# Ph.D , M.Phil and M.Sc DEGREES AWARDED & TITLES OF THESES

## Ph.D. and M.Phil. DEGREES AWARDED in 2018

#### Degree Awardees

## Titles of Theses

#### Ph.D. – Biochemistry and Molecular Biology

01.	H P Gunawardena	Cardio-metabolic risk factors and antioxidant status of risk populations and effect of Ceylon cinnamon on prehypertensives
		Supervisors: Dr. K D R R Silva and Prof. R Sivakanesan

#### Ph.D. – Chemical Sciences

01.	T M M Marso	Utilization of environmental pollutants and biomass for the production of biofuels and industrial chemicals using heterogeneous catalysts
		Supervisors: Prof. M Y U Ganehenage and Dr. C S Kalpage
02.	I H V Nicholas	Naturally occurring therapeutic agents as potential nutraceuticals
		Supervisors: Prof. N L V Karunaratne , Prof. D N Karunaratne and Prof. Gehan Amaratunga
03.	R S Hewawasam	Bioethanol and wine from fruits of musa spp. By microbial fermentation
		Supervisors: Prof. S Sotheeswaran , Dr. U S K Weliwegamage and Prof. R G C S Rajapakse
04.	UGRLWanniarachchi	Development of solid state thermochromism & photochromism in spirobenzopyrans upon encapsulation into metal organic frameworks
		Supervisors: Dr. C V Hettiarachchi and Prof. A Wickramasinghe

#### *Ph.D.* – Earth Sciences

01.	E M S G Edirisooriya	Jurassic plant fossils from the Tabbowa Basin, Sri Lanka: their evolutionary significance in Gondwana
		Supervisors: Prof. H A Dharmagunawardhane and Prof. Patricia Vickers Rich
02.	A M N M Adikaram	Geochemical and sedimentological characterization of sediments from eastern coast, Sri Lanka: implications for paleo environments and coastal evolution
		Supervisors: Prof. H Ishiga Shimane, Dr. D T Jayawardana and Prof. H M T G A Pitawala

#### Ph.D. – Environmental Science

01.	P A A Gamaethige	Assessment of environmental impacts of the Mahaweli diversion scheme downstream of Polgolla
		Supervisors: Prof. H M T G A Pitawala, Prof. H M D Namal Priyantha and Prof. S K Yatigammana
02.	N V Edirisinghe	Characterization of inland water resources in selected zones in Sri Lanka: An isotopic and geochemical approach
		Supervisors: Prof. H M T G A Pitawala, Prof. H A Dharmagunawardhane and Dr. R

		L Wijayawardane
Ph.I	D. – Physics	
01.	W G C Kumarage	Studies on modified chemical bath deposited Cds thin films as a solar cell window material
		Supervisors: Dr. B S Dassanayake, Dr. J A C P Jayalath and Prof. L B D R P Wijesundara
02.	C A Thotawatthage	Nanostructural modifications to photoanodes and electrolytes to improve the performance of dye sensitized solar cells
		Supervisors: Prof. M A K L Dissanayake and Dr. G K R Senadhera
Ph.I	D. – Plant Sciences	
01.	S L Rajakaruna	Impacts of river regulation on riverine vegetation and fish populations in downstream of Mahaweli diversion scheme from Minipe to Manampitiya Sri Lanka
		Supervisors: Prof. K B Ranawana, Prof. H M S P Madawala and Dr. A M T A Gunarathne
02.	W A M P Ariyarathne	Chromosome evolution of the endemic species of Sri Lanka with emphasis on families anacardiaceae and orchidaceae based on DNA sequences
		Supervisors: Prof. Deepthi Yakandawala, Dr. S A Wijesundara and Prof. M R A Samuel

03. N C S Ruklani

Ph.I	0. – Zoological Science	
01.	T C Weeraratne	DNA barcoding, genetic diversity, genetic structure and age structure of selected mosquito species of Sri Lanka
		Supervisors: Prof. H S P P Karunarathne and Prof. S N Surendran

hornworts of Sri Lanka

Taxonomy, biogeography and evolutionary relationships of thalloid liverworts and

Supervisors: Dr. S C K Rubasinghe, Dr. D G Long and Dr. L L Forrest

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

01.	U M U W Jayasekara	Prevalence of Breast Cancer and risk factors of Breast Cancer among women in
		Yatinuwara secretariat division in Kandy district
		Supervisors: P B Hewavitharana, Dr. M L Jayathilake and Dr. S Kulathunga

#### *M.Phil.* – Chemical Sciences

01.	D N P R Jayakantha	Designing and construction of a low cost instrument to measure the surface area of powdered samples. Supervisors: Prof. H M N Bandara and Prof. R M G Rajapakse
02.	K U B Gunatilake	Fabrication of underwater superoleophobic and superhydrophilic membranes to purify oil contaminated wastewater
		Supervisors: Prof. J M S Bandara and Prof. R Weerasooriya
03.	R M N M Rathnayaka	Synthesis of expanded graphite from Sri Lankan vein graphite for novel technological applications
		Supervisors: Dr. H W M A C Wijayasihghe and Prof. H M T G A Pitawala
04.	A Kuganesan	Bioactivity of pulp, peel and seed kernel of selected Mango varieties from Sri Lanka
		Supervisors: Dr. G Thiripuranathar, Prof. P A Paranagama and Prof. A N Navarathna
05.	D M R T D K Divisekara	Adsorption of Cd (ii) and Pb (ii) on Bathalagoda paddy soil treated with glyphosate

		Supervisors: Prof. A N Navarathna and Ms. A S K Abeysekara
06.	D S N K Liyanagamage	In vitro antioxidant, in vivo antihyperglycaemic and antihyperlipideamic activities of combined plant extract used in traditional medicine
		Supervisors: Prof. V Karunarathna , Dr. S Jayasinghe and Prof. A P Attanayake
M.P.	hil. – Earth Sciences	
01.	H P T S Hewathilake	Development of Sri Lankan graphite as an anode material for rechargeble li-iron batteries
		Supervisors: Dr. N W B Balasooriya, Dr. H W M A C Wijayasinghe and Prof. H M T G A Pitawala
02.	W A P Weerakoon	Palynological investigations on Gondwana flora from Sri Lanka: palaeoenvironmental and palaeogeographical implications
		Supervisors: Prof. H A H Jayasena, Prof D Yakandawala and Prof. R L R Chandrajith
03.	L H M T M B Ambillapitiya	Reconstructing the quanternary sea level changes around Palk Bay of the Central Indian ocean and evolution of Palk Bay Islands of Sri Lanka
		Supervisors: Dr. P N Ranasinghe, Dr. C H E R Siriwardana and Dr. Bernard Preme
04.	P A S R D Perera	Calcareous nannofossil biostratigraphy of late cretaceous to early paleogene succession at Mannar basin, Sri Lanka
		Supervisors: Dr. P N Ranasinghe, Dr. C H E R Siriwardana and Dr. Bernard Preme

#### M.Phil. – Environmental Science

01.	M B U Perera	Distribution and environmental preference of phytoplankton and zooplankton of selected reservoirs in sri lanka
		Supervisor: Dr. S K Yatigammana, Prof. S A Kulasooriya and Prof. C B Dissanayake
02.	P Jeganathan	Knowledge, practices and attitudes of fruits and vegetable farmers on pesticide usage and effect of three commonly used pesticides on common hourglass tree frog, <i>Polypendates cruciger</i> in Sri Lanka
		Supervisor: Prof. R S Rajakaruna
03.	R P S K Rajapaksha	Assessment and mapping of soil carbon stocks in knuckles forest region of Sri Lanka
		Supervisor: Dr. R R Ratnayake, Prof. H M S P Madawala and Prof. S K Gunathilake
04.	W M L S Weerasundara	Chemical characterization of atmospheric deposition in Kandy, Sri Lanka
		Supervisor: Dr. M Vithanage, Dr. A M M Ziyath, Prof. A Goonetillake and Dr. D G G P Karunaratna
M.Phil. – Physics		

01.	A M J S Weerasinghe	Development of novel polymer free and polymer incorporated quasi solid (gel)
		electrolytes for dye sensitized solar cells
		Supervisors: Prof. M A K L Dissanayake and Dr. V A Seneviratne

#### M.Phil. – Statistics and Computer Science

01.	C M M Mansoor	Automatic Hdl generator for application specific instruction - set processor (asip)
		Supervisor: Dr. R G Ragel and Dr. S Radhakrishnan

02.	A Galappaththi	Social network analysis approach for criminal network analysis
		Supervisors: Prof. S R Kodituwakku, Dr. Y P R D Yapa, Dr. A A J K Gunathilake and Dr. R D Nawarathne
03.	K R Wijeweera	Analysis and enhancement of algorithams in computational geometry
		Supervisors: Prof. S R Kodituwakku
04.	K A N K Karunarathna	Poisson mixed models for count data from dependent clusters and thier applications
		Supervisor: Prof. P Wijekoon

#### M.Phil. – Zoological Sciences

01.	N U K Pathirana	Trematode infections in common hourglass tree frog (polypedates ruciger): multiple
		parasitism and age dependent resistance and tolerance
		Supervisors: Prof. R S Rajakaruna and Dr. M Meegahakumbura

# **M.Sc. DEGREES AWARDED in 2018**

Awardees

Titles of Research Project Reports

#### M.Sc. – Analytical Chemistry

1.	B A P V S Cooray	Isolation of the seed germination inhibitory principles presents in fruit pericarp of caryota urens l.
2.	K K A S Sanjeewa	Transport pathways and transfer coefficients of heavy metals generated by waste co-incineration in the Sri Lankan cement manufacturing process
3.	S A N A Sirisinghe	Removal of textile dye by using carbon obtained from sawdust burned in industrial furnace
4.	U G W L Jayaweera	Serum zinc levels in diabetic patients with and without dyslipidemia and cardiovascular diseases
5.	R M L T Rajapaksha	Assessment and improvement of quality of treated wastewater from Hantana sewage treatment plant using biochar
6.	V S Withanage	Determination of lead, cadmium, chromium and copper in edible parts of cabbage (brassica oleracea) and removal of selected heavy metals by washing with distilled water and common house-hold solutions
7.	T M P G C R Senevirathne	Analysis of antimony, barium and lead in gunshot residues by inductively coupled plasma mass spectroscopy (icp-ms) for the estimation of shooting distance
8.	K G D L Kirinda	Evaluation of antioxidant properties, total phenolic content and preparation of a cream from artocarpus heterophyllus extract
9.	H Dananjaya	Removal of arsenic (arsenate) from water by iron impregnated coconut shell based activited carbon
10.	P G R S Hemapala	Effect of chitosan clay composite coatings on quality traits of Chiken eggs stored at room temperature
11.	P W C M Purijjala	Molecular dynamics simulation study of c6 cell penetrating peptides

12.	D M D A Bandara	Investigation of volatile compounds and physico chemical properties of cocount toody and sprit
13.	G H S D Pathmasiri	Defluoridedation using coconut coir based activated carbon - alginate beads
14.	R G G Pradeep	Montmorillonite composites of murraya paniculata: intercalation, releasing, antibacterial and cytotoxicity studies
15.	L R C Premalal	Decolourisation of crystal violet and congo red dyes from aqueous solutions by using salvinia molesta
16.	M M S Sanjeedha	Methyl ammonium lead idodide sensitized nano crystalline tio2-based solar cell with graphene as the hole transport material
17.	I A L Ipalawaththa	Inhibitive action of graphene oxide/natural rubber and graphene oxide/carboxymethyl cellulose coatings on the corrosion of mild steel
18.	M M Liyanage	Bioremoval of pb(ii) using the green alga chlorococcum aquaticum
19.	I W D N Wickramarachchi	In-vitro investigation of antidiabetic properties of some selected medicinal plants and their chemical profiling

## M.Sc. – Applied Epidemiology

1.	M D N Jayaweera	Prevalence of antimicrobial resistance in bovine clinical mastitis cases reported tocentarl veterinary investigation centre of Veterinary Research Institute, Gannoruwa from 2011-2015
2.	S D M Maheer	Dengue incidence and risk factors in the Kattankudy medical officer of health (MOH) division in Batticaloa during the 2009/2010 outbreak
3.	T P Wijayathilaka	Evaluation of awareness on rabies control among the middle level staff of the Department of Animal Production and health with a view to strengthen rabies control
4.	B M C Rathnayake	A survey on general symptoms and potential risk factors for transmission of infections in a selected sample of students in University of Peradeniya
5.	H P S D Palliyage	Assessment of current knowledge, attitude and practices regarding pulmonary tuberculosis and perception of their social relationships by patients attending District Chest Clinic, Kilinochchi

#### M.Sc. – Applied Statistics

1.	H M S M Herath	Copula based analysis of groundwater quality in Sri Lanka
2.	D A R K Dasanayaka	Reference values for spiromenry for healthy Sri Lankan adults: age between 20 to 65 years

## M.Sc. – Clinical Biochemistry

01.	B M S Amarajeewa	Nutritional and health status of rural attending the Ayurveda mobile health clinic at Hanguranketha and Madadumbara
02.	S S K Marasinghe	192 R/Q polymorphism of human serum pon 1 in a cohort of healthy Sri Lankan individuals
03.	M M M Shafras	Comparison of glycemic control and anthropometric parameters before and after Ramadan fasting in a selected cohort of patient with type 02 diabetes mellitus in Sri Lanka

## *M.Sc.* – Computer Science

01.	K Kanisto	Voting system for visually impaired voters
02.	W H M R Y Wijekoon	Design and development of an application to increase the efficiency of supply
		of new electricity connections
03.	W S J M M U P Senevirathne	Brain tumour detection in MRI images based on image segmentation
04.	W A Malkanthi	Automated classification of plants based on shapes of the leaves
05.	V Mathyananthan	An approach to weed detection in paddy fields using digital images
06.	K Aniththithan	Coursework M.Sc. degree
07.	A T Bandaranayake	Coursework M.Sc. degree
08.	A D M Gunaralnam	Coursework M.Sc. degree
09.	S Hisoban	Vehicle diagnostic information monitoring system
10.	U A V Punyajeeva	Coursework M.Sc. degree
11.	S Sivasothilingam	Coursework M.Sc. degree
12.	V Thryagarajah	Coursework M.Sc. degree
13.	T Jathubalatharan	Coursework M.Sc. degree
14.	A P K N D Karunanayake	Coursework M.Sc. degree
15.	A D Hemachandra	Coursework M.Sc. degree
16.	L S K Lokuliyana	Coursework M.Sc. degree
17.	S A C Prasanna	Coursework M.Sc. degree
18.	G Romiyal	Coursework M.Sc. degree
19.	M S Shafana	Effective feature extraction methods for improving the performance of printed Tamil character recognition
20.	S S Sugirtharaju	Coursework M.Sc. degree
21.	T Logendraraj	Coursework M.Sc. degree
22.	D Pavalakumar	Coursework M.Sc. degree
23.	N Kajaluxshy	Coursework M.Sc. degree
24.	T Kopinath	Coursework M.Sc. degree
25.	M S S Masharrath	Coursework M.Sc. degree
26.	A K M Nasleen	Coursework M.Sc. degree
27.	P Niruththika	Coursework M.Sc. degree
28.	N C Pinnaduwage	Coursework M.Sc. degree
29.	W M P Rathnayake	Coursework M.Sc. degree
30.	T Sugirthan	Coursework M.Sc. degree
31.	M N Suraweera	Coursework M.Sc. degree
32.	W Archana	Coursework M.Sc. degree
33.	H Ashokan	Coursework M.Sc. degree
34.	N A C Cooray	Coursework M.Sc. degree

35.	N C N Cooray	Coursework M.Sc. degree
36.	K Tharsan	Coursework M.Sc. degree
37.	R W H R Amarasinghe	Coursework M.Sc. degree
38.	D F Dehipe	Coursework M.Sc. degree
39.	V Sathananthy	Coursework M.Sc. degree
40.	M G V Sadaruwan	Coursework M.Sc. degree

#### M.Sc. – Biodiversity, Ecotourism and Environment Management

01.	Z Hassan	Development of environmental management models for marine ecotourism in the Maldives: a case study of Hulhumale and Ukulhas Islands
02.	5	Spatial distribution of parthenium hysterophorus and association of native flora in parthenium sp. Dominated habitats in Vavuniya, Sri Lanka

# *M.Sc.* – **Disaster Management**

	Disuster munugement	
01.	H M C Ekanayake	Assessment of the occurrence of dental fluorosis in relation with grounwater
		fluoride in the galewela area
02.	N Thananjeyan	Droughts and its socio-economic impacts: a case study in the northern province of sri lanka
03.	V Muarlitharan	Risk mapping of denfue and determination of knowladge, attitudes and practicles and association of sociodemographic factors in high risk areas of trincomalee moh division
04.	D S Vithanage	Analysis of the meteorological drought in sri lanka using the standardized precipitation index
05.	M G H U Gunarathna	Industrial hazard management system planning in manufacturing indusries of export pracessing zone, katunayake- sri lanka: from the perspectives of four case studies
06.	KSivendram	The study of grounwater quality crises and best management practices in Jaffna Peninsula - Sri Lanka
07.	N D K BNiyangoda	Gaps and shortcomings of the emergency response in sri lanka (with special reference to floods and landslides)
08.	T M R KThennakoon	Valnerability analysis of the daduru oya floods in the ganewatta divisional secretary division
09.	S Kokularajah	Development of a community partipatory and cost effective hazard risk sensitive spatial database to multiwaikkal west gn division
10.	S Suthakaran	Flood risk assessment through gis technology: a case study in manmunai north divisionalsecretariat of Batticaloa, Si Lanka
11.	S Shanmugarajah	Investigation of factors affecting on dengue outbreaks: a case study in Vavuniya District, Sri Lanka

## M.Sc. – Engineering Geology & Hydrogeology

01.	K D A Samaraweera	Assessment of groundwater chemistry in eastern part of Ampara District, Sri
		Lanka
02.	J P D R K Jayalath	Rectification of road cut failures occurred between culvert 5/11 and 5/13-a case
		study from Dehiovita-Daraniyagala-Nooriya road in Kegalle District
03.	M P K G Jayathilaka	Relationship of rock mass rating and tunneling quality index for metamorphic
		rocks in North Central and Central Provinces, Sri Lanka
04.	M D S LKarunadasa	Investigation, instumentation and monitoring for mitigation of landslides: an
		application in Kahagalla landslides, Sri Lanka

05.	C NSubasinghe	Assessment of landslide analysis at second mile post-Badulla, Sri Lanka
06.	A M N P B Abeysinghe	Assessment of hydrogeological conditions using resistivity data: a case study in
		Moragahakanda area, Sri Lanka
07.	M M T N B Munasinghe	Reassessment of subsurface tunneling conditions of upper elehera canal with an
		integration of geophysical data with geological and geotechnical information
08.	E M N H Ekanayake	Analysis of road cut failures and designing of countermeasures - a case study
		Bulathsinhala-Horana road, Kalutara District Sri Lanka
09.	A G R P Weerasinghe	Application of tank model and quantitative assessment to predict rainfall induced
	_	displacement on landslide case study on Nawalapitiya landslide Sri Lanka
10.	D M D I K Ariyarathna	Road cut stability assessment; Kegalle-Bulathkohupitiya road, Sri Lanka

## M.Sc. – Environmental Science

01.	T L Samaraweera	Legislative disputes with respect to import/export of animal commodities from the
		perspective of enforcement officers (customs officers)
02.	N M P J G C P Nawarathna	Avifaunal diversity in natural and human-modified habitats in Kithulgala, Sri
		Lanka
03.	J A M D Jayakody	Estimation of water footprint for University of Peradeniya, Sri Lanka
04.	A W L C Sugathapala	Ditermination of soil respiration in up-country tea growing reigons of Sri Lanka
05.	K Kanchchana	Economic valuation of mangrove ecosystem in Jaffna peninsula
06.	K M D P Kodithuwakku	Performance of Garnet filter media for filtration of algea and reduce turbidity
07.	J A I Senadhera	Reclamation of acid saline soil by organic amendments
08.	N A K L Seneviratne	Characterization of fibres used as friction materials of brake pads in Sri Lanka
09.	G A M S Gunarathna	Screening of cytogenotoxic potentials of weedol and polycrone profenofos applied
		in sri lankan agricultural fields using plant based bioassays.
10.	H P Amaratunga	Hydrogeochemical characteristics of groundwater in wilgamuwa region: an area
		with high incidence of chronic kidney disease with uncertain etiology (ckdu)
11.	P L M M Perera	A Conservation plan for the critically endangered mangrove Lumnitzera littorea
12.	M P N M Dias	Formulation of low cost nutrient medium for cultivation of microalgae spirulina
		platensis

# M.Sc. – Experimental Biotechnology

01.	K M S C Bandara	Analysis of heavy metal concentrations of alternanthera sessilis (mukunuwenna)
0.0		plants from selected sites in sri lanka
02.	G Abhiram	The antioxidant activity of gymnema sylvestre leaf extract
03.	P Wijesiriwardhana	Assessment of mn, cu and pb contamination in ipomoea aquatica (kankong) collected from selected sites in sri lanka
04.	Y A P K Dayasena	Assessment of marker based genotypes diversity of saltol qtl in relation to
	ý	seedling stage salinity tolerance in selected rice genotypes
05.	B D S Muthusinghe	Identification of pathogenic leptospira species among swine in sri lanka: use of
		fiab gene based pcr and 16s rrna gene based lamp method
06.	D Paramalingam	PCR based identification of Meloidogyne species infecting chili, tomato and okra
		in selected locations of Sri Lanka.
07.	S Premina	Quantification and identification of airborne bacterial and fungal communities in
		selected areas of teaching hospital, kandy, sri lanka
08.	V R R U Udapamunuwa	Physiological characterization and genetic diversity analysis of the rhizobial
		populations inhabiting gliricidia sepium from selected locations of anuradhapura

		district, sri lanka
09.	V Thiruchenthooran	Partial purification and characterization of extracellular lipase form cladosporium
		cladosporiodes
10.	U H K Dissanayake	Morphological and molecular characterisation and consumer oreference analysis
		of cassava (manihot esculenta crantz) cultivars grown in sri lanka

#### M.Sc. – GIS & Remote Sensing

1.	S N Edirisinghe	Gis based analysis of vesting land for university of peradeniya
2.	O N S M Fonseka	Identification of traffic accident monitoring points for katunayake police division
3.	T M Wijeratne	Analysis of the spatial and temporal distribution of dengue patients in sri lanka and colombo district
4.	W K N C Withanage	Gis based locational suitability analysis for residential development in kandy municipal council area
5.	W V T D Amarasinghe	Defection of change of total vegetation cover using multi-temporal landsat imagery in northern and eastern provinces of sri lanka
6.	H M D M Dissanayake	Rehabilitation and management of irrigation tank cascade system using gis and gps case study meegaha amuna watershed, sri lanka
7.	S K Epasinghe	Flood risk analysis using geographic information systems case study-lower kelani river basin
8.	J A B N Jayawardana	Gis based analysis on human-elephant conflict (hec) in polonnaruwa region
9.	Shakthivel Kishoran	Gis based road traffic accident analysis in batticaloa district, sri lanka
10.	D A J S Kumara	Application of webgis in infrastructure development projects: a case study in sabaragamuwa province
11.	H M K Kumarasinghe	Gis approaches for estimation of soil erosion in uma oya upper catchment area
12.	K P A M K Luxmini	Forest cover change detection using gis and remote sensing in mannar district
13.	G L Pathirage	Locational suitability for residential development in kandy district: gis based multi-criteria evaluation
14.	S S K Sujanthy	Investigation of factors responsible for land subsidence in matale area, sri lanka: a gis based approach
15.	L R T C Weerarathne	Application of gis in demarcation of land valuation zones (case study in gangawata korale dsd)
16.	A M R N K Alahakoon	Effects of land use in landslides: a case study in the haliela divisional secretariat division of the badulla district, sri lanka
17.	K D N P Ranaweera	Gis based analysis of utilization of clustered hospitals in jaffna district
18.	J W M M P K Jayasinghe	Landslide hazard zoning using open spatial data ; a case study in udadumbara & medadumbara divisional secratariats in sri lanka

# *M.Sc.* – Information Technology

<i>M</i> .5	M.Sc. – Information Technology		
01.	E M T B Ekanayake	Coursework M.Sc. degree	
02.	A C T Fernando	Coursework M.Sc. degree	
03.	M T G G Jayathilaka	Coursework M.Sc. degree	
04.	L P C D Karunananda	Coursework M.Sc. degree	
05.	G V A C L Nanayakkara	Coursework M.Sc. degree	
06.	R M S C Ranaweera	Coursework M.Sc. degree	

07.	V Tharsinath	Coursework M.Sc. degree
08.	N Wickramasinghe	Coursework M.Sc. degree
09.	H G T S Dharmasena	Coursework M.Sc. degree
10.	P S U De Silva	Coursework M.Sc. degree

# M.Sc. – Industrial Chemistry

01.	L A A H Gunathilaka	Antimicrobialand antioxidant activity of essential oil from allspice (pimenta dioica l.merr)
02.	S Sithamparapillai	Use of phyllantus emblica plant materials to treat well water in jaffna municipal council area
03.	A M R Ruwan	Comparison study of a actiated carbon, activated rice husk ash and activated sweet corn cob for wastewater treatment
04.	U B D Perera	Determination of tetramethylthuiram disulphide (tmtd) content in natural rubber latex
05.	K S Weerathunga	Effects of selected stabilizers and different storage temperatures on the physical & sensory properties of canned coconut milk
06.	A N R Wickramasinghe	Utilizing rejected fly ash as an additive for cement blocks production

# M.Sc. – Industrial Mathematics

1.	E M E K Ekanayake	The impact of the upwind angle for a wind driven iron smelting furnace in sri
		lanka
2.	R L Lokuhetti	Synchronization in the multi-manufacturer multi-buyer integrated inventory
3.	H M D P Bandarathilake	A stochastic differential equation approzch to model wind speed forcasting
4.	T Varathalingarajah	A theoretical and analytical study of abruptly stopped axial couette flow in
		annular region

#### M.Sc. – Medical Physics

01.	M S P Marasinghe	Quantitative evaluation of t1 using dual-flip-angle to distinguish lesions and non- lesions in human brain using magnetic resonance imaging
02.	S Colombage	Survey of patient dose and safe use of radiation in computed tomography
03.	R L R A S Rajapaksha	A Survey Of Radiation Doses To Paediatric Patients Undergoing Common Flouroscopic Examinations On A Conventional Flouroscopy System In A Dedicated Paediatric Hospital In Sri Lanka
04.	J Mahadevan	The structural connectomic blueprint of alzheimer's disease
05.	D K A Vithanage	Computerized mass detection system for early detection of breast cancer

## M.Sc. – Medical Microbiology

01.	G G K Vidyarathne	Determination of the prevalence of campylobacter species and their antibiotic
		sensitivity pattern among patients with diarrhea in a paediatric tertiary care
		Hospital
02.	Y A Raddella	A cross-sectional study on soil transmitted helminth infection in children in

		selected divisions of Hanthana tea estate, Kandy, Sri Lanka
03.	T Thakshagini	Antibiotic sensitivity patterns of extended spectrum beta cactomase producing
		coliforms isolated from patients with urinary tract infections presenting to an out
		patients department at a private hospital
04.	M S Shihana	Molecular mechanisms of carbapenem resistance among enterobacteriaceae
		isolated at teaching Hospital, Batticaloa

# M.Sc. – Nanoscience & Nanotechnology

01.	R A Amarasinghe	Calcium carbonate nanoparticles as cheap adsorbent of methylene blue
02.	V C M Somarathna	Pure chemical method to synthesize precipitated calcium carbonate nanoparticles
		from naturally occurring dolomite
03.	M I Haseemdeen	Design of a noval protein to protect telomere againstterf2: an approach towards cancer therapy
04.	K Sivanathan	Synthesis of nano-silica from two popular varieties of rice huskd in batticaloa district in sri lanka
05.	S Ehanathan	Greenly synthesised iron nano particle (inp) and their application for degradation of volatile organic compounds (voc)
06.	N M Gunawardana	High yield and low cost synthesis of expanded graphite, graphene oxide and graphene from vein graphite
7.	H L S K Hiniduma	Synthesis of shape memory polyurethane polymers using commercially available oils and their incorporation into cotton fabric
8.	D M M H Dahanayake	Development of a biosensor using antigen-coated silver nanoparticles for the detection of leptospirosis
9.	A W M V Ekanayake	Enhancement of the efficiency of a dye-sensitized solid-state solar cell by eliminating the excess iodine in the cui hole conductor material
10.	H B Ihalagedara	In situ one step synthesis of phase selective super-hydrophobic calcium carbonate nanoparticles from sri lankan dolomite
11.	G G T A Ranathunge	Utilization of economical materials to synthesize magnesium oxide nanoparticles and graphene oxide based nanocomposite as an anti-cancer drug carrier
12.	W R A P Ratnayake	A model system to investigate drug loading and releasing using bacterial nanocellulose and bovine serum albumin

## M.Sc. – Pharmaceutical Botany

01.	K K Y Dilhani	Coursework M.Sc. degree
02.	A R Godakanda	Coursework M.Sc. degree
03.	A P R Bandara	Coursework M.Sc. degree
04.	K G S R Rajapaksa	Coursework M.Sc. degree
05.	S M D S Samarakoon	Coursework M.Sc. degree
06.	M G T M Wijesinghe	Coursework M.Sc. degree

## M.Sc. – Physics of Materials

01.	R J G L R Kumara	Development of multilayer graphene-based counter electrodes for dye-sensitized
		solar cells
02.	HKDWMKUK	Characterization of natural pyrite (FeS <sub>2</sub> ) for thermoelectric applications
	Hapuhinna	

03.	A A B Madushani	Fabrication and characterization of floated Graphite/Graphene based composite counter electrodes for dye – sensitized solar cells		
M.Sc. – Science Education				
01.	M J I K Wijesinghe	Identification of some learning difficulties of physics concepts in mechanics among g c e a/l students and potential remedial measures		
02.	H S Peramunage	Perspective of science teachers on in-service teacher training in Colombo District		
03.	M A D N Kumara	Achievement level of Mathematics of junior secondary level students across gender and age level in Kegalle educational zone in Kegalle, Sri Lanka		
04.	A S Ajmeer	Investigation of the student's achievement and motivation on the unit' molecular shapes' at g c e (a/l) chemistry: a case study in Mawanella Educational Zone, Sri Lanka		
05.	L Vijayagowry	A study on the conventional teaching and assessment versus skill oriented instruction and assessment to enhance generic skills through learning Biology in junior secondary school		
06.	A A U N Samarakoon	Investigation of student's perception on selecting ICT as a basket subject for G C E (O/L) in Mawanella Education Zone		
07.	N W L Narangoda	The impact of scientific literacy and motivation of grade 11 students on their performance in Science		
08.	D M P S Dissanayake	Effectiveness of using activity based learning method to teach plant diversity for Seventh graders		
09.	W N Rukmalee	Key factors affecting performance and enrolment in Science in Dimbulagala Education Zone		
10.	W M N D Wijenayeka	Factors affecting the students' achievement in G C E (A/L) Biological Science Stream		

## M.Sc. – Water Resources management

01.	V Thadsayini	Effects of rainfall variation on paddy cultivation in dry seasons in Trincomalee:
		case study on Thambalagamuwa village
02.	P A S S Nawarathne	Groundwater quality assessment in a hard rock terrain a case study in Kirindi Oya
		basin, Sri Lanka
03.	D V S Samarasingha	Evaluation of treatment efficiency of the serum from skim latex coagulation with
		different coagulants by aerobic microbes
04.	K S G S Priyadarshanee	Groundwater recharge mechanism of artesian wells and geothermal springs of Sri
		Lanka: a combined environmental isotope and hydrochemical study