

Ph.D. and M.Phil. DEGREES AWARDED in 2017

Degree Awardees

Titles of Theses

Ph.D. – Biochemistry and Molecular Biology

01. A M Muthalib A study on Glycemic response of the foods eaten at breakfast and snacks in type 2 Diabetic patients (Sri Lanka Diabetes diet study)
Supervisors: Dr. Kamal Abdul Naser, Prof. R Sivakanesan, and Dr. Dr. B M Najeeb

Ph.D. – Chemical Sciences

01. T P Gamagedara Synthesis and characterization of hydroxyapatite nanoparticles and hydroxyapatite polymer nanocomposites for their potential applications in fabrication of bone implants
Supervisors: Prof. R M G Rajapakse and Prof. H M N Bandara
02. E N Jayaweera Development of liquid/gel electrolyte based dye-sensitized solar cells and attempt to scale up
Supervisors: Dr. G R A Kumara and Prof. R M G Rajapakse
03. S Malavipathirana Assessment of occurrence of potentially toxic elements (PTEs) in selected Aquaculture systems in Sri Lanka and prospective management of some PTEs via value addition to wastes-a multidirectional approach
Supervisors: Prof. H M D Namal Priyantha and Prof. K M S Wimalasiri
04. C P T Liyanaarachchie Antidiabetic properties of Canarium Zeylanicum(in Vitro and in Vivo), Osbeckia Octandra (in Vitro) and Piper betle (in Vitro) and bioassay-guided fractionation of C. Zeylanicum extracts
Supervisors: Prof. B M R Bandara, Prof. L Jayasinghe and Prof. M Gunathilake
05. M P J Dharmarathne Ayurvedic drug Triphala and Constituent plants: Antibacterial activity against multidrug-resistant Bacteria, Antioxidant and Cytotoxic activities and isolation of active compounds
Supervisors: Prof. B M R Bandara, Prof. V Thevanesam and Prof. S Kumar

Ph.D. – Earth Sciences

01. P L Dharmapriya Petrology, Geochronology and Geochemistry of ultrahigh-temperature granulites from the highland complex of Sri Lanka: new constraints on the p-t-t path and tectonics
Supervisors: Dr. M A S P K Malaviarachchi and Prof. Leo Kriegsman
02. A U Wijenayake Assessment of Mineral alteration and Antimicrobial potential of some *Rasashastra*

formulations

Supervisors: Dr. C L Abayasekera, Prof. H M T G A Pitawala and Prof. B M R Bandara

03. I P K Piyasinghe

Invasion of *Austroeupeatorium inulifolium* in degraded grasslands in Knuckles conservation area: Ecology, impacts and implications

Supervisors: Prof. H M S P Madawala and Dr. Jagath Gunatilake

***Ph.D.* – Environmental Science**

01. T P K Kulasooriya

Development of a prototype treatment facility to mitigate industrial pollutants using Natural and modified Sorbents

Supervisors: Prof. H M D Namal Priyantha and Prof. A N Navaratne

***Ph.D.* – Plant Sciences**

01. N Krishnapillai

A study of Morphological and Nutritional variability, sap composition and the response to some postharvest pathogens of Mango (*Mangifera indica* L.) varieties in Jaffna

Supervisors: Prof. N K B Adikaram and Dr. S W Wijeratnam

02. M A B Ranatunga

Assembling a core collection of Sri Lankan tea germplasm using selected Morphological, Biochemical and Molecular characters.

Supervisors: Prof. D M D Yakandawala and Dr. M T K Gunasekera

***Ph.D.* – Science Education**

01. M M Jamila

Enhancing Chemistry learning through assessments.

Supervisors: Prof. S Karunaratne

02. M R V K Mallawa

Prospective teacher's pedagogical readiness for constructivist Science teaching.

Supervisors: Prof. S Karunaratne

***Ph.D.* – Statistics and Computer Science**

01. K D B H Subasinghe

Management of privacy, security and ethics in social media networks within the legal context

Supervisors: Prof. S R Kodituwakku and Prof. H S Chandana Perera

***Ph.D.* – Zoological Science**

01. K N M Wijayathilaka

Phylogenetic relationships, biogeography and ecology of Sri Lankan microhylids (anura: microhylinae)

Supervisors: Prof. M Meegaskumbura, Dr. S Meegaskumbura and Prof. S Rajapaksha

02. S Wijeyamohan

Body condition and its impact in the management of Asian Elephants (*Elephas*

maximus)

Supervisors: Prof. Charles Santiapillai, Dr. Dennis Schmitt and Prof. T Jayasingham

***M.Phil.* – Biochemistry and Molecular Biology**

01. A M D S Karunaratna Effect of iron chelation therapy, zinc & copper status in beta Thalassemia major patients
Supervisors: Prof. J G S Ranasinghe, Prof. R M Mudiyanse and Prof. H M T G A Pitawala

***M.Phil.* – Chemical Sciences**

01. E P N Premaratne Glycolipid for stabilization of bioactive compounds in microemulsion formulation
Supervisors: Prof. A D L C Perera and Prof. D N Karunaratne
02. H M S P Randiligama Chemical reduction of nitrate by zero valent iron and nano zero valent iron
Supervisors: Dr. A Bandara and Prof. R Weerasooriya
03. T Sritharan Chemistry and bioactivity of extracts and metabolites from endophytic fungi in the fruits of carica papaya, averrhoa carmbola and syzygium
Supervisors: Prof. N S Kumar and Prof. U L B Jayasinghe
04. G R N Rathnayaka Chemistry and bioactivity of extracts and metabolites from endophytic fungi in the fruits of manilkara zapota and leaves of passiflora edulis
Supervisors: Prof. U L B Jayasinghe and Prof. N S Kumar
05. M V K Munasinghe Chemistry and bioactivity of secondary metabolites produced by endophytic fungi from piper nigrum, solanum insanum and momordica charantia
Supervisors: Prof. U L B Jayasinghe and Prof. N S Kumar
06. A Vijiyaratnam Development of metformin hydrchloride sustained release matrix tablet and bioequivalence studies
Supervisors: Prof. D N Karunaratne and Prof. Rohini Fernandopulle

***M.Phil.* – Earth Sciences**

01. H A K Gayantha Late Holocene monsoon variability, related climate and environmental evaluation: Bolgoda catchment, Sri Lanka
Supervisors: Prof. R L R Chandrajith and Prof. Joyanto Routh
02. N B Suuriyaarachchi Mapping geothermal resources in Sri Lanka: combined use of magnetotellurics and transient electromagnetic method
Supervisors: Prof. N D Subasinghe and Prof. H A Dharmagunawardhana

M.Phil. – Environmental Science

01. A L Warusawithana Use of indicator organisms to determine environmental changes in the Kotmale watershed area
Supervisor: Dr. S K Yatigammana

M.Phil. – Mathematics

01. T Shanmuganathan Phase space theta error control with variable time-stepping runge-kutta methods for autonomous dynamical systems
Supervisors: Prof. R Vigneswaran and Dr. D M Samarathunga

M.Phil. – Physics

01. J M K W Kumari Efficiency enhancement in dye sensitized Solar cells by modifications of the TiO₂ photo anode by incorporating metal nanoparticles, different size cations and Nitrogen doping
Supervisors: Prof. M A K L Dissanayake and Prof. G K R Senadeera

M.Phil. – Plant Sciences

- 01 D P G S Kumadumali Taxonomic study on *Nymphaea nouchali* Burm.f. and the identification of Hybrid taxa using Morphometrics and Molecular techniques
Supervisors: Prof. D M D Yakandawala and Dr. K Yakandawala
02. A Manoraj Activity of triphala, againsts multi drug-resistant human pathogens: value addition and synergism with synthetic antibiotics
Supervisors: Prof. V Thevanesam and Prof. B M R Bandara

M.Phil. – Statistics and Computer Science

01. H M L N K Herath Modeling of phoneme transitions for natural synthesis of speech signals
Supervisor: Dr. J V Wijayakulasooriya
02. I A K C Samarasinghe Impact of data mining on telecommunication company revenues
Supervisors: Prof. S R Kodituwakku Dr. Y P R D Yapa
03. P M P C Gunathilake Computerized 3D modeling for rapid artificial Bone substitute manufacturing
Supervisors: Dr. Y P R D Yapa, Dr. U A J Pinidiyaarachchi, Dr. J Wijayakulasooriya and Dr. K Ranawana

M.Phil. – Zoological Sciences

01. M M G K Senevirathne Phylogenetics, morphological and ecological correlates of Sri Lankan endemic genera and an ancient *Neobatrachian lineage* (anura; adenomus, taruga, nannophrys, lankanetes and na sikabatra chus)

Supervisor: Prof. M Meegaskumbura

02. W M B M B Weerakoon Abundance, diversity and distribution of a community of Butterflies in an early and late secondary forests in Maragamuwa Forest regeneration study site, Sri Lanka
Supervisor: Prof. K B Ranawana
03. S L Ranasinghe Molecular phylogeny of goblin spiders with a revision of Aprusia, Brignolia and Xestaspis (Araneae: Oonopidae) of Sri Lanka
Supervisors: Dr. S P Benjamin and Dr. P Samaraweera
04. D R G W B Ellepola Changes in distribution and diversity associated with bleaching in coral reef fishes in the Passikudah Bay, Sri Lanka
Supervisor: Prof. K B Ranawana

M.Sc. DEGREES AWARDED in 2017

Awardees

Titles of Research Project Reports

M.Sc. – Analytical Chemistry

1. N D B Jayasundera A comparison of catalytic dehalogenation efficiency of Trichloromethane by alloy nanoparticles of Iorn
2. P A D U Chaturanga Development of Silafluorene modified electrode for electrochemical detection of the insecticide-Carbofuran
3. J W K U Siriwardhane A comparative evaluation of the quality of innovator versus branded-generics of metformin hydrochloride tablets in Sri Lankan market
4. G R B L Gonawala B-cyclodextrin-assisted intercalation of curcumin into H⁺ and Al³⁺ exchanged montmorillonite clays
5. K R M Gunaratne Determination of anionic surfactants present in Kelani river water
6. A M D B Nugegoda Use of shells to treat water contaminated with nitrate and phosphate
7. A M P L Adikari Microwave assisted method for the thermal decomposition of asbestos-cement composites
8. H A N S Chandrasoma Removal of Ni(ii) using coconut coir dust
9. J G N Jiwlehela Graphene as a water based anticorrosion coating layer
10. H A K Maduranga Antioxidant, anti-inflammatory and antibacterial activities of scoparia dulcis (walkoththamalli)
11. S B R C Samarakoon TiO₂/Graphene Oxide composite as an anode material for Lithium Ion batteries
12. W M K G P Wijerathna Effect of Graphene Oxide on compressive strength of cement composites
13. L T M Karunaratne Z-amylase inhibitory activity and antioxidant activity of some selected spices

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|-----|-----------------------|---|
| 14. | W A S A Mallikarathna | Acetic acid treatment of Muthurajawela peat for enhancement of Ni (ii) and Cr (ii) removal |
| 15. | V S Manjrake | Structure-property relationships with the drug loading capacity of dendrimers |
| 16. | H K W Sandamali | Enhancement of Chromium (iii) and Copper (ii) removal using NaOH modified rice husk |
| 17. | I G N T Ubayasena | Synthesis of Magnesium Oxide nanoparticles as potential drug delivery agent for biomedical applications |

M.Sc. – Applied Epidemiology

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|----|--------------------|---|
| 1. | N D S Dissanayake | An epidemiological study on bovine babesiosis in Central and Uva provinces of Sri Lanka |
| 2. | A M Jiffry | A study on prevalence of infectious bursal disease among poultry farms in Ampara district in Sri Lanka |
| 3. | G I S Perera | Status of animal brucellosis in Sri Lanka with comparison of suspected and laboratory confirmed cases of bovine and caprine brucellosis |
| 4. | D B N Pushpakumara | Preliminary study on antimicrobial resistance of faecal isolates of E.coli and salmonella in wild animals in Eastern wildlife region of Sri Lanka |
| 5. | B D K Silva | Performance of shaver 579 and Novogen (Novobrown) layer parents in Marawila National Livestock Development Board farm |

M.Sc. – Applied Statistics

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|----|-------------------------------|---|
| 1. | Lasanthi W M S | Effects of sociodemographic and behavioural characteristics on non-communicable diseases |
| 2. | Rathnayake Ms. R M P K | A prediction model for intensity of anopheles mosquitoes in Sri Lanka using climate variables |
| 3. | Dasanayaka Mr. D G B M
H C | Forecasting passenger demand and modeling optimal staff requirement of bia Katunayake |
| 4. | Wickrama Mr C B | Factors affecting crimes in Sri Lanka |

M.Sc. – Clinical Biochemistry

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|-----|-------------------|--|
| 01. | N K Weerasekara | In-vivo hypoglycemic effect and in-vitro α -amylase inhibition by averrhoa carambola linn.fruit |
| 02. | C S Handuwalage | |
| 03. | R Piratheepkumar | |
| 04. | E K S Jayathilake | Establishment of novel multiplex reverse transcription polymerase chain reaction protocol with nonoverlapping serotype specific nested primer pairs for diagnosis of dengue. |

M.Sc. – Computer Science

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| 01. | K H W K G Kahawala | Database tool for managing and browsing Mysql databases |
| 02. | A P C Fernando | Developing prototype for object oriented database model |
| 03. | A M V G Adikari | Development of a web based train operation management system |

04.	H M A D Herath	Development of job management system
05.	D K C Rukshan	Object oriented design improvement using automated refactoring
06.	P G K Bandara	Bitcoin and blockchain based pgp certificate for enhancing pgp reliability
07.	B R M N P Rathnayake	Fuzzy logic based exam analysis tool
08.	H M T B Herath	An automated letter tracking system and a teacher information system to increase the productivity of Ibbagamuwa zonal education office
09.	A M S N B Attanayake	Xml based approach for customizing modern web user interfaces
10.	M L D M P	A data collection and analysis system for structural health monitoring of bridges using internet of things
	Abehayawardhana	
11.	A A U A Atapattu	Coursework M.Sc. degree
12.	G S T Bandara	Fuzzy inference model for measuring happiness level of children in children's homes
13.	B A P C Chamikara	Coursework M.Sc. degree
14.	K A Chandramala	Coursework M.Sc. degree
15.	S M Haleem	Coursework M.Sc. degree
16.	I M Jayaweera	Coursework M.Sc. degree
17.	V Kaveevendan	Coursework M.Sc. degree
18.	K W G P A Kobbekaduwe	Coursework M.Sc. degree
19.	C B Paranagama	Coursework M.Sc. degree
20.	J Sakthithasan	Automatic text summarization for social network comments
21.	T Senthooran	Coursework M.Sc. degree
22.	M B K Sureka	Coursework M.Sc. degree
23.	N Weerasinghe	Coursework M.Sc. degree
24.	N L O Wickramanayake	Coursework M.Sc. degree
25.	S Yathavan	Coursework M.Sc. degree
26.	M M S S Abeyathne	Coursework M.Sc. degree
27.	N Arulampalam	Coursework M.Sc. degree
28.	N C Gamage	Coursework M.Sc. degree
29.	K Jacikanth	Coursework M.Sc. degree
30.	S Mathanraj	Coursework M.Sc. degree
31.	M M T N N Muhandiram	Coursework M.Sc. degree
32.	J Nantharuban	Coursework M.Sc. degree
33.	G G S N K Rathnayake	Coursework M.Sc. degree
34.	S Sivaramany	Coursework M.Sc. degree
35.	R Vijayatheepan	Coursework M.Sc. degree
36.	W G Y C Weerakkody	Coursework M.Sc. degree
37.	S Aruljeyanthan	Coursework M.Sc. degree

M.Sc. – Biodiversity, Ecotourism and Environment Management

01. A I Kuruppu Factors affecting ecotourism development in Kithulgala area, Sri Lanka
02. A M N P Abeyratne Evaluation of ecotourism potential using geographical information system
03. A M S K Abeysekara Estimation of Carbon stock in Udawattakele forest reserve in Kandy district of Sri Lanka
04. S N Rathnayaka
05. K K Biyanwila Potential use of multi-purpose medicinal plants with bio-economic value for the stream banks in a sub-urban recreational area
06. R M H De Silva Development of a universal model for ecotourism: the experience of South-East Asia
07. V K U S Ruparathna Investigation of role of macrophytes with respect to water pollution in Uruwal Oya

M.Sc. – Disaster Management

01. M F K F F Banu Issues associated with flooding of malala lagoon in hambantota, sri lanka and possible solutions
02. K W Dharmasena Analysis of flood vulnerability and development of a flood mitigation plan for hatton watawala in nuwara-eliya district, sri lanka
03. A U K Godamunne Emergency management and related factors of road traffic accident victims admitted too the district general hospital, matale
04. G R N Harshani Analysis of case records of dog bites resported to the base hospital, avissawella during 2010-2013
05. E G Rosairo Implications of climate on water stress and water quality variations in daduru oya basin, sri lanka
06. C Liyanaarachchige A study on lighting activities in kalutara district and remedial actions to mitigate the impact
07. K R K D N Ranaweera Degration of coastal resources in puttalam lagoon
08. S N Munasinghe Extremity injuries from motor cycle road traffic accidents: the experience from admissions to orthopedics wards in teaching hospital kurunegala
09. S Karunakaran Community preparedness for community resilience of the coastal community 'a case of mannar island'
10. H H Hemasinghe Landslide susceptibility mapping using logistic regression model
11. M Sutharsanan Strengthening grassroots level governance through inclusive community based disaster risk management (cbdrm) in the batticaloa district
12. A M Neranjan Vulnerability assessment and low cost mitigatory measures for roadside slope failures taking examples from badulla and ratnapura district
13. J D S N Siriwardana Application of geophysical techniques in studies of land subsidence; a case study at poramadulla in the nuwara eliya district

M.Sc. – Engineering Geology & Hydrogeology

01. K M S M Kumarasinghe Groundwater issues in kalpitiya peninsular, sri lanka
02. H M K J Herath Groundwater development in hard rock aquifers in sri lanka a case study in vavuniya area
03. A M D U Abeysinghe Verification of resistivity method as a geophysical tool for subsurface site characterization in comparison with ground truths
04. M K Y A Marambe Geotechnical investigation and slope stability analysis for lowbudget construction projects in a mountainous area

M.Sc. – Environmental Science

1. D L W S Pushpakumara Export trade trends and the conservation related issues of endemic freshwater fish species of sri lanka
2. D D R P P Vijethilaka
3. G H V Padmasiri Removal of red coloration of pararosaniline (pra) from aqueous solutions by using peat as adsorbent
4. K S Sivanesan Spatial heterogeneity of soil physicochemical properties within moraella forest in the knuckles range
5. W G D D M Shermila Water footprint and life cycle impact assessment of primary tobacco blend in sri lanka
6. Y P Kumara Diversity and abundance of marine plankton in relation to nutrients in southern bay of bengal
7. S U Welmillage National inventory of polycyclic aromatic hydrocarbons (pahs), short lived climate pollutants (sleps), and btex for sri lanka in 2013
8. S Sharaniya The environmental and socio economic impact and the management of eichhornia crassipes (water hyacinth) in vavuniya district
9. D S M Attanayake Prevalence of fluorosis in the monaragala district: some significant causative factors

M.Sc. – Experimental Biotechnology

01. Fernando Ms. L R T Isolation of oil degrading bacteria from waste oil
 02. Mathuri Ms. M Antioxidant activity of cyamopsis tetragonoloba(l) taub leaf
 03. Kumara Mr. M A N A study on the toxicological effects of an ayurvedic medicine buddharaja kalka on liver and kidney functions in mice
 04. Sandamali Ms. J A N A study on the toxicological effects of an ayurvedic medicine seetharama vati on liver and kidney function in mice
 05. Shafy Ms. S A M A study on toxicological effects of an ayurvedic medicine vajrakshara on kidney and liver functions in mice
 06. Tilakaratna Mr. A J A In vitro study on toxicity of chlorpyrifos in goat fetus derived cell cultures
 07. Vimalaswaran Ms. E Optimization of a method for genotyping of short tandem repeat dna of elephants
 8. Tennakoon Ms. A U Identification of lactic acid bacteria present in domestic curd samples
 9. Arrosan Mr. R Characterization of rhizobium spp.in mimosa pudica l. From five different districts of sri lanka
 10. Attanayake Mr. A M K C Evaluation of hypolipidemic effect of different extracts of trigonella fornum-graecum seeds
 11. W A L N Gunarathne Morphological, phytochemical and molecular characterization of piper betle cultivars in sri lanka
 12. Jayathilake Miss. R M C Determination of glycemic indices of selected improved rice varieties grown in sri lanka
 13. Theivendram Miss. T Characterization of rhizobium spp. In clitoria ternatea l. From five different districts of sri lanka
 14. Wijayarathna Miss. T S G S Development of an assay procedure for aspartic protease inhibitory activity and screening candidate plants
- B

15. Ms. N Paramsothyathan Effect of glycemic index of improved rice varieties grown in Sri Lanka on obese people

M.Sc. – GIS & Remote Sensing

1. T M J W K Gunathilaka A decision support tool based on GIS for local government
2. A N N Peiris Spatial and temporal analysis of traffic accidents of Katunayake police area
3. E Vidanapathirana Applications of GIS for designing, monitoring and management of water distribution system in Colombo municipal council area
4. Y G Gnanathilaka Use of GIS and remote sensing to expedite road expansion acquisition surveys in cadastral survey areas
5. W Y M W A K Wijebandara Development of a digital facility for office and field investigation of survey requisitions in survey department of Sri Lanka
6. C M Shiham Spatial distribution of green mussel (*perna viridis*) in China Bay and Kinniya in relation to the sea water pollution
7. M M G Weerasiri Hypothetical model for transformation of ellipsoidal height to mean sea level height
8. W A D R Yapa Water inflow modeling in the Kalu Ganga reservoir, a SWAT based hydrological approach in the reservoir catchment
9. K G S Jayawardhana Evaluation of long term impacts of an air pollution source using GIS techniques
10. H D Jayawardena Web GIS to map the climate change vulnerability for Sri Lanka
11. S J W W M M P Weeradekera Digital mapping of soil fertility parameters in the Pelwatta sugar plantation in the Moneragala district
12. H T R Deeraga Preliminary study on the distribution of *Annona glabra* in Bellanvila Attidiya Sanctuary using remote sensing imagery
13. I G D D Ihalagedara Application of geophysical surveys and geostatistics in land subsidence hazard zonation mapping in Matale city area
14. K V D S L Pathmasiri GIS based tool for rural roads development management: a case study from management in Attanagalla DS Division
15. A A U S Jayanath Spatial and temporal patterns of crimes in Godakawela police division
16. A M P Ariyathilaka Demarcation of Deduru Oya reservoir inundation area using GIS and remote sensing technology and study of the social, environmental impacts
17. L M Wickramanayake
18. E I C De Silva Impact on Kandy ICBT branch with the introduction of Kurunegala ICBT branch (a geographical analysis)
19. L A A W Wimalasinghe Monitoring spatio-temporal distribution of vegetation in the Udawatta Kele Sanctuary using vegetation indices
20. W P A Rupasinghe
21. K K P K Jayasinghe Monitoring of land use changes using remote sensing and GIS, a case study from Kandy Divisional Secretariat
22. M A R R Dias Overlaying of geographical information on real world objects using mobile augmented reality
23. W A S Bandara Analysis of educational resources in Uva province-a GIS based approach
24. M D N Chandramali GIS application for evaluating locational suitability of currently available rice mills and future rice mills in Polonnaruwa district
25. K G C M Gamage Violation of the international maritime boundary line by unauthorised boats: a GIS based approach

26. S M B R Siriwardhana Gis based modeling to analyse the pipeline route selection for the city of colombo

M.Sc. – Industrial Chemistry

1. R J Perera An inorganic Nitrogen removal in submerged plant wetland system using coconut coir as an alternative substrate material
2. A M B G S D Abeysinghe Investigation of the colour removal of textile dyes in wastewater using low cost natural adsorbents
3. D L K L M Dassanayake Development of refractory bricks using damaged tiles
4. S N K D Balasooriya Development of a waste water treatment system for cement industry

M.Sc. – Industrial Mathematics

1. H D C S Fernando Application of goal programming case study in domestic cable industry
2. K D H T Katugampala Mathematical model for a information retrieval
3. K R M Silva Improved method for selecting power play specialists in one-day cricket team
4. N Sukanthan Exact and heuristic upper bound techniques to solve the transportation problem with varying demands and supplies
5. V L Perera Analysis of temperature distribution of an air-cooled engine
6. H M I U Herath Effect of moisture content on cooking time of rice

M.Sc. – Medical Microbiology

01. Ms. B N L D Rangama Phylogenetic group distibution of human fecal escherichia coli in kandy district, sri lanka
02. D M G A Dassanayaka Vancomycin resistant enterococcal colonization among intensive care unit (icu) patients in a tertiary care hospital
03. S W P L Daulagala Exposure to varicella zoster virus in a selected group of an tenatal women in sri lanaka
04. T A C Pavithrani Antibiotic susceptibility of significant gram negative bacteria isolated from blood
05. K Thiviyaaluxmi Prevalence of hantavirus infection among renal patients who attended to the renal clinic, girandurukotte district hospital, sri lanka
06. S Biriyaangari Exposure rate to chikungunya virus infection in clinically diagnosed dengue patients admitted to the teaching hospital, jaffna

M.Sc. – Medical Physics

01. A Ramalingam A novel morphological method for segmenting tumour clusters in medical images
02. H V R Samanthika Designing of a beta calibrator for calibration of production level instruments
03. D P De Silva Determination of a accuracy of number and relative electron density of simulated images used for treatment palling in external beam radiotherapy

M.Sc. – Nanoscience & Nanotechnology

01. K D D T Jayathilake A theoretical analysis of structure and properties of $(2 < n < 8)$ clusters: a dft approach
02. N M H Karunarathna Fabrication of zno based dye-sensitized solar cells with graphene as a counter electrode
03. J L K Illangasingha A density functional theory analysis of platinum nanoclusters
04. D N D Liyanage Evaluation of causative factors of chronic kidney disease of unknown etiology of moneragala district in sri lanka
05. J G B Epakande Storage, durability and antibacterial efficacy of antibiotic coated gauze in diabetic wounds and enhancement after coating nano zinc oxide
06. D G N Karunathilaka Electrical and complex dielectric behaviour of composite polymer electrolyte based on poly ethylene oxide, alumina and tetrapropylammonium iodide
7. K H T D Kumarasinghe Study stabilized zero valent iron nanoparticles on catechol remediation in aqueous media
8. K N L De Silva Synthesis and characterization of reduced TiO_2 photocatalyst on aluminium support for water splitting
9. R R R B P W T C Palihawadana Preparation of zirconia nanoparticles from sri lankan zircon sand
10. S A D R Madhusanka Titanium dioxide (anatase) - multilayer graphene composite as anode material for lithium ion batteries
11. R M P C D Rajapaksha Improved bactericidal activity of graphene oxide- Fe_3O_4 nanocomposite against pathogenic bacteria
12. R D L Sandaruwan Multilayer graphene as cathode material for lithium-ion hybrid supercapacitor
13. D S Dharmagunawardana Photodegradation of nitrate in water using titanium dioxide nanoparticles coated on aluminum support
14. K C M L Elvitigala L-cysteine-functionalised silver nanoparticles as a new rapid colorimetric sensor for cadmium(ii) ion
15. W D K K Gananarathna Phase coexistence inside a single crystal: experimental evidence in metal organic framework mil-53(al)-fa
16. B S Hettiarachchi Preparation of dye-sensitized solar cells using graphene on soda lime glass as a counter electrode
17. R A Jayarathna Efficiency enhancement in dye-sensitized solar cells made from poly (ethylene oxide) based solid electrolytes by plasticizer, mixed cation and nano filler effects

M.Sc. – Physics of Materials

01. A G S Dissanayake Synthesis and characterization of a fumed silica based gel electrolyte using ethylene glycol and libob
02. P A R P Kumara Measurements of natural radioactivity levels of several building materials used in sri lanka based on high purity germanium detector (hpge)
03. P K K Kumarasinghe Development of cdte thin film by thermal evaporation for solar cells
04. M A A H Ratnayake Improvement of tensile strength of nbr using calcium carbonate nanoparticles
05. A M I E Gunathilaka Development of libob based novel gel electrolytes and their application in lithium ion batteries
06. A Dharmasiri Investigation of the adsorption process of hexavalent chromium with polyaniline/ coconut coir composite

M.Sc. – Science Education

01. M A M Anees Problems faced by students in learning science in grade 10 and 11: a case study at

- kalpitiya division of puttalam education zone
02. A Kudavidanage Use of self-learning study guide to enhance algebraic skills of g.c.e (ordinary level) students
 03. C S Wathudura
 04. W B M Pussella Investigating present status of using computers for science teaching at g.c.e. (o/l) in mawathagama educational division
 05. V S Samarawickrama Use of ict based teaching and learning kit to enhance grade 11 students' conceptual understanding of the topic on heredity
 06. M I M Thasleem Using student centered approach to enhance students' chemistry learning on 'atom and sub atomic particles' of grade ten science syllabus
 07. F A M Salahudeen A comparative study of student performance on student and teacher centered teaching in grade 10 physics in tamil medium: a case study in katugastota educational zone
 08. S Jeyarani The effectiveness of an alternative teaching approach in enhancing students engagement and interest in chemistry of d block elements at g.c.e. (a/l) : a case study in nuwaraeliya educational zone, sri lanka
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