – 2003
7. Excellence Service Award (Universiti Utara Malaysia), 2007.
8. Bronze medal Award, 9th Malaysia Technology Expo: Invention and Innovation Awards, Malaysia (2010). Integrating Time preferences in an Automated Hybrid Sport Tournament Scheduling System. Ramli, R., Ibrahim, H. & Cai Juan, S.
9. Bronze Medal. 24th International Invention, Innovation & Technology Exhibition 2013 (ITEX '13). TeCaS: A Hybrid System for Teacher-Candidate Selection with Multi-Criteria Competencies. Razamin Ramli, Fazillah Mohmad Kamal, Mohd Izam Ghazali, Haslinda Ibrahim, Maznah Mat Kasim & S. Vikneswari.
10. Gold Medal. Innovative Research, Invention and Application Exhibition 2017 (I-RIA 2017). A Heuristic Scalable Decision Support System to Facilitate Smart Merchant Flow Operations. Waleed Khalid, Haslinda Ibrahim, Razamin Ramli, Syariza Abd Rahman & Abdu Mohammed Atta.
11. Champion for Transformative Teaching Category (AKRI 2019) – Anugerah Khas YB Menteri Pendidikan Malaysia Rekabentuk Kurikulum dan Penyampaian Inovatif. Haslinda Ibrahim, Masnita Misiran & Norhayati Yusof. Explore, Discover & Develop (ExDiD): Fostering Active Learning.
12. Hadiah Sanjungan, Reka Cipta Matematik, Persatuan Matematik Malaysia (PERSAMA), 2021. Explore, Discover, Develop: Design Thinking and Creativity. Haslinda Ibrahim, Masnita Misiran & Norhayati Yusof.
13. Gold Medal. International Exhibition and Symposium on Productivity, Innovation, Knowledge, Education and Design (i-SPIKE 2021). ABRA-Maths-Early Mathematics Learning via Mini Tennis. Rahela Abdul Rahim, Haslinda Ibrahim, Fauziah Baharom, Mohamad Rahizam Abdul Rahim, Syahrul Ridhwan Norazuki.
14. Distinguished Teacher Award, 2023, Universiti Utara Malaysia.
15. Anugerah Bintang SDG. 2024. Anugerah Dedikasi Akademik: Menjana Pendidikan Mampan untuk Generasi Baru.



● ● **RESEARCH: INTERNATIONAL GRANTS** ● ●

1. Title: A Heuristic Scalable Decision Support System to Facilitate Smart Merchant Flow Operations
Sponsorship: Al-Adeem Company, Iraq
Researchers: Waleed Khalid, Haslinda Ibrahim, Syariza Abdul Rahman, Abdu Mohammed Ali Atta, Habibulla Ahadkulov Amount: RM10,600
Duration:December 2017 –October 2017.
2. Title: A Conceptual Framework for Smooth Vehicle Diagnostics Services
Sponsorship: Al-Adeem Company, Iraq
Researchers: Waleed Khalid, Haslinda Ibrahim, Razamin Ramli, Syariza Abdul Rahman, Norazura Ahmad
Amount: RM20,000
Duration:December 2017 –December 2018.
3. A Theoretical Join of Modern Fixed Point, Dynamical Systems, and Homotopy Analysis Methods for the Solutions of Nonlinear Hybrid Differential Equations
Sponsorship: UUM and TSUE, Tashkent
Researchers: Habibulla Ahadkulov, Haslinda Ibrahim, Sulaiman, Teh Yuan Ling, Zahridin, Yuldashev, Karimov and Qodirov
Amount: RM20,000
Duration: March 2024 - March 2026



● ● **RESEARCH: NATIONAL GRANTS** ● ●

1. Title: Grow, Learn & Succed: Aquaphonics in STEM Classrooms for Rural Schools in Malaysia
Sponsorship: Suruhanjaya Kebangsaan UNESCO Malaysia (SKUM)
Researchers: Prof Dr Haslinda Ibrahim, PM Dr Nazihah Ahmad, PM Dr Muhammad Mat Yusof, PM Dr. Mohd Farizal Rahemi
Amount:RM7352
Duration:March - September 2023
2. Title: NEW GENERALIZED BALL CURVES REPRESENTATIONS ALGORITHM BY USING LEAST SQUARE METHOD AND APPLICATION TO LOGISTIC GROWTH MODEL.
Sponsorship: Higher Education Ministry, Malaysia
Researchers: Dr Sharmila Karim, Dr Ali dan Prof Dr Haslinda Ibrahim
Amount:FRGS/RM71,000
Duration: September 2022 – August 2024
3. Title: I'M STEM Teachers & I'M HOTS: Holistic Index for Meaningful Teaching Practices of Science, Technology, Engineering and Mathematics (STEM) in Secondary Schools
Sponsorship: Higher Education Ministry, Malaysia
Researchers: Prof Fauziah Rahim, Dr Malina Zulkifli, Prof Dr Haslinda Ibrahim, Dr Nurliyab dan Dr Nursiha Alias.
Amount:FRGS/RM75,000



RESEARCH: NATIONAL GRANTS

4. Title: PENINGKATAN SUMBER EKONOMI GOLONGAN ASNAF MELALUI "EZEE DIY AQUAPONICS DESIGN".
Sponsorship: Agensi Luar
Researchers: Dr Muhammad, Prof Madya Dr Farizal, Prof Dr Haslinda Ibrahim, Prof Madya Dr Nazihah Ahmad.
Amount:FRGS/RM14,810
Duration: September 2022 – September 2023
5. Title: Unravel Hidden Pattern of Flip-flops Wings: Butterfly Sequence for Key Generation Algorithms.
Sponsorship: Higher Education Ministry, Malaysia
Researchers: Prof Dr Haslinda Ibrahim, Dr Sharmila Karim, Dr Adyda Ibrahim
Amount:FRGS/RM90,700
Duration: November 2020 – April 2024
6. Title: AN EFFICIENT COMPUTATIONAL ALGORITHM FOR SOLVING ARBITRARY SYLVESTER MATRIX EQUATIONS IN FUZZY CONTROL THEORY
Sponsorship: Higher Education Ministry, Malaysia
Researchers: Associate Prof Dr. Nazihah Ahmad, Prof Dr Haslinda Ibrahim,
Amount:FRGS/RM64,200
Duration: December 2018 – December 2021
7. Title: SOLUTIONS OF NONLINEAR FRACTIONAL DIFFERENTIAL EQUATIONS VIA A GENERALIZED FIXED POINT METHOD AND HOMOTOPY ANALYSIS METHOD
Sponsorship:Higher Education Ministry, Malaysia
Researchers: Dr. Teh Yuan Ying, Prof Dr Haslinda Ibrahim, Associate Prof. Dr. Azizan Saaban, Dr. Habibulla Ahadkulov
Amount:FRGS/RM48900
Duration: December 2018 – December 2021
8. Title: A NOVEL FRONTIER OF COMBINATORIAL CLUSTERING ALGORITHM USING BUTTERFLY WINGS
Researchers: Dr. Sharmila, Prof Dr Haslinda Ibrahim, DR. MOHD SAIFUL ADLI BIN MOHAMAD, Dr. Habibulla Ahadkulov
Amount:FRGS/RM 47,300
Duration: December 2018 – December 2021.
9. Title: A novel computational method for solving no nonnegative fully fuzzy linear systems without restrictions
Sponsorship: Higher Education Ministry, Malaysia
Researchers: Prof. Dr. Haslinda Ibrahim, Assoc. Prof. Dr. Nazihah Ahmad, Prof, Dr. Tahir Ahmad.
Amount:FRGS/RM70,000
Duration: July 2014 – March 2017
10. Title: Enhance Markov Chain Method with Embedded Adjustable Weight on Analyzing Manpower Data in Higher Learning Institutions
Sponsorship: Higher Education Ministry, Malaysia
Researchers: PM Dr. Rahela, Prof. Dr Haslinda, Sahubar Ali
Amount: FRGS/ RM53,400
Duration: December 2013 – March 2016

RESEARCH: NATIONAL GRANTS

11. Title: A snappy method for extracting distinct geometric representation of Hamiltonian circuits
Sponsorship: Higher Education Ministry, Malaysia
Researchers: Dr. Sharmila, Prof Dr Haslinda,
Amount: FRGS/ RM64,900
Duration: July 2014 – December 2016
12. Title: A Novel circular representation strategy for starter generation in enumerating $n!$ permutations
Sponsorship: KPT
Researchers: Dr. Sharmila, PM Dr Haslinda, Prof. Zurni Omar.
Amount: RAGS/ RM23,000
Duration: July 2012 – December 2014
13. Title: Knowledge Sharing Behaviour Theory: An Exploratory Study on Profit-Oriented Webloggers
Sponsorship: Higher Education Ministry, Malaysia
Researchers: Dr. Nor Intan Saniah, Dr, Nerda Zura, Dr. Syazwan. PM. Dr. Haslinda Ibrahim
Amount: ERGS/RM40,000
Duration: July 2012 – December 2014
14. Title: Multilevel Optimization for Dense Motion Estimator
Sponsorship: Higher Education Ministry, Malaysia
Researchers: Azizan Saaban, El Mostafa Kalmoun, Haslinda Ibrahim, Razamin Ramli, Zurni Omar
Amount: FRGS/RM45,600
Duration: December 2008 – December 2010
15. Title: Developing New Algorithms for Finding Determinants
Sponsorship: Higher Education Ministry, Malaysia
Researchers: Associate Prof. Dr. Zurni Omar, Dr. Haslinda Ibrahim
Amount: FRGS/RM54,000
Duration: December 2008 – December 2011
16. Title: Generalized Triad Design
Sponsorship: Higher Education Ministry, Malaysia
Researchers: Dr Haslinda Ibrahim, Associate Professor Dr Zurni Omar
Amount: FRGS/RM58,000
Duration: December 2008 – December 2011
17. Title: Traffic Modeling of Web Applications
Sponsorship: Higher Education Ministry, Malaysia
Researchers: Dr. Rahela Abdul Rahim, Prof. Dr. Haslinda Ibrahim, Prof. Dr. Sharipah Sooad
Amount: FRGS/RM24,000
Duration: September 2007 – September 2009

RESEARCH: UNIVERSITY GRANTS

1. Title: Towards Sustainable Green Classroom & Smart Teaching Aid: Designation of Aquaponics System for STEM Courses in UUM.
Sponsorship: Development and Ecosystem Research Grant Scheme (décor), UUM
Researchers: PM Dr. Mohd Farizal Bin Rahemi, Dr Muhammad Bin Mat Yusof, Prof Dr Haslinda Ibrahim, PM Dr Nazihah Ahmad
Amount: UUM/RM10000
Duration: December 2020 - November 2020
2. Title: Constructing problem-based modules to cultivate engagement in learning mathematics
Sponsorship: Scholarship of teaching and learning research grant, UUM
Researchers: Dr. Masnita Misiran@Bakun, Prof Dr Haslinda Ibrahim, Dr. Zakiah Zain, Dr Zahayu Md Yusof
Amount: UUM/RM6250
Duration: October 2018 – October 2019
3. Title: Modeling Knowledge Sharing Behavior Among Profit Oriented Online Users Through Social Media Using Analytical Hierarchy Process And Social Network Analysis
Sponsorship: UUM
Amount: RM20 000
Researchers: Ruzleeta Zakaria, Dr. Nor Intan Saniah, Zakiah Hashim, Prof. Dr. Haslinda Ibrahim
Duration: June 2016 – December 2017
4. Title: On Decomposition of Complete Graph in Generating $N!$ Permutations
Sponsorship: PBIT/UUM
Amount: RM40 000
Researchers: Prof. Dr. Haslinda Ibrahim, Dr. Sharmila Karim. Prof. Dr. Zurni Omar
Duration: December 2012 – December 2014
5. Title: A New Combinatorial Division Free Method For the Determinant of Matrices
Researchers: Dr. Sharmila, Prof Dr Haslinda Ibrahim, Prof. Zurni Omar, Dr. Nazihah Ahmad
Duration: Jan 2012 – April 2014
6. Title: Interval Method For Constructing Triad Design $v = 6n + 1$.
Sponsorship: Postgraduate Incentive/UUM
Amount: RM10 000
Researchers: Prof. Dr. Haslinda Ibrahim, Tareq Mohammad Abu Saa
Duration: December 2011 – December 2013
7. Title: In Seeking Algorithms for Distinct Three-fold Triple Systems
Sponsorship: PBIT/UUM
Amount: RM10 000
Researchers: Prof. Dr. Haslinda Ibrahim, Dr. Sharmila Karim. Mohd Saiful Adli
Duration: December 2011 – March 2013

RESEARCH: UNIVERSITY GRANTS

8. Title: A Novel Method to Evaluate Determinants of $n \times n$ matrix using starter set based on permutations
Sponsorship: Postgraduate Incentive/UUM
Amount: RM10 000
Researchers: Prof. Dr. Haslinda Ibrahim, Prof. Dr. Zurni Omar, Lugen M. Zake
Duration: December 2011 – December 2013
9. Title: Academic Staff Workload Index Based on Multicriteria Decision Making: A comparative Analysis
Sponsorship: UUM
Researchers: Mazlan Mohd Sappiri, Maznah Mat Kasim, Mohammad Zukuwwan, Haslinda Ibrahim, Razamin Ramli
Amount: RM10 000
Duration: Jan 2010 – March 2012
10. Title: The development of a hybridized competency-based teacher candidate selection system
Sponsorship: UUM
Researchers: Razamin Ramli, Mohd Izam Ghazali, Haslinda Ibrahim, Maznah Mat Kassim, Fazillah Mohmad Kamal
Duration: Jan 2010 – Jan 2012
11. Title: Modeling Postgraduate Students Flow
Sponsorship: UUM/LEADS
Researchers: PM Dr. Rahela, Prof. Dr. Haslinda, PM Dr. Maznah
Amount: LEADS/RM5000
Duration: December 2010 – June 2011
12. Title: Generating sets of center-range in the design of Radial Basis Function Neural Networks
Sponsorship: UUM
Researchers: Fathilah, Prof. Dr. Haslinda, PM Dr. Razamin
Amount: RM10 000
Duration: December 2010 – December 2011
13. Title: Threshold Signature Scheme Based On Factoring and Discrete Logarithms Problems
Sponsorship: UUM
Researchers: Saiful Adli, Prof. Dr. Haslinda Ibrahim
Amount: LEADS/RM5000
Duration: 2011 – 2012
14. Title: Developing a Theorem Proving Strategy for Generating Mathematical Pattern of Logical Structures
Sponsorship: UUM
Researchers: Hasnan Hassan, Haslinda Ibrahim, Hawa Ibrahim, KamarunNizam
Amount: RM10 000
Duration: July 2005 – September 2006



● ● **RESEARCH: UNIVERSITY GRANTS** ● ●

15. Title: Balanced Triad Parallel Sessions for a conference Using Combinatorial Design
Sponsorship:UUM
Researchers:Prof. Dr. Haslinda Ibrahim, PM Dr. Razamin Ramli, Mohammad Hasnan Hassan
Amount:RM1000
Duration: December 2004 – December 2005



● ● **CONSULTATIONS** ● ●

1. Tajuk: Ic stem in food security inculcating stem (science, technology, engineering and mathematics) initiatives via aquaponics farming at rural school in malaysia: creating sustainable food security. Sponsorship/Amount: UNESCO (RM7352)
2. Tajuk: Program kesedaran dan pembudayaan sains, teknologi dan inovasi (program scitech4u-stem camp mosti 2024) tajuk program: kem intelektual muda stem. Sponsorship/Amount: MOSTI(RM7402)
3. Tajuk: Program kesedaran dan pembudayaan sains, teknologi dan inovasi (program scitech4u-stem camp mosti 2024) tajuk program: stem grooming camp. Sponsorship/Amount: MOSTI(RM6525)
4. Tajuk: Program sains, teknologi dan inovasi 100 saintis 100 sekolah (sti100) tajuk program: minda sains dan matematik. Sponsorship/Amount: MOSTI(RM2863)



1. Adnan Asghar, Mallika Vasugi Govindarajoo, Khairy Zaimi, Haslinda Ibrahim, Liaquat Ali Lund. (2024). Dual Solutions of Two-Dimensional Hybrid Nanofluid Flow and Heat Transfer Past a Porous Medium Permeable Shrinking Sheet with Influence of Heat Generation/Absorption and Convective Boundary Condition. Journal of Advanced Research in Numerical Heat Transfer. Volume 26, Issue 1, 67 - 83.
2. Maizon Mohd Darus, Haslinda Ibrahim, Sharmila Karim. (2023). Historical Review of Existing Sequences and The Representation of the wing Sequence. Mathematics and Statistics. Volume 11, Issue 3, 454 - 463.
3. Haslinda Ibrahim, Raja'i Aldiabat, Sharmila Karim. (2022). Butterfly Triple System Algorithm. Journal of Information and Communication Technology. Volume 21, Issue 1, 27 -49.
4. Sharmila Karim, Haslinda Ibrahim (2021). Starter Set Generation Based On Factorial Numbers For Half Wing Of Butterfly Representation. Mathematics and Statistics. Volume 9, Issue 5, 664 – 668.
5. H. Akhadkulov, T.Y. Ying, A.B. Saaban, M.S. Noorani, and H. Ibrahim (2021). Notes on Frasnosekili Type and Fixed-Point Theorems and Their Application to Fractional Hybrid Differential Problems. Fixed Point Theory. No 2. 465-480. DOI: 10.24193/fpt-ro.2021.2.3
<http://www.math.ubbcluj.ro/~nodeacj/sfptcj.html>
6. Mowafaq Alqadri, Haslinda Ibrahim and Sharmila Karim (2020). Cyclic Triple Factorization. IAENG International Journal of Applied Mathematics (IJAM). Vol. 50; Issue 4, 895 – 906.
http://www.iaeng.org/IJAM/issues_v50/issue_4/index.html
7. Mowafaq Alqadri, Haslinda Ibrahim and Sharmila Karim (2020). On Cyclic Butterfly k-Cycle Decomposition of the 2-Fold Complete Graph. Journal of Engineering and Applied Sciences. Vol. 14; issue 11, 2426 - 2433
<https://medwelljournals.com/abstract/?doi=jeasci.2020.2426.2433>
<http://dx.doi.org/10.36478/jeasci.2020.2426.2433>
8. Mowafaq Alqadri, Haslinda Ibrahim and Sharmila Karim (2020). Decompositions of Complete Multigraphs into Cyclic Designs. International Journal on Informatics Visualization Vol 4, issue 2, 80-84.
<http://joiv.org/index.php/joiv/article/view/349>
<http://dx.doi.org/10.30630/joiv.4.2.349>.
9. Haslinda Ibrahim and Sharmila Karim (2020). State-of-the-Art in Complete Graph Decomposition. Solid State Technology. Vol. 63 , issue 3, 249-259.
<http://solidstatetechnology.us/index.php/JSST>
10. Mowafaq Alqadri, Haslinda Ibrahim and Sharmila Karim (2019). On Cyclic Triple System and Factorization. Journal of Engineering and Applied Sciences. Vol. 14; Issue 21, 7928 – 7933
<http://medwelljournals.com/abstract/?doi=jeasci.2019.7928.7933>
<https://doi.org/10.3923/jeasci.2019.7928.7933>

11. Habibulla Akhadkulov, Mohd Salmi Noorani, Haslinda Ibrahim and Sokhobiddin Akhatkulov 2019. A sufficient condition for C_1 -smoothness of the conjugation between piecewise smooth circle homeomorphisms. Annals of Functional Analysis. Volume 10, Number 4 (2019), 562-569
12. Sharmila Karim and Haslinda Ibrahim (2019). Representation of Half Wing of Butterfly and Hamiltonian Circuit for Complete Graph using Starter Set Method. <http://medwelljournals.com/abstract/?doi=jeasci.2019.7084.7088>
<https://doi.org/10.3923/jeasci.2019.7084.7088>
13. Raja'i Aldiabat, Haslinda Ibrahim and Sharmila Karim (2019) On the Existence of a Cyclic Near-Resolvable $(6n+4)$ cycle System of $2K_{12n+9}$ Journal of Mathematics. url: <https://www.hindawi.com/journals/jmath/2019/5276753/abs/>
<https://doi.org/10.1155/2019/5276753>
14. Raja'i Aldiabat and Haslinda Ibrahim (2018), Near-Compatible Factorization, International Journal of Pure and Applied Mathematics, Volume 120 No. 2 2018, 259-272, ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version), url: <http://www.ijpam.eu>, doi: 10.12732/ijpam.v120i2.10
15. Maizon Mohd Darus, Haslinda Ibrahim and Sharmila Karim (2018) A New Method For Geometric Representation Of Distinct Hamiltonian Circuits In Complete Graph Decomposition, Int. J. Appl. Math. Stat.; Vol. 57; Issue No. 3, ISSN 0973-1377 (Print), ISSN 0973-7545 (Online)
16. Habibulla Akhadkulov, Haslinda Ibrahim, Azizan Saaban and Sokhobiddin Akhatkulov. A Sufficient Condition for the Absolute Continuity of Conjugation between Circle Homeomorphisms with breaks (2018). International Journal of Applied Mathematics, vol 32, No 2. 177-188.
<http://dx.doi.org/10.12732/ijam.v32i2.2>
17. Maizon Mohd Darus, Haslinda Ibrahim and Sharmila Karim (2017) Some New Theoretical Work on Half Butterfly Method for Hamiltonian Circuit In Complete Graph. MATEMATIKA, Volume 33, Number 1, 113–118
18. Eman f. Mohommed, Haslinda Ibrahim, Nazihah Ahmad. (2017) Enumeration Class of Polyominoes Defined by Two Columns. Journal of Mathematics. Volume 13, Issue 1, PP 44-49
19. Mowafaq Alqadri and Haslinda Ibrahim. (2017) A Near Cyclic (m_1, m_2, \dots, m_r) -Cycle System of Complete Multigraph. Far East Journal of Mathematical Sciences. Vol 101, No 8, 1671-1690
20. Eman, F. Mohamme, Nazihah Ahmad, Haslinda Ibrahim and Ammar Seddiq Mahmood. (2016). Nested Chain Movement of Length 1 of Beta Number in James Abacus Diagram. Global Journal of Pure and Applied Mathematics, Vol 12, No 4, 2953 – 2969
21. Sia Jye Ying, Ho Chee Kit, Haslinda Ibrahim and Nazihah Ahmad (2016). Algebraic Properties of Generalized Fibonacci Sequence via Matrix Method, Journal of Engineering and Applied Mathematics, 11(11): 2396-2401

22. S. Karim, H. Ibrahim, Z. Omar And H. Sapiri. (2016) A New Starter Sets Generation Method by Fixing Any Elements Under Exchange Restriction. International Journal of Applied Mathematics and Statistics. Vol 54, No. 2. 132 – 141
23. Eman, F. Mohommed, Nazihah Ahmad and Haslinda Ibrahim. (2016) Intersection of Main James Abacus Diagram for the Outer Chain Movement with Length [1, 0, 0, ...]. Journal of Telecommunication, Electronic and Computer Engineering, 8(8), 51 – 56.
24. Chan Yeen Chia, Mahmoud Abdel Aty, and Haslinda Ibrahim (2016). Three-Qubit Quantum Entanglement Robustness. Quantum Information Review: An International Journal. Quant. Inf. Rev 4. No 4. 1-6.
<http://dx.doi.org/10.18576/qir/paper>
25. Rahela Rahim, Fadilah Jamaluddin, Haslinda Ibrahim and Sahubar Ali Nadhar Khan. (2016). Evaluation of Faculty Policies Using Hybrid Markov Chain Model. The social Sciences 11(10) 2590-2595
26. G. Malkawi, N.Ahmad, H.Ibrahim And Diya' J.Albayari. (2015) A Note on Solving Fully Fuzzy Linear Systems by Using Implicit Gauss Cholesky Algorithm. Analele Stiintifice ale Universitatii Ovidius Constanta, Seria Mathematica Vol 26, No. 4. 585-592.
27. Maizon Mohd Darus, Haslinda Ibrahim and Sharmila Karim (2015). The Construction of Distinct circuits Length Six for Complete Graph. International Journal of Applied Mathematics and Statistics. 8-16. 53(1)
28. Ghassan Malkawi, Nazihah Ahmad and Haslinda Ibrahim (2015). Solving The Fully Fuzzy Sylvester Matrix Equation with Triangular Fuzzy Number. Far East Journal of Mathematical Sciences, 98(1), 37 55.
DOI:10.17654/FJMSep2015_037_055.
29. Ghassan Malkawi, Nazihah Ahmad and Haslinda Ibrahim. (2015). An Algorithm For A Positive Solution Of Arbitrary Fully Fuzzy Linear System. Computational Mathematics and Modeling, , 26(3), 436465. DOI:10.1007/s10598-015-9283-0
30. Ghassan Malkawi, Nazihah Ahmad, Haslinda Ibrahim And Diya' J. Albayari, D. J. (2015). A Note On“Solving Fully Fuzzy Linear Systems By Using Implicit Gauss—Cholesky Algorithm”. Computational Mathematics And Modeling, 26(4), 585-592.DOI:10.1007/s10598015 9295-9
31. Sharmila Karim, Zurni Omar, Haslinda Ibrahim, Khairil Iskandar Othaman and Mohamed Sulaiman (2014). New Recursive Circular Algorithm for Listing All Permutations 22 – 33. Pertanika Journal Science &Technology 22 (1).
32. Ghassan Malkawi, Nazihah Ahmad and Haslinda Ibrahim, Bander Alshamari. (2014). Row Reduced Echelon Form for Solving Fully Fuzzy System with Unknown Coefficients. Journal of Fuzzy Set Valued Analysis, 2014:1-18.
DOI:10.5899/2014/jfsva-00193



33. Ghassan Malkawi, Nazihah Ahmad and Haslinda Ibrahim. (2014). On The Weakness Of Linear Programming To Interpret The Nature Of Solution Of Fully Fuzzy Linear System. *Journal of Uncertainty Analysis and Applications*, 2(1), 1-23. DOI:10.1186/s40467-014-0016 2
34. Ghassan Malkawi, Nazihah Ahmad and Haslinda Ibrahim. (2014). A Note On "The Nearest Symmetric Fuzzy Solution For A Symmetric Fuzzy Linear System". *Analele Stiintifice ale Universitatii Ovidius Constanta, Seria Matematica*. 23(2). DOI:10.1515/auom-2015-0034.
35. Ghassan Malkawi, Nazihah Ahmad and Haslinda Ibrahim. (2014). On the Weakness of Linear Programming to interpret the nature of Solution of Fully Fuzzy Linear System. Vol 2., No 16.
36. Chan Yeen Chia, and Haslinda Ibrahim (2014). Phase Properties of a multi-photon Jaynes-Cummings Model. *Quantum Information Review: An International Journal. Quant. Inf. Rev* 2. No 2. 1-5.
<http://dx.doi.org/10.12785/qir/paper>
37. Sharmila Karim, Zurni Omar and Haslinda Ibrahim. (2013) The Division Free Parallel Algorithm for Finding Determinant. *Far East Journal of Mathematical Sciences*. Vol 79, No 1. 105 – 109
38. Razamin Ramli, Haslinda Ibrahim, Lim Tze Shung. (2013) Innovative Crossover and Mutation in a Genetic Algorithm Based Approach to a Campus Bus Driver Scheduling Problem with Break Consideration and Embedded Overtime. *Journal of Applied Mathematics & Information Sciences*. Vol 7, No. 5. 1921 – 192
39. Rahela Rahim, Haslinda Ibrahim, Maznah Mat Kasim, Farah Adibah Adnan. (2013). Projection Model of Postgraduate Student Flow. *Applied Mathematics & Information Sciences*. Vol 7, No 21. 383 – 387.
40. Maznah Mat Kassim, Razamin Ramli, Haslinda Ibrahim, Mohd Izam Ghazali, Fazillah Mohamad Kamal, and S, Vikneswari. (2013). Prioritizing of Criteria in Teacher-Candidate Selection Process by Analytic Hierarchy Process. *International Journal of Management Studies*. Vol 20, No 2, 15-28
41. Sharmila Karim, Haslinda Ibrahim, Zurni Omar and Nazihah Ahmad (2013). New Permutation Generation Under Exchange Strategy (PGuess). *Modern Applied Science*. Vol 7, No 8. 15-21
42. Haslinda Ibrahim, Lugean Zake, Zurni Omar, Sharmila Karim (2013). SEALiP: A Simple and Efficient Algorithm for Listing Permutation via Starter Set Method. *Malaysian Journal of Fundamental and Applied Sciences*. Vol 9, No 4. 191-195
43. Haslinda Ibrahim, Lugean Zake, Zurni Omar (2013). Permutation Generation Method on Evaluating Determinant of Matrices. *International Journal of Modern Mathematical Sciences*. Vol 7, No. 1. 12 – 25.

44. R. Ramli, M.I. Ghazali, H. Ibrahim, MM. KAsim F.M Kamal and S. Vikneswari. (2013). A HybridizedCompetency-Based Teacher Candidate Selection System. World Academy of Science, Engineering and Technology. Vol 77. 156 -160.
45. Abu Saa, T. M., Ibrahim, H., & Kalmoun, El M., (2012). Developing Algorithm for Triad Design. Journal of Applied Mathematics Letters. 25 1590-1585.
46. Abu Saa, T. M., Ibrahim, H., (2012). The Triad Design of Order 19. Journal of Applied Mathematics & Information Sciences. Vol 6 No. 2. 377-381.
47. Haslinda Ibrahim, Tareq Abu saa and El Mostafa Kalmoun, (2011). Some New Classes for Triad Design. Far East Journal of Mathematical Sciences Vol 48, No 2, pp 139 – 148.
48. Sharmila Karim, Haslinda Ibrahim & Zurni Omar. (2011). New division free algorithm for finding the determinant. Far East Journal of Mathematical Sciences. 1(1), pp. 43-55.
49. Maznah Mat Kassim, Haslinda Ibrahim and Mahmoud Salem Barakat. (2011) Multi-Criteria DecisionMaking Methods for Determining Computer Preference Index. Journal of ICT, Vol 10, 137- 148.
50. Sharmila Karim, Haslinda Ibrahim and Zurni Omar. (2011) New Scheme in Determining nth order diagrams for cross multiplication method via combinatorial approach. World Academy of Science, Engineering and Technology. Vol 5. 971-974.
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5. Rahela, Abdul Rahim, Haslinda Ibrahim, Fauziah Baharom, Mohd Rahizam Abdul Rahim, and Syahrul Ridhwan (2021). E-module ABRA-Maths - early mathematics learning via mini tennis International Exhibition & Symposium on Productivity, Innovation, Knowledge, Education & Design (i-SPIKe 2021). <https://ir.uitm.edu.my/id/eprint/56484/>
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24. Maizon Mohd Darus, Haslinda Ibrahim, Sharmila Karim, Zurni Omar, Nazihah Ahmad. (2013) Complete Graph K_4 Decomposition into Circuits of Length 4. Proceedings of the 20th National Symposium on Mathematical Sciences. Penang.
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Year: 2005
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Authors: Haslinda Ibrahim, Sharmila Karim, Maizon Mohd Darus.
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Page: 72
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Author: Haslinda Ibrahim
Publisher: UUM Press
Year: 2023
Page: 68
4. Title: Quantitative Models in Decision Making
Authors: Nazrina Aziz, Haslinda Ibrahim, Jafri Zulkepl
Publisher: UUM Press
Year: 2024
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5. Title: Innovative Teaching Practices in Learning STEM
Authors: Haslinda Ibrahim, Rahela Abdul Rahim
Publisher: UUM Press
Year: 2024
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6. Title: Mathematical Models For A Sustainable Society
Author: Saadi Ahmad, Haslinda Ibrahim, Nor Anis Nadhirah Md Nasir
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Year: 2025
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STEM MODULE

1. Title: A Bird's Eye View: Plot of Mathematical Problem-based Activity
Authors: Haslinda Ibrahim, Masnita Minisiran
Publisher: Universiti Utara Malaysia
ISBN: 9789672210023
Year: 2018
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2. Title: Lensa Kamera STEM: Alam Semulajadi dan Permainan
Authors: Haslinda Ibrahim, Nazihah Ahmad, Mohd Saiful Adli Mohamad, Wan Laailatul Hanim Mat Desa, Norhayati Yusof
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ISBN: 9789671643570
Year: 2019
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3. Title: Grow, Learn & Succeed: Aquaponics in STEM Classrooms
Authors: Haslinda Ibrahim, Naziah Ahmad, Muhammad Mat Yusof, Mohamad Farizal Rajemi
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1. A Heuristic Scale Decision Support System
Registration number: LY2017001903
Waleed Khalid Abduljabbar, Haslinda Ibrahim, Razamin Ramli, Syariza Abdul Rahman, Abdu Mohammed Ali Atta
2. A Conceptual Framework for Smooth Vehicle Diagnostics Services (v-diser)
Registration number: LY2018003190
Waleed Khalid Abduljabbar, Haslinda Ibrahim, Razamin Ramli, Syariza Abdul Rahman, Norazura Ahmad
3. i-SNAP Butterfly n! Elements
Registration number: LY2018000975
Haslinda Ibrahim, Sharmila Karim, Maizon Darus
4. In Seeking Algorithm for Distinct Threefold Triple System
Registration number: LY2019007871
Haslinda Ibrahim, Sharmila Karim
5. ExDiD Framework State-of-the-art Teaching and Learning
Registration number: LY2019007876
Haslinda Ibrahim, Masnita Misiran, Zahayu Md Yusof, Zakiah Zain
6. STEM4U: Community Outreach Program
Registration number: LY2020005484
Haslinda Ibrahim, Nazihah Ahmad, Mohd Saiful Adli Mohamad, Wan Laailatul Hanim Mat Desa, Masnita Misiran @ Bakun, Norhayati Yusof.
7. Star Cyclic Butterfly Triple Design Algorithm
Registration number: LY2020006562.
Haslinda Ibrahim, Sharmila Binti Karim, Raja'I Mohammad Falaah Aldiabat
8. Ezee DIY Aquaponics Design
Registration number: LY2021PO2887.
Muhammad Mat Yusof, Mohamad Farizal Rajemi, Haslinda Ibrahim, Nazihah Ahmad
9. SMART Aquaponics Sump Tank (SAST)
Registration number: LY2022P06327
Mohamad Farizal Rajemi, Muhammad Mat Yusof, Haslinda Ibrahim, Nazihah Ahmad
10. C.A.S.HED OUT
Registration number: LY2024PO1880
Kanageswari a/p Suppial Shanmugan, Nurliyana Bukhari, Fauziah Abdul Rahim, Haslinda Ibrahim
11. Mapping Patterns: Expedition through the Flip-Flop Combinatorial Landscape
Registration number: LY2024P01906
Haslinda Ibrahim, Sharmila Karim, Mohd Saiful Adli



EDITORIAL BOARD: JOURNAL

Journal of Mathematics Research, 2009 – present

International Journal of Modern Mathematical Sciences, 2013 – present

Mathematical Science Letters (Managing Editor), 2012 – present

Mathematical Reviews, American Mathematical Society, March 2017 – present

Journal of Information and Communication Technology -SCOPUS (Editorial board),
July 2017 – December 2022



EDITORIAL BOARD: PROCEEDINGS

Proceedings of the 1st Innovation and Analytics Conference & Exhibition(IACE)
2013. ISBN: 978-983-2078-84-5 (UUM Press).

Proceedings of the 3rd International Conference on Quantitative Sciences and Its
Applications. ISBN: 978-0-7354-1274-3. Editors: Haslinda Ibrahim, Jafri Zulkepli,
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Published: Dec 4, 2014

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Kamal Mohd Nawawi. Volume number 1905. Published 2017.

Proceedings of the 4th Innovation and Analytics Conference & Exhibition. ISBN:
978-0-7354-1881-3. Editors: Haslinda Ibrahim, Jafri Zulkepli, Nazrina Aziz & Abdul
Malek Yaakob. Volume Number: 2138. Published Date: Aug 21, 2019

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Carlota B. Decena, Abdul Malek Bin Yaakob, Sahubar Ali Mohamed Nadhar Khan,
and Josephine Bernadette M. Benjamin. Volume Number: 2472. Published Date:
Aug 2022





• • **WORKING EXPERIENCES** • •

2016 – present	Professor Universiti Utara Malaysia
2015 – 2017	Associate professor University of Bahrain, Kingdom of Bahrain
2009 – 2016	Associate professor Universiti Utara Malaysia
2004 – 2009	Senior lecturer, University Utara Malaysia
1996 – 2004	Lecturer, University Utara Malaysia
2000 – 2003	Teaching assistant, Southern Illinois University, USA
1994 – 1996	Teaching assistant, Indiana State University, USA
1993 – 1996	Tutor, University Utara Malaysia
1992 – 1993	Lecturer, Australian Matriculation in Trolak, Perak



• • **INTERNATIONAL VISITING SCHOLARS** • •

February 2015 – Jan 2017	University of Bahrain, Kingdom of Bahrain
November 4 – December 5, 2024	Tashkent International University of Financial Management and Technologies.(TIFT). Uzbekistan,



● SPEAKERS FOR INTERNATIONAL CONFERENCES/TALKS ●

1. An Expedition into Peripheral of Combinatorics. 9th UAE Math Day 2011. Ajman University of Science and Technology, April 9-10 2011.
2. Snappy Constructions for Triad Design Algorithms. 2nd International Conference on Applied Mathematics and Information Sciences. Sohag, Egypt. September 10-13 2011
3. Comparative Performance of Determinant Algorithms via a Novel Approach in Combinatorics. 2012 International Workshop on Information & Security. 30 – 31 August, 2012. South Korea University, Seoul Korea
4. On The Brims of Combinatorics: Design Theory. 2nd International Conference on Computer Engineering and Mathematical Sciences. 5th – 6th December 2013, Kuala Lumpur Malaysia
5. Nonisomorphism classes of Hamiltonian circuits in complete Graphs. 5th international conference on Applied Mathematics and Information Sciences. 5-7 February 2015 Zewail City of Science and Technology, Cairo, Egypt
6. State Of The Art Complete Graph Decomposition. The 9th International Conference on Numerical Optimization and Operations Research (ICNOOR-IX). 27th – 30th August 2018. Chiang Mai, Thailand
7. Creating a Symbiotic Relationship between Epistemology of Combinatorics and STEM Teaching Process. 23rd Asian Technology Conference in Mathematics. 20 – 24th November 2018. Yogyakarta State University.
8. Does Mathematics Matter? 24th Rev. Fr. Ciriaco Pendora, O.P. Memorial lecture, 29th November 2019 University Santo Tomas, Espania, Manila Philippines.
9. Visibility of Female Professor. Math Thinking Week and Women in Mathematics, September 6-10 2021, International Mathematics Master. International Centre for Theoretical Physics
10. Infusion of Combinatorial Theory in Developing a Butterfly-related Family and ExDiD Teaching Process. 3 November 2022, (Guest Lecture) Al Akhawayan University, Ifrane Maghribi.
11. Scenario-Based Problems. Leveraging Combinatorics for Inspired Designs. 28 – 30 August 2024. (Plenary Speaker) 12th International Conference on Numerical Optimization and Operations Research (ICNOOR – XII) Universitas Abulyatama, Aceh.
12. The Journey of Academic life: Navigating Academic Life. November 11, 2024. Tashkent International University of Financial Management and Technologies.(TIFT). Uzbekistan.
13. Explore, Discover & Develop (ExDiD): A Combinatorial Path to Problem Solving and Nature Inspired Design. 15 – 16 December 2024. (Plenary Speaker) International Conference on Mathematics and Its Applications in Science and Technology(ICMAST 2024), Setif 1, University Ferhat Abbas, Algeria.



ADMINISTRATIVE ROLES: UUM



Dean School of Quantitative Sciences – January 2024 – August 2025

Malaysian Research Assessment (MyRA) Evaluator for University Utara Malaysia – 2017 – 2023

Head of Education, Culture and Nation Building, Council of Professor, Universiti Utara Malaysia, May 2020 – April 2021

Panel Evaluator for Fundamental Research Grant Scheme, Universiti Utara Malaysia (National Grant), – 2013 – 2020

Chairperson, Innovation and Analytics Conference and Exhibition(IACE), (IACE 2013, IACE 2019, IACE2021, IACE 2025)

Head of Publication, Council of Professors, Universiti Utara Malaysia, March 2017 – December 2017

Head of Research, Publication and Commercialization, School of Quantitative Sciences, Universiti Utara Malaysia, February 2017 – December 2017

Chairperson, 13th IMT-GT International Conference on Mathematics, Statistics and Their Applications (ICMSA 2017). 4 – 7th December 2017, Universiti Utara Malaysia.

Head of Mathematics Department, Faculty of Quantitative Sciences, January 2014 - December 2014

Chairperson, 3rd International Conference on Quantitative Sciences and Its Applications (ICOQSIA 2014), 12 -14 August, Langkawi Kedah

Head of Research/Publication/Innovation, Faculty of Quantitative Sciences, July 2010 – February 2015

Vice chairperson, International Conference on Decision Making (IcDEM), 13-16 March, 2013, Universiti Utara Malaysia, Kedah

Head of Postgraduate Studies, Department of Mathematics, Faculty of Quantitative Sciences, January 2007 – December 2010

Head of Mathematics Department, Faculty of Quantitative Sciences, January 2007 – December 2007

Deputy Dean for Postgraduate and Research, Faculty of Quantitative Sciences, July 2004 – December 2006

Vice chairperson, National Mathematics Symposium, 2006 PERSAMA

Vice chairperson, Workshop on Enhancement of The Use of English in Teaching Mathematics and Science, 13 May 2007





• ADMINISTRATIVE ROLES: UNIVERSITY OF BAHRAIN •

Head of Strategic Planning, College of Arts and Sciences, University of Bahrain, January 2016 – January 2017

Head of Strategic Planning, Department of Mathematics, University of Bahrain, September 2015 – January 2017

Head of Senior Research Project, Department of Mathematics, University of Bahrain, September 2015 – January 2017

Coordinator for Business Mathematics, Department of Mathematics, September 2015 – September 2016.

Coordinator for Statistics and Probability for engineers, Department of Mathematics, September 2016 – January 2017.



FACILITATORS



Workshop for writing successful Fundamental research grant for faculty level, 2011, 2012, 2013, 2014

Workshop Course on Research Methodologies (Mathematical Sciences Method), UUM April 2006, April 2007, November 2007, April 2008

On Enhancement of The Use Of English In Teaching Mathematics and Science, 13 May 2007.

Workshop on Teaching Managerial Mathematics, 26 Jun 2006

How to design your web pages. 26-27 Jun 1997

Introduction to basic Java Programming. Ogos 1997. Mathematics Course Development Kubang Pasu Educational Department





FACILITATOR/ SPEAKERS FOR STEM

Workshop for “I C D’ Beauty in STEM” Sekolah Menengah Kebangsaan (SMK) Bandar Baru Darulaman, Jitra, Kedah. 14 November 2017. 30 Students from Bandar Baru Darulaman, Jitra, Kedah, SMK Bandar Baru Darulaman, SMK Tanjung Pauh, SMK Jitra dan SMK Darul Aman Height 1.

Workshop for “I C D’ Beauty in STEM” Sekolah Menengah Kebangsaan (SMK) Megat Dewa, Kodiang, Kedah. 25 July 2018. Karnival Eksplorasi STEM Dan Larian PIDA, Peringkat Negeri Kedah.

Talk on “STEM”. 29 September 2018. Seminar Aspirasi Gemilang STEM Sains Daerah Kubang Pasu, UUM. Organizer: Jabatan Pendidikan Negeri Kedah.

Talk on “Interaktif Pembelajaran STEM” 29 October 2018, Dewan Seminar School Of Quantitative Sciences, UUM. Organizer: Jabatan Pendidikan Negeri Kedah.

Workshop on STEM Camp: The Campside Adventure Route 007. 29 October 2018. 30 Students from 10 Schools. Organizer: Jabatan Pendidikan Negeri Kedah.

Workshop for “Meneroka STEM Melalui Alam Semula Jadi dan Permainan” 12 September 2019. Dewan Seminar School Of Quantitative Sciences Organizer: School of Quantitative Sciences dan Jabatan Pendidikan Negeri Kedah

Workshop “IC STEM: Innovation and Creativity in STEM – Skills for the future” 29 November 2022. School of Quantitative Sciences dan National STEM Association



● WORKSHOP/ TRAINING FOR TEACHING & LEARNING ●

Master trainer for Inspirational Academician Program, UUM 2021 – present.

The Science of Teaching: Why Style Matters in Meaningful Learning – 5 May 2025. UUM

A Sharing Session on Developing a Teaching Portfolio: Documenting your Journey as an Educator. 19 Mac 2025. UUM

Workshop My Best Alternative Assessment - 8 - 9 September 2024. UUM.

Workshop Inspirational Academician Programme - 29 - 30 May 2023. UUM.

Sharing Session with the Winner Of Anugerah Khas YBMenteri Pendidikan Malaysia: Rekabentuk Kurikulum Dan Penyampaian Inovatif (AKRI), 11 March 2022, organized by Centre For Professional Development. USIM

Workshop: Designing Meaningful Teaching Style and Content Delivery. 22th April 2022. Politeknik Tuanku Syed Sirajuddin. Perlis.

Sharing Session Anugerah Khas YBMenteri Pendidikan Malaysia: Rekabentuk Kurikulum Dan Penyampaian Inovatif (AKRI), 25 Julai 2022, organized by Pusat Kecemerlangan dan Keserjanaan Akademik. UTeM

Taklimat Inovasi Pengajaran, 23 March 2022, Organized by UTLC UUM

PENCERAMAH KURSUS PENSIJILAN KOMPETENSI STAF AKADEMIK (KUPKSA) KEPADA PENSYARAH KOLEJ UNIVERSITI ISLAM PERLIS (KUIPs) – Planning Effective Instruction: Design Teaching & Learning Activities 2 – 24 August 2021

ExDiD - ICTeA (Innovative & Creativity Teaching Activity, UUM 18-19 August 2021)

Taklimat Anugerah Inovasi Pengajaran (ITA) 2021 Dan Anugerah Khas YBMenteri Pendidikan Malaysia: Rekabentuk Kurikulum Dan Penyampaian Inovatif (AKRI), 30 June 2021, organized by UTLC UUM.

Sharing session: Transformative Teaching. 25th February 2021, Organized by UIA

Tips Penulisan Buku Akademik. 9th March 2021, Organized by UUM

Sembang Santai Geran SOTL. 23rd March 2021, Organized by School of Quantitative Sciences, UUM

ALTERNATIVE ASSESSMENT SERIES 2: MY BEST ALTERNATIVE ASSESSMENT PRACTICES (MY BESTIES), 16 August 2020. Organized by UTLC UUM

Explore, Discover, Develop (ExDiD): Emerging Perspectives on Teaching and Learning. 16th August 2020, organized by UTLC UUM.

Sharing Session: Roadmap to AKRI. Webinar talk. 20th April 2020, organized by UTLC UUM.





TEACHING: POSTGRADUATE



Operation Research

Decision Analysis



TEACHING: UNDERGRADUATE



Mathematics for Management

Mathematics I

Mathematics II

Calculus I

Calculus II

Linear Algebra

Discrete Mathematics

Contemporary Mathematics

Fundamental of Business Mathematics

Business Mathematics

Differential Mathematics

Graphic Design Technique

Introduction to Statistics

Statistics and Probability for engineers.



SUPERVISION: PHD

1. Raja'l Mohammad Falah Aldiabat, Butterfly Triple System (2020), Triad Design and Cycle Triple Designs Associated Cyclic Triple Systems
2. Mowafaq Omar Abed Alhameed Al-Qadri (2019), Combinatorial Design of Cyclic Cycle Factorization and Related Cyclic Triple Systems.
3. Khaled Ahmad Mohammad Matarneh (2019), Decomposition of Complete Graph into Simple Cyclic Triangle Design for $v \equiv 0 \pmod{4}$.
4. Eman F. Mohommed (2017), A Family of Classes in Nested Chain Abacus and Related Generating Function
5. Ghassan Omar Mahmoud Malkawi (2015), Solving Fuzzy and Fully Fuzzy Linear System for Real and complex Numbers.
6. Sharmila Karim (2012). Developing New Sequential And Parallel Division Free Methods For Finding The Determinant Of Matrices.
7. Lugen M. Zake (2011). A New Method for Evaluating Determinant
8. Tareq Mohammad Naji Abu Saa (2011), Generalized Triad Design Algorithms

SUPERVISION: MASTER

1. Wan Hanisah Hassan. (2005). Aplikasi Proses Hierarki Analysis Bagi Menentukan Faktor-faktor Peryertaan Graduan Dalam Tentera Darat Malaysia. – Cosupervisor
2. Faridah Zulkipli. 2006 – 2007. On A Particular Conference Scheduling Via Goal Programming. - Main Supervisor
3. Mahmoud Salem Barakat Bataineh. 2008 – 2009. A Multi Criteria Approach For Computer Purchase Among International Graduate Students – Cosupervisor
4. Lim Tze Shung. July 2005. A Genetic Algorithm for Manpower Scheduling. Cosupervisor
5. Soong Cai Juan. 2006. A Heuristic Approach to Sport scheduling system. Cosupervisor
6. Syafawati. 2010. Faculty Planning Model: Modeling Faculty Flow. Cosupervisor.
7. Farah Adiba Adnan. 2010. A Markov Chain Method in Modeling the Postgraduate Students' Flow. Main Supervisor.
8. Maizon binti Mohd Darus . 2015 – Decomposition of complete Graphs. Main supervisor
9. Chan Yeen Chia. 2016 – Entanglement in nanoresanators. Main Supervisor



● ● ● **THESIS EXAMINER: EXTERNAL** ● ● ●

1. PhD, UTM: Nabilah Najmuddin (2020). Graph Polynimial Associated to Some Graphs Of Certain Finite Nonabelian Groups
2. MSc, UTM: Muhammad Zillullah Mukaram (2019). Graph of Pseudo degree zero generated by sequence of FTTM.
3. MSc, Beni-Suef, Faculty of Science, Egypt: Rabie Ibrahim Mohamed (2018). Numerical Simulation for Some Quantum Information Models.
4. PhD, UTM: Rabiha Mahmoud Birkia (2018). Energy of Some Graphs Associate to Some Finite Groups
5. PhD, UTM: Shamsatun Nahar Ahmad (2015). Hybrid Resultant Matrix algorithm Based on the Sylvester Formulation.
6. PhD, UTM: Mohd Sayed El Rahman Elsafi (2014). Combinatorial Analysis of Polygonal Sequence of Fuzzy Topographic Topological Mapping.
7. PhD, UKM: Yanita (2013), Penghitungan Penjana Modul Homotopi Kedua Dengan Menggunakan Teknik Penjelmaan.
8. PhD, UKM: Sim Siaw Wei (2012), Sifat Nirsfera dan Cockcroft untuk persembahan monoid.
9. PhD, UKM: Yousof Gheisari (2011), Lift of 2-complexes from Diagram Groups over the Semigroup Presentations of Integers.



● ● ● **THESIS EXAMINER: INTERNAL** ● ● ●

1. PhD, UUM: Malik Saad Al-Muhja (2021). Best weighted Approximation and Its Degree for Co(Convex) and Unconstrained Polynimials.
2. PhD, UUM: Baravan Abdulmuhsen(2014). Gamma-Ps-Operation in Topological Space
3. MSc, UUM: Noridayu Mah Hashim (2011), Estimating monthly temperature in Peninsular Malaysia using interpolation techniques.
4. MSc, UUM: Vikneswari Subramaniam (2008): Competency-based Candidate Selection Model for Teacher Training Program.
5. MSc, UUM: Chuah Chin Keat (2006): Critical Success in Financial Services Outsourcing through an Effective Staggered Hour Staffing Model.

