

1.1. Ph.D., M.Phil. and M.Sc. Degrees Awarded

Ph.D. DEGREES AWARDED

Degree Awardee	Title of Thesis	Supervisor(s)
Biochemistry and Molecular Biology		
1. W T R Perera	Investigation of the effect of fluoride, water hardness, glyphosate, dehydration, manganese and mercury for chronic kidney disease of unknown etiology (CKDu) on animal models	Prof. J G S Ranasinghe Prof. N Alles Prof. R Waduge
Earth Sciences		
2. W M C M Wijesinghe	Clinico-epidemiological and spatio-temporal characteristics of dengue in a high-risk area: a case study in Mawanella, Sri Lanka	Dr. A A J K Gunathilaka Dr. P H D Kusumawathi Prof. F Noordeen
Physics		
3. T Jaseetharan	Synthesis and characterization of cadmium sulphide and lead sulphide semiconductor quantum dots and their applications in solar cells and infrared detectors	Prof. M A K L Dissanayake Prof. G K R Senadeera
4. N U Senarath Yapa	Investigation of spin reorientation of ferromagnetic thin films using modified third order perturbed Heisenberg-Hamiltonian	Dr. P Samarasekara
Plant Sciences		
5. M M A W P Mudannayake	Morphological and genetic diversity of Sri Lankan cycads (cycadaceae) and nutritional properties of their seeds	Dr. G A D Perera Prof. S D S S Sooriyapathirana Prof. P Samaraweera
6. M P T Wijewickrama	Investigation on ecological and socio-economic impacts of <i>Bambusa bambos</i> (L.) Voss: a case study from intermediate zone forests at Moragahakanda area, Sri Lanka	Dr. H M S P Madawala Dr. D S A Wijesundara Dr. W A I P Karunaratne

MPhil DEGREES AWARDED

Degree Awardee	Title of Thesis	Supervisor(s)
Biochemistry and Molecular Biology		

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|----|-------------------------|--|---|
| 1. | B S A T H
Sudasinghe | Systematics and phylogenetic relationships of the family cyprinidae: danioninae in Sri Lanka | Prof. M Meegaskumbura
Prof. S Rajapaksha
Mr. R Petiyagoda |
|----|-------------------------|--|---|

Chemical Sciences

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|----|-----------------------|---|----------------------|
| 2. | W A K M
Gunasekara | Isolation and potential applications of cellulose from sugarcane bagasse discarded as a waste biomass | Dr. M Y U Ganehenage |
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Plant Sciences

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|----|-----------------------|--|--|
| 3. | A A C B Alahakoon | Development of a seed vigor testing protocol for popular rice varieties of Sri Lanka and maintenance of high seed vigor during storage | Dr. N S Gamaarachchige
Dr. D S D Z
Abeywardena
Dr. J W Damunupola |
| 4. | W A D D
Wasalamuni | Soil carbon sequestration potential of home gardens in Sri Lanka: as a way to mitigate global warming | Dr. A M T A Gunaratne
Dr. R Rathnayake |
| 5. | N G D N Nikagolla | Efficacy of soluble silicon in extending the keeping quality and enhancing fruit resistance to anthracnose and crown rot of banana | Dr. W A M Daundasekara
Prof. M Y U Ganehenege |
| 6. | S K Jayasekara | Microbial cellulases: the potential application in biofuel production, textile industry and agriculture | Dr. R R Rathnayake
Dr. C L Abayasekara |

Statistics & Computer Science

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|----|--------------|---|--|
| 7. | B V Lakshman | Agent compatible item response theory model and a clustering mechanism for e learning | Dr. J Wijekulasooriya
Dr. M Sandirigama |
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Zoological Sciences

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| 8. | D P Bopearachchi | Molecular phylogeny and systematics of three jumping spider tribes (araneae : salticidae) of Sri Lanka | Prof. S P Benjamin
Prof. I Karunaratne |
| 9. | W M G A S T B
Wijetunga | Impact of tropical forest fragmentation on figs and wasp pollinator interactions | Dr. W A I P Karunaratne
Dr. A M T A Gunaratne |
| 10. | C S Munasinghe | Association between coral bleaching and diversity of reef fish communities in the bar reef marine sanctuary, Kalpitiya, Sri Lanka | Dr. S K Yatigammana
Mr. W M C S Wijesundara |

MSc DEGREES AWARDED (SLQF Level 10)

Degree Awardee

Title of Thesis

Supervisor(s)

Computer Science

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|----|-----------------|---|-----------------------|
| 1. | M D Weerasinghe | Gatum: A Java based RESTful API for calculating average collision cross sections of molecules | Dr. L C Menikarachchi |
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Environmental Science

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|----|-----------------------------|---|---|
| 2. | M S Jayathilaka | Impact of laws and regulation on industries for water quality variation in Maha Oya | Prof. G B B Herath
Dr. T W A W
Wijayasinghe |
| 3. | K N M H H
Kosgahakumbura | Impacts of associated anions on lead uptake by Pistia stratiotes and Salvinia molesta: a new perspective for phytoremediation | Prof. C V Hettiarachchi
Prof. S Madawala |
| 4. | T A K L Thalangama | Investigation of the effect of plant growth on heavy metal removal in floating macrophyte systems | Prof. M I M Mowjood
Dr. P B Weerakoon |
| 5. | R M V N Gunarathne | Hydrometallurgical extraction of hazardous heavy metals from industrial sludge | Dr. M Vithanage
Dr. A U Rajapaksha |
| 6. | A A A Rahiman | Engineered clay-biochar composite for trapping antibiotic ciprofloxacin from aqueous media | Dr. M Vithanage |

MSc DEGREES AWARDED (Old Syllabus)

	Degree Awardee	Title of Project Report	Supervisor(s)
Analytical Chemistry			
7.	Y K L N K Yatiwella	Evaluation of the performances of conventional water treatment process & selecting the best coagulant for Mahaweli river water	Ms. D Illangagedara Prof. A N Navaratne
8.	S S Achintha	Removal of Cd (II) ions from aqueous solutions by barnacle exoskeleton material as an adsorbent	Prof. H M D N Priyantha
9.	N P N R Kumarachchi	Trends in encapsulation capacity of dendrimers with varying core-functionality and generation	Dr. R J K U Ranathunga
Applied Epidemiology			
10.	N D W Karunarathna	Survey on probable arsenicosis in Mannar: a pilot study	Dr. S Fonseka Prof. R Chandrajith
11.	K P L Gunaratne	Short-term neonatal outcome in late preterm	Prof. S Dharmarathne

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| | | deliveries in Teaching Hospital Peradeniya | Dr. S Bandara |
| 12. | J Thanushanthan | An assessment on clinical trials registered with the Sri Lanka Clinical Trials Registry (SLCTR) analysis of ten years data (2007-2016) | Dr. K Pethiyagoda |
| 13. | W M A U K Wijesinghe | Assessment of sexual and reproductive knowledge and attitude among advanced level state school students in Kurunegala Municipal Council area | Dr. S Tennakoon |

Applied Statistics

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|-----|--------------------|--|--------------------|
| 14. | D M R W Divisekara | Forecasting the global market prices of major financial instruments using Arima and Garch models | Dr. L S Nawarathne |
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Biodiversity, Ecotourism and Environmental Management

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|-----|---------------------|---|--|
| 15. | B D Jayathilaka | Ecotourism potentials of Munnakkare Conservation Reserve, Negombo, Sri Lanka | Mr. C Wijesundara |
| 16. | D P T R Wijewardana | The study of ecotourism potential of the Madunagala area in Hambanthota district to develop as an ecotourism destination | Dr. A Gunawardane
Prof. S K Yatigammana |
| 17. | K V M Ariyasena | Ecotourism promotion plan to enhance the sustainable livelihood of rural communities living around Minneriya National Park, Sri Lanka | Dr. A M T A Gunaratne |
| 18. | K Y Gunasinghe | Study on the current tourism trend and potential of introducing ecotourism to the Ella Divisional Secretariat in Badulla District | Prof. S K Yatigammana
Dr. A Gunawardana |

Clinical Biochemistry

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|-----|----------------------|---|---|
| 19. | M K A DE Zoysa | Plasma parathyroid hormone (pth) reference intervals in an apparently healthy employed Sri Lankans in Western Province | Prof. R Sivakanesan
Dr. G Katulanda |
| 20. | J M S Jayaweera | The effect of excessive concentration of dipotassium ethylene diamine tetraacetic acid anticoagulant on complete blood count | Dr. G U S Wijesekara
Prof. R Sivakanesan |
| 21. | M B M R D T Marapana | The correlation between salivary and serum creatinine levels among chronic kidney disease patients of unknown etiology (CKDu) in Anuradhapura District, Sri Lanka | Prof. R Sivakanesan
Dr. J M K B Jayasekara |

Disaster Management

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|-----|-----------------|---|---|
| 22. | H A S Jisantha | Knowledge and attitude of stakeholders for dengue mitigation and association of socio economic factors | Dr. A A J K Gunathilake
Dr. K Perera |
| 23. | K K R Thanushan | Study on surface and groundwater contamination at Kodikamam North of Jaffna | Dr. A A J K Gunathilake
Dr. A Wijenayake |
| 24. | N Pirasanth | Knowledge and practices on disaster preparedness among allied health professionals at Teaching Hospital, Jaffna | Dr. S T Sarma
Dr. P A D Coonghe |

Engineering Geology and Hydrogeology

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|-----|---------------------|---|---|
| 25. | E I Jayasekara | A study on triggering mechanism of shallow landslides: a case study from Bulathsinhala, Sri Lanka | Dr. A A J K Gunathilake
Dr. H A G Jayathissa |
| 26. | D M L P Dassanayake | Incorporation of engineering geological measures into an engineering design - a case study of Kokmaduwa landslide mitigation, Sri Lanka | Mr. K N Bandara
Dr. A A J K Gunathilake |
| 27. | J M Hettiarachchi | Evaluation of mitigation measures of landslide using monitoring instrument data; a case study on Udamadura landslide | Mr. K N Bandara
Dr. A A J K Gunathilake |
| 28. | K G N Saroja | Contribution of geology and soil properties for the mechanism of landslides: a case study from Morawakkanda landslide in Sri Lanka | Dr. A A J K Gunathilake
Mr. C S Menikpura |
| 29. | P D M Arachchi | Sand potentials in the ancient Walawe river course in Ambalantota area, Sri Lanka | Dr. A A J K Gunathilake
Mr. U De Silva |

Environmental Science

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|-----|---------------------|--|---|
| 30. | W A M N S Dhanapala | Conservation importance of flora in tropical lowland wet evergreen forest fragment at Halgolla, Sri Lanka | Dr. A M T A Gunaratne |
| 31. | S Umasuthan | Relationship of water quality to avifaunal diversity in selected freshwater bodies in the Kilinochchi District, Sri Lanka | Mr. C Wijesundara |
| 32. | A Sivasingham | Comparison of insect diversity on selected invasive and native plant species in the Jaffna Peninsula, Sri Lanka | Mr. C Wijesundara |
| 33. | A B N Withanage | Monitoring of water quality and bacteriological parameters in the Rahas-Ella catchment before and after water treatment | Prof. R Weerasooriya
Dr. P W H K P Daulagala |
| 34. | D S M Weththasingha | Developing a coastal sediment dynamic model for Sri Lanka | Prof. N Ratnayake
Dr. A S Ratnayake |
| 35. | A M T I Amandakoon | Comparative study on determination of water quality using physicochemical parameters and benthic macroinvertebrates of Sarasavi Oya, University of Peradeniya, Sri Lanka | Dr. A C A Jayasundara |

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|-----|---------------------------|---|---|
| 36. | H K I C Hapuarachchi | Urban lake water quality: a case study in Kurunegala lake | Dr. K B S N Jinadasa
Prof. M I M Mowjood |
| 37. | R M K Ratnayake | Estimating the carbon footprint of the University of Peradeniya for year 2014 | Dr. D G G P Karunaratne |
| 38. | M S
Weerasooriyagedara | Adsorptive removal of antibiotic oxytetracycline hydrochloride using biochar montmorillonite clay composite | Dr. M Vithanage |

Experimental Biotechnology

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| 39. | H Varnakulasingham | Evaluation of mice incisional wound healing with probiotic therapy and contraction of muscle panniculus carnosus | Dr. M G Thammitiyagode |
| 40. | C A Dilo | Differentiation of the sibling species belong to <i>Phlebotomus argentipes</i> complex by targeting the mitochondrial cytochrome c oxidase subunit I gene | Dr. K Gajapathy |
| 41. | P A N D Sumathipala | Patterns of genotypic resistance to rifampicin and isoniazid and susceptibility to selected second line drugs among rifampicin resistant mycobacterium tuberculosis strains in Sri Lanka | Dr. D Vidanagama
Dr. C D Gamage |
| 42. | R S R Rajakulasooriya | A PCR based assay for the identification of <i>Acinetobacter baumannii</i> and <i>Acinetobacter nosocomialis</i> from clinical isolates | Dr. T D C P Gunasekara |

Fish and Wildlife Management

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| 43. | K R Dalpathadu | Study on some biological and fisheries aspects of selected edible reef fishes in the east coast and west coast of Sri Lanka | Dr. S S K Haputhanthri
Dr. W M C S Wijesundara |
| 44. | P K P M P Kumara | Diversity of butterflies in Samanala Nature Reserve and Horton Plains National Park, Sri Lanka, a comparative study | Dr. C S Wijesundara |
| 45. | M D S De Silva | Investigating human influence towards stress and agonistic behavior of orphaned Sri Lankan elephant calves at elephant transit home, Udawalawe | Dr. E Rajapakshe
Dr. V Perera |
| 46. | J S Madushanka | Study on early successional changes in plant species diversity and composition after clear cutting a <i>Pinus caribaea</i> plantation, Sri Lanka | Prof. A Perera
Prof. S Ediriweera |

Gemmology and Industrial Management

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|-----|------------|---|---|
| 47. | N I Balage | A mineralogical and geological study of occurrence, origin and evolution of gem deposits in Kaluganga - Elahera gem area of Sri Lanka | Dr. U B Amarasinghe
Mr. R L D S Ranasingha |
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GIS and Remote Sensing

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| 48. | M M N C K | Understanding the formation of cavities in | Dr. A A J K Gunathilake |
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	Marasinghe	marble, highland areas of Sri Lanka and their importance: GIS based study	
49.	K M M Kulathunga	Spatial analysis of field properties affecting the paddy field; case study from Sabaragamuwa and Central Provinces	Dr. A A J K Gunathilake
50.	R L A Wijenayake	A GIS based application for divisional administration; case study in a Grama Niladhari Division of Kotmale area	Dr. A A J K Gunathilake Mr. M Gunawardhane
51.	K G A P Karunasinghe	Real-time radiation monitoring, mapping and intelligent alerting system: a case study at University of Peradeniya	Mr. P M P C Gunathilake
52.	E A S N Wimalawardhana	GPR application for interpretation of slip surface of slow moving landslides in Sri Lanka	Dr. P Jayasinghe Dr. A A J K Gunathilake

Medical Microbiology

53.	P G I D Amarasiri	A pilot study to determine the sensitivity and specificity of microscopic examination and polymerase chain reaction for early detection of canine ehrlichiosis reported to the Government Veterinary Hospital, Gatembe	Prof. W D S J Wickramasinghe Dr. S S Iddamaldeniya
54.	W G K C KapukotuWA	Urinary catheter colonization of candida in an intensive care unit	Dr. N Dissanayake Dr. A U B Pethiyagoda
55.	W M T D Bandara Warankulasooriya	Bacterial contamination of mobile phones among a group of young adults in Kandy, Sri Lanka	Dr. A L Tennegedara Dr. V Liyanapathirana
56.	M G S D Bandara	Identification of potentially pathogenic free-living amoebae in water sources in Homagama and Colombo Divisional Secretariat Divisions in Colombo District, Sri Lanka	Prof. D Iddawela

Medical Physics

57.	K K D L Ruvinda	Verification of applicability of enhanced dynamic wedge	Dr. N Jeyakumaran
58.	A L Pallewela	Designing a noise reduction system in incubators used in level III neonatal intensive care unit in Sri Lanka	Dr. V Sivakumar
59.	D M J Nuwan	Effectiveness of computed tomography scans for management of patients with chronic headache	Dr. J C marasinghe Dr. J J K H Udupihilla
60.	A N P Weerasinghe	Calibration and determination of the transit dose of HDR brachytherapy source	Dr. M A Y Ariyaratne
61.	A J S P Nileema	Automated detection of pulmonary tuberculosis in digital chest radiographs	Dr. S Kulathunga
62.	K B U Piyadeva	Artificial intelligence to detect and classify	Dr. C P Jayalath

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| | | brain tumors using-magnetic resonance imaging | Dr. W K I L Wanniarachchi |
| 63. | R T N Rajapakshe | The effect of patient positioning error in three dimensional conformal radiotherapy for carcinoma in thorax region | Dr. K L Kandegedara
Dr. C P Jayalath |
| 64. | J H J K De Silva | Comparison of radiographic film with ionization chamber system for dose profile measurements of the Co-60 external beam radiotherapy | Dr. M Chenthuran
Dr. C P Jayalath |

Nanoscience and Nanotechnology

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|-----|---------------------|---|--|
| 65. | A S S Athukorala | Hydroxyapatite incorporated bacterial cellulose hydrogels as a cost-effective 3D cell culture platform | Dr. A C A Jayasundara
Mr. J Liyanage |
| 66. | D M N S Dissanayake | Polyaniline aluminium hydroxide nanocomposites: investigation of its anticorrosive and flame retardant properties | Dr. K G C Senaratne
Prof. R M G Rajapakse |

Physics of Materials

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|-----|-------------------------|---|---|
| 67. | W M G B R B
Wijekkon | Synthesis of graphene oxide and graphene by Sri Lankan natural vein graphite and its application as an anode material for lithium ion batteries | Dr. N Gunawardhana |
| 68. | H P Weeramuni | Characterizations of zinc doped cupric oxide thin films prepared by spin coating technique | Prof. P Samarasekara |
| 69. | S M Aazir | Synthesis, XRD analysis and resistance measurements of <i>Bi-Pb-Sr-Ca-Cu-O</i> superconductors | Prof. F C Ragel
Dr. V A Senevirathne |

Science Education

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|-----|-------------------------------|---|--|
| 70. | M R T D Mallawa | Investigation of the strengths and weaknesses of newly introduced Grade 10 science syllabus | Dr. A R G A M Abeykoon
Manike |
| 71. | S R Dinali | Issues in implementing the curriculum of technology subject stream in school | Dr. S Yatigammana
Ekanayake |
| 72. | A C Volantine | Investigation of the factors affecting mathematics performance of Grade 11 students in Thunukkai Education Zone | Dr. T Kalamany |
| 73. | E M T
Bandaranayake | Effectiveness of applying self-determination theory in teaching mathematics in Hatton Education Zone | Dr. W D Chandrasena
Dr. A K Amarasinghe |
| 74. | W W M R G K S B
Wijethunga | Investigation of the effectiveness of activity based instruction on learning mathematics of Grade 6 students in Galewela Education Zone | Dr. W D Chandrasena
Dr. A K Amarasinghe |
| 75. | D N K Herath | Factors affecting student's performance and motivation lesson units "vectors and systems of coplanar forces" in combined mathematics | Dr. W D Chandrasena
Dr. A K Amarasinghe |

		at GCE (A/L) in Kandy Education Zone	
76.	A M S P Angamma	Effectiveness of multi-approach method in teaching mathematics: a case study in Puttalam Education Zone	Dr. W D Chandrasena Dr. A Amarasinghe
77.	K M M N Medagoda	An investigation of the relationship between Grade 5 scholarship results and GCE Ordinary /evel performance	Dr. A Abeykoon Menike
78.	J M C N Jayasundara	A study to evaluate implementation of teaching/learning process in GCE (A/L) biosystems technology in Kandy District	Dr. P R K A Vitharana
79.	E G T P Premarathne	Identifying factors affecting the development of science stream in thousand secondary schools	Prof. I Karunarathne
80.	H M J S K Herath	Factors affecting teaching science for technology for GCE (A/L) students: a case study in Kurunegala District	Prof. L R A K Bandara
81.	N D S Wimalasena	Application of the constructivism for teaching and learning in Grade 10 science	Dr. W D Chandrasena

Water Resources Management

82.	I U Gamage	Recent changes of agro well based water use pattern: a case study of Mawathawewa, Anuradhapura	Dr. M M P Perera
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