

K. D. Eranda Dhananjaya

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(a) Education & Training

University of Peradeniya	Special degree in Mathematics	First Class	2011-2015
National Chung Hsing University	Master in Mathematics	GPA 4.3	2019-2021

(b) Professional Experience

2017 – present	Lecturer(Probationary), Department of Mathematics, University of Peradeniya.
2016 – 2017	Visiting Lecturer , Open University, Sri Lanka.
2016 – 2017	Visiting Lecturer, American College, Kurunegala, Sri Lanka.
2016 – 2017	Visiting Lecturer, First Friend campus, Kandy, Sri Lanka.
2016 – 2017	Temporary Lecturer, Department of Mathematics, University of Peradeniya.
2015 – 2016	Temporary Tutor, Department of Mathematics, University of Peradeniya

(c) Awards

Award of Academic Excellence, University of Peradeniya in 2015.

(d) Teaching areas

Graph Theory, Combinatorics, Numerical Analysis, Differential Equation, Convex Analysis, Complex Analysis, Real Analysis, Abstract Algebra.

(e) Mathematics software skills

Geogebra, MATLAB, TORA.

(f) Research interest

Graph Labeling, Graph Coloring, Analysis, Algebra.

(g) Publications***Abstracts***

1. **K. D. E Dhananjaya**, W. V. Nishadi, and A. A. I. Perera, “An Algorithm to Construct Factors of a Complete Graph of Even number of Vertices”, Peradeniya University International Research Sessions- iPURSE (2017).
2. J. W. E. W. De Silva, **K. D. E Dhananjaya** and J. A. Weliwita, “A NUMERICAL STUDY ON VISCOUS FLOW PAST TWO ADJACENT. ELLIPTIC CYLINDERS”, Peradeniya University International Research Sessions- iPURSE (2017).
3. **K. D. E Dhananjaya** and A. A. I. Perera, "Formation of cyclic graph using Hadamard matrix", Peradeniya University International Research Sessions- iPURSE (2018).

4. **K. D. E Dhananjaya** and P. G. R. S. Ranasinghe, "An algorithm to construct Pierce continued fractions", International Conference on Mathematics and Mathematics Education-ICMME(2019).
5. **K. D. E Dhananjaya**, " λ - generalized contraction mapping theorem" ,International Conference on Mathematics and Mathematics Education-ICMME(2019).
6. M. D. M. C. P. Weeraratna, D.M.T.B. Dissanayake, D. G. S. D. Dehigama, **K. D. E Dhananjaya**, and A. A. I. Perera, " k -Factors of k -Factorization of $K_{2,2,2,\dots,2}$ with n -Partite Sets for $k = 1, 2$ and $n \geq 2$ ", Postgraduate Institute of Science Research Congress (PGIS RESCON), University of Peradeniya(2019).
7. M. D. M. C. P. Weeraratna, D. G. S. D. Dehigama, D. M. T. B. Dissanayake, **K. D. E Dhananjaya**, and A. A. I. Perera, "Prime Labeling of the Roach Graph", Postgraduate Institute of Science Research Congress (PGIS RESCON), University of Peradeniya(2019).
8. M. D. M. C. P. Weeraratna, D. M. T. B. Dissanayake, T. R. D. S. M. Thennakoon, **K. D. E Dhananjaya**, and A. A. I. Perera, "Prime Labeling of the Centerless Double Wheel Graphs (CDW_{2n})", Postgraduate Institute of Science Research Congress (PGIS RESCON), University of Peradeniya(2020).

Journal papers

1. W. V. Nishadi, **K. D. E Dhananjaya**, A. A. I. Perera, and D. Uththamawadu, "An Algorithm to Construct Symmetric Latin Squares of Order q^n for $q \geq 2$ and $n \geq 1$, American Journal of Engineering Research (AJER)(2017), Volume-6, Issue-2:pp. 42-50.
2. M. N. F. Sumaiya, W. V. Nishadi, **K. D. E Dhananjaya**, A. A. I. Perera, and D. Uththamawadu, "Generation of Complete Bipartite Graphs Using Normalized Hadamard Matrices" Elixir International Journal, Elixir Appl. Math(2017), Volume-113, pp. 49269-49271.
3. W. V. Nishadi, **K. D. E Dhananjaya**, A. A. I. Perera, and P. Gunathilake, "Generation of strongly regular graphs from quaternary complex Hadamard matrices", Ceylon Journal of Science(2018), Volume-47, pp. 65-68.
4. W. V. Nishadi, **K. D. E Dhananjaya**, A. A. I. Perera, and P. Gunathilake, "Formation of Complete Bipartite Graphs Using Quaternary Complex Hadamard Matrices", International Journal of Precious Engineering Research and Applications (IJPERA)(2018), Volume 3, Issue 1, pp. 37-40.
5. W. V. Nishadi, **K. D. E Dhananjaya**, A. A. I. Perera, and P. Gunathilake, "A recurrence relation to construct 1-factors of complete graphs", Elixir Appl. Math(2018), Volume-117, pp. 50454-50457.
6. D. M. T. B. Dissanayake, R. A. S. T. Abeysekara, **K. D. E Dhananjaya**, A. A. I. Perera, and P. G. R. S. Ranasinghe, "Prime Labeling of Complete Tripartite Graphs of the Form $K_{1,m,n}$ ", Elixir Appl. Math(2019), Volume-130, pp. 53092-53094.
7. M. D. M. C. P. Weeraratna, D. M. T. B. Dissanayake, W. V. Nishadi, **K. D. E Dhananjaya**, T. R. D. S. M. Thennakoon, and A. A. I. Perera. Consecutive Cyclic k - Prime Labeling of a Ladder Graph and Its Application to Crab Graph, Iconic Research and Engineering Journal(2020), Vol. 3, Issue 11, pp. 278-283.

8. **K. D. E Dhananjaya**, W. T. Li, Antimagic labeling of forests with sets of consecutive integers, Discrete Applied Mathematics(submitted).

(h) Non-related referees

Professor Wei Tian Li,
Department of Applied Mathematics,
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I assure you that the above information furnished by me is true and accurate to the best of my knowledge.

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