SUPERVISION OF POSTGRADUATE WORK:

1. **Ph. D.** Ms. M. K. Anuradha Ariyaratne (Joint Supervisor with Dr. T. G. I Fernando), Firefly Algorithm based self-tuning algorithm to solve systems of nonlinear equations, **November 2018**
2. **M.Phil.** Ms Sagari Deepa Lanka Geeganage (Joint Supervisor with Mr P Dias), Estimating the Mixing Proportions and Parameters of a Mixture of Exponential Models, **Dec. 1997**
3. **M.Phil.** Mr. H K G de Z Amarasekera (Joint Supervisor with Dr G K Watugala), Determination of Zeros using Finite difference Newton's method in the absence of the closed form of the function, **July 1999**
4. **M.Sc.** Mr T G I Fernando (Joint Supervisor with Dr G K Watugala & Ms G S Makalanda), Improved Newton's Method for Solving Non-linear Equations, **May 1998**
5. **M.Sc**. Mr Pasdunkorale Arachchige Jayantha (Joint Supervisor with Dr G K Watugala & Prof. D
   A Tantrigoda), Direct Resistance Heating of a Circular Sheet Metal, **May 1998**
6. **M.Sc.** Mr Mahinda B. Herath (Jointly with Dr. J.A.K.S. Jayasinghe & Mr. E A T Edirisooriya), Study of Network Adaptive Routing for Circuit Switched Networks, **May 1998**
7. **M.Sc.** Mr. U Angammana (Joint Supervisor with Dr W C W Perera & Dr B M S G Banneheka) Population Growth, Birth & Death Rates in Sri Lanka, **April 2000**
8. **M.Sc.** Mr. P .P. J. Fernando (Joint Supervisor with Dr G K Watugala & Dr. Nalin Ranasighe) Rrecognition of Sinhala Speech by a Signal Processing Approach via Wavelets as an alternative to Statistical Method using Phonemes. **April 2000**
9. **M.Sc.** P. S. Panawennege (Joint Supervisor with Prof. G. T. F. de Silva & Mr. Wijesinghe) Improving Currently Used Techniques for the Prediction of Electric Field Strength in Coverage Area of a VHF Broadcast Transmission, **April 2000**
10. **M.Sc.** Mr. G H J Lanel, Gaussian Quadrature Newton's method for finding roots of nonlinear equations. **November 2002**
11. **M.Sc**. Ms. A. Tennkoon (Jointly with S Basnayaka & M K N Siriwardene) Storm Surge Forecasting. **December 2003**
12. **M. Sc.** Ms. M. B. Y. Perera, (Jointly with D A Gamini) An optimal production process to maximize profit based on data from a factory producing orthodox tea. **October 2008**
13. **M. Sc**. Ms. DMKN Seneviratna, (Jointly with, Lanel GHJ and MenakaLiyanage) Traveling Tourist Problem for Selected Destinations in Sri Lanka; **(2012)**
14. **M. Sc.** Ms. H P S Nishani, (Jointly with TGI Fernando & L M Liyanage) Improved Newton's method for systems of nonlinear equations **(April 2015)**

15. **M. Sc.** Mr. Uhanovitage Nilantha Indrajith Priyadarshana, Easy and effective rescheduling of train timetable for Sri Lanka Raillways (2015) (with R Sanjewa) **(April 2015)**
16. **M. Sc.** Ms. Ganesha Kalyani Thondilege (2015), Investigation of the possibilities of multispecies sharing the same cage at the national zoological gardens. (with G H J Lanel) **(April 2015)**
17. **PG.Dip.** Mr. Balamurari, (Joint Supervisor with Prof. H G Nandadasa & Mr. P. Dias) Probabilistic Study of Population Genetics using Hardy - Weinberg Law, **April 2000**
18. **PG.Dip.** D. A. Rohana (Joint Supervisor with Dr. Amal Kumarage & Mr. P. Dias; A Mathematical Model Based on Road Accidents in Sri Lanka, **April 2000**
19. **PG.Dip.** Mr Sabapathy Krishnakumar (Jointly with Dr G K Watugala & Dr M L Liyanage), Adaptive Stepsize Control in Numerical Analysis in Solving Initial Value Problems, **May 1998**
20. **PG.Dip.** Mr. B. W. K. N. Dissanayake (Jointly with Mr P Dias and Dr B M S G Banneheka, Study of the Mortality Experience in Sri Lankan Insurance Companies, **May 1998)**
21. **PG.Dip.** Ms. Y K Amarasena (Joint Supervisor with Mr. H L Premaratna & Mr P Dias), Performance of Database Access (**August 1997)**
22. **PG.Dip.** Ms. P R R D Peramuna (Joint Supervisor with Mr. H L Premaratna & Mr E A T A. Edirisooriya) Inventory Control System for Atlas Plastics (Pvt.) Ltd. (**August 1997)**
23. **PG.Dip.** Ms A G C Seneviratne (Jointly with Dr. W L Sumathipala & Mr P Dias) Annual and Seasonal Trends Rainfall in Sri Lanka (August 1997)
24. **PG.Dip.** R A S P Ranaweera Computer based management system for Goods and Services tax administration in Sri Lanka (June 1999).
25. **PG.Dip.** A A. P. Liyanage (Joint Supervisor with C J Rajapaksha & P. Dias) A Partial Solution to ease up traffic congestion in Nugegoda metropolitan Area, **July 2002**
26. **PG.Dip.** Ms. V. Abeygunawardene – Influence of Repair & Maintenance procedure on the efficiency & productivity of the University and suggestions for improvement.

SPECIAL DEGREE IN MATHEMATICS) FINAL YEAR PROJECTS SUPERVISION

27. Mr B M S G Banneheka**,** Study of Numerical Methods for Non-linear Equations (1985/86)
28. Ms K C N Shanthidevi, Survey of Numerical Methods in Solving Systems of Linear Equations (1985/86)
29. Ms L M Lelwela, A survey of Numerical Schemes for Solving Ordinary Differential Equations, (1986/87)
30. Mr R K Nihal**,** A Survey of Polynomial Interpolation Methods (1986/87)

31. Mr E A T A Edirisooriya, A Survey of Numerical Methods in Solving Partial Differential Equations (1989/90)
32. Mr Kapila Alwis, Optimal Stepsize Control for Numerical Algorithms (89/90)
33. Mr Marcus Brinsden - **Curtin Univ.**, Perth, Australia, A Survey of Transform Methods in Solving Partial Differential Equations (92/93)
34. Mr M K Chinthaka Gunadasa, Finite Difference Techniques for Partial Differential Equations (Dec1994)
35. Mr H K G de Z Amarasekera**,** Testing Finite Difference Newton's Method in Two Dimensions 1995/96)
36. Ms K A D T Kulawansa, Numerical Integration Methods (1998)86.11. Ms. H. V. Vidanagamage, Numerical Methods to Find Eigenvalues of a Matrix (2000)
37. Mr. Abeysinghe , Difference Methods in Numerical Analysiis
38. Ms. P A N D Perera, Function Approximation Methods (2002)
39. Ms. H I B Soysa, A study of Fenchel conjugate of convex functions (2002)
40. Ms. R A S S Ranasighe, Analysis of Income and Expenditure of fee-paid Postgraduate programs conducted at the University of Sri Jayewardenepura (2007)
41. Ms. Imanthika Ranaweera, Infinite Products (with Mr. G J K Silva) (2007)
42. Mr. Dilum de Silva, Music & Mathematics (with Dr. L M L Liyanage) (2008)
43. Ms. Dayani Perera, Understanding the framework of Mathematical modelling, (with N C Ganegoda) (2009)
44. Ms. Lakmali Salgado, Degree reduction in Bezier curves (2009) (with T G I Fernando)
45. Mr. C P Chandima Peiris, Review of the citations of the research paper: A variant of Newton's method with accelerated third-order convergence. (2011)
46. Mr. C. B. D. Hewa, Invertibility of the Modified Buffon Transformation Matrix (2011)
47. Mr. N. Chathuranga Vidanage, Analysis of the University of Sri Jayewardenepura students' academic performance according to gender and the Z-score at the Advanced level (with B M S G Banneheka) (2012)
48. Ms. Piyumi Madhubhashini Welitharage, Teaching Calculus in Sinhala using Audio visual techniques. (with Gayan Jayasinghe) (2013)
49. Ms. Chalani Eshani, Using Audio Visual Technology in Learning A/L Mathematics in Sinhala (Yr 12 AM), (with G J K Silva) (2014)
50. Ms. Hiruni Pallage Using Audio Visual Technology in Learning A/L Mathematics in Sinhala (Yr 12 PM) (with L Menaka Liyanage) (2014)

51. Mr. Pahan Kariyawasam, Preventive maintenance schedule for Rubber Tyred Gantry Cranes In ZPMC LANKA (PVT) Ltd., (with R Sanjeewa) (2014)
52. Ms. Chathurika S Abeykoon; Using Audio Visual Technology in Learning A/L Mathematics in Sinhala (Yr 13 PM) (with G J K Silva) (2015)
53. Mr. Madhusha Lakshan; Using Audio Visual Technology in Learning A/L Mathematics in Sinhala (Yr 13 AM) (with G J K Silva) (2015)
54. Ms. L M Asha Madhuwanthi, A Study of students' performance at Engineering and Physical Science undergraduate degree programs (with Chitraka Wickramarachchi) (2016)
55. Shadi Heenatigala, Search for an Efficient Algorithm without the derivatives to numerically solve nonlinear equations (with T G I Fernando) (2016)