



PGIS News

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Quarterly Update of the work and progress of the Postgraduate Institute of Science (PGIS),
University of Peradeniya, Sri Lanka

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CERTIFICATE COURSE ON APPLIED EPIDEMIOLOGY



Dr. S Herath, Director General, Department of Animal Production and Health addressing the audience during inauguration of the Certificate Course on Applied Epidemiology on 23rd January 2010 at the PGIS auditorium. Seated (L to R): Dr. A Dangolla (Co-coordinator), Prof. S H P Karunaratne (Dean, Faculty of Science), Dr. A O Kodituwakku (Additional Secretary, Ministry of Livestock Development), Prof. B S B Karunaratne (Director, PGIS) and Dr. S Yatigammana (Chairperson, Board of Study in Zoological Sciences and Co-coordinator).

25TH SHORT COURSE ON GIS AND APPLICATIONS



A technical session of the 25th Short Course on GIS and Applications held at the PGIS from 9th to 14th March 2010.

OPENING OF THE NEW BUILDING



From L to R: Ms. M B A Ekanayake (Secretary, Ministry of Science and Technology), Prof. B S B Karunaratne (Director, PGIS), Prof. H Abeygunawardhane (Vice Chancellor, University of Peradeniya), Prof. G Samaranyake (Chairman, UGC) and Ms. M Peiris (Secretary, Ministry of Higher Education) at the opening ceremony of the PGIS new building.

INDIAN OCEAN COMPARATIVE EDUCATION SOCIETY (IOCES) CONFERENCE



Local and foreign participants of the IOCES conference held at the PGIS from 29th to 30th November 2010. Front row (4th to 8th from L to R): Prof. G Pampanini (President, IOCES), Adjunct Professor C Fox [Secretary General, World Council of Comparative Education Societies (WCCES)], Prof. B S B Karunaratne (Director, PGIS), Dr. U M Sedere (Director General, NIE) and Dr. S Karunaratne (Chief Organizer, IOCES Inaugural Conference).



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CONTENTS

<i>Selected Events at the PGIS</i>	1
<i>M.Sc. Degree Programmes and PG Diploma Programmes</i>	3
<i>Public Lectures</i>	4
<i>Workshops, Symposia and Short Courses</i>	6
<i>PGIS - Young Researchers' Forum (YRF) and Activities</i>	9
<i>Ph.D. and M.Phil. Degrees Awarded</i>	9
<i>PGIS Activities in Focus ...</i>	13
<i>M.Sc. Degrees and PG Diplomas Awarded</i>	19

PGIS News

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M.Sc. DEGREE AND POSTGRADUATE DIPLOMA PROGRAMMES

M.Sc. Programme (Date of Commencement)	Board of Study	Coordinator(s)	No. of Students
Analytical Chemistry (16 May 2010)	Chemical Sciences	Prof. H M D N Priyantha (Dept. of Chemistry, UP) Dr. A Nawaratne (Dept. of Chemistry, UP)	23
Applied Statistics (24 April 2010)	Statistics and Computer Sc.	Dr. K Perera (Dept. of Engineering Mathematics, UP)	38
Biodiversity, Ecotourism and Environment Management (8 May 2010)	Environmental Science	Dr. S Yatigammana (Dept. of Zoology, UP)	13
Clinical Biochemistry (8 January 2010)	Biochemistry and Mol. Biology	Prof. R Sivakanesan (Dept. of Biochemistry, UP) Dr. P H P Fernando (Dept. of Biochemistry, UP)	17
Computer Science (24 April 2010)	Statistics and Computer Sc.	Dr. A A I Perera (Dept. of Mathematics, UP)	62
Disaster Management (3 April 2010)	Earth Sciences	Dr. R L R Chandrajith (Dept. of Geology, UP) Dr. J J Wijetunge (Dept. of Civil Engineering, UP) Prof. B S B Karunaratne (PGIS, UP)	38
Environmental Science (8 May 2010)	Environmental Science	Dr. R Fernando (Dept. Physics, Open University, Nawala)	23
Experimental Biotechnology (4 December 2009)	Biochemistry and Mol. Biology	Dr. P Samaraweera (Dept. of Molecular Biology and Biotechnology, UP) Dr. S Ranasinghe (Dept. of Biochemistry, UP)	15
GIS and Remote Sensing (2 January 2010)	Earth Sciences	Dr. Jagath Gunatilake (Dept. of Geology, UP)	53
Industrial Chemistry (16 May 2010)	Chemical Sciences	Dr. M Y U Ganehenege (Dept. of Chemistry, UP) Dr. C S Kalpage (Dept. of Chemical Engineering, UP)	11
Industrial Mathematics (14 November 2009)	Mathematics	Dr. W B Daundasekera (Dept. of Mathematics, UP)	16
Medical Microbiology	Plant Sciences	Dr. C L Abayasekara (Dept. of Botany, UP)	21

(7 May 2010)		Prof. V Thevanesam (Dept. of Microbiology, UP)	
Nanoscience and Nanotechnology (8 May 2010)	Chemical Sciences	Prof. R M G Rajapakse (Dept. of Chemistry, UP) Dr. L R A K Bandara (Dept. of Physics, UP) Dr. V N Seneviratne (Dept. of Chemistry, UP)	33
Physics of Materials (7 May 2010)	Physics	Dr. L R A K Bandara (Dept. of Physics, UP)	8
Science Education (12 January 2010)	Science Education	Prof. A D L C Perera (Dept. of Chemistry, UP) Dr. P Saravanakumar (Dept. of Botany, UP) Dr. C V Hettiarachchi (Dept. of Chemistry, UP) Prof. U N B Dissanayake (Dept. of Mathematics, UP) Dr. V Seneviratne (Dept. of Physics, UP)	30
Science Education (15 July 2010)	Science Education	Dr. S Karunaratne (Science Education Unit, UP) Dr. I Karunaratne (Dept. of Zoology, UP) Dr. C V Hettiarachchi (Dept. of Chemistry, UP) Prof. U N B Dissanayake (Dept. of Mathematics, UP) Dr. V A Seneviratne (Dept. of Physics, UP)	30
POSTGRADUATE DIPLOMA PROGRAMMES			
Information Technology (IT) (21 November 2009)	Statistics and Computer Sc.	Dr. S Kodituwakku (Dept. of Statistics and Computer Science, UP)	20
Science Education (14 November 2009)	Science Education	Dr. S Karunaratne (Science Education Unit, UP)	35

UP ≡ University of Peradeniya

PUBLIC LECTURES

<i>Title</i>	<i>Speaker and Affiliation</i>	<i>Date</i>
<i>Advanced Ceramics and Applications</i>	<i>Prof. Wasantha Amarakoon Alfred University, U.S.A.</i>	<i>January 3, 2009</i>
<i>Polar Dinosaurs</i>	<i>Dr. Thomas Hewitt Rich Curator, Vertebrate Palaeontology Division Museum Victoria Honorary Research Fellow, Monash University, Australia</i>	<i>March 2, 2009</i>

<i>The First Animals - the Ediacarans from the Neoproterozoic</i>	<i>Professor Patricia Vickers-Rich Chair, Palaeontology Founding Director, Monash Science Centre Clayton Campus, Monash University, Australia</i>	<i>March 2, 2009</i>
<i>Capacitive Materials and Capacitors for Energy Storage and Device Applications</i>	<i>Dr. Relva C Buchanan Professor, Ceramics and Materials Science Dept of Chemical and Materials Engineering University of Cincinnati, Ohio, U.S.A.</i>	<i>December 19, 2009</i>
<i>Conservative Science Teaching/ Teachers: How will Students Grade us?</i>	<i>Prof. Frank P Peiris Department of Physics Kenyon College, Ohio, U.S.A.</i>	<i>December 28, 2009</i>
<i>Nanoceramics for Solid State Lighting Applications</i>	<i>Professor Vasantha Amarakoon Director, NYS Centre for Advanced Ceramic Technology (CACT) Alfred University, USA</i>	<i>January 4, 2010</i>
<i>Where do we come from? A brief History of our Universe and our place in it</i>	<i>Professor T Wickramasinghe Professor of Astronomy and Director, Paul H Hiack Planetarium and Observatory, College of New Jersey, USA</i>	<i>January 15, 2010</i>
<i>A Survey on Biodiversity of three isolated hills in Sri Lanka and the Biogeography of their Species</i>	<i>Mr. Suranjan Fernando Ph.D. Student, Department of Botany University of Peradeniya</i>	<i>February 18, 2010</i>
<i>Climate Change and Global Warming : The greatest Environmental Challenge in the 21st Century</i>	<i>Prof. Nimal Gunatilleke Department of Botany University of Peradeniya</i>	<i>February 24, 2010</i>
<i>An explanation to Cyclic Germination Patterns in Seeds with Physical Dormancy, Sensitivity Cycling to Dormancy Break</i>	<i>Dr. Gehan Jayasuriya Department of Botany University of Peradeniya</i>	<i>March 3, 2010</i>
<i>Genetic Mapping in Tree Crops, Challenges and Advance Applications</i>	<i>Ms. Chandima Ariyaratna Tea Research Institute, Talawakele</i>	<i>March 10, 2010</i>
<i>Molecular Biology of Auxin Signaling</i>	<i>Dr. Nihal Dharmasiri Department of Biology Texas State University, San Marcos, USA</i>	<i>July 22, 2010</i>
<i>Artificial Insemination in Elephant: One Tool in the Tool Box</i>	<i>Prof. Dennis Schmitt Department of Agriculture, Missouri State University, USA</i>	<i>August 16, 2010</i>
<i>Management of Captive and Wild Elephants</i>	<i>Mr. Bruce Read Department of Agriculture, Missouri State University, USA</i>	<i>August 16, 2010</i>

WORKSHOPS, SYMPOSIA AND SHORT COURSES

<i>Event</i>	<i>Coordinator(s) (Board of Study)</i>	<i>Date(s)</i>	<i>No. of Participants</i>
16 th Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	Feb. 2 - 7, 2009	21
1 st Advanced (17 th) Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	March 9 - 14, 2009	23
Symposium on Effective Synergization of Water Resources and Landscape Management	Dr. S Yatigammana Dr. A Dangolla (Zoological Sciences)	April 4 - 5, 2009	79
Postgraduate Certificate Course in Advanced Organic Chemistry	Dr. L Jayasinghe (Chemical Sciences)	April 2009 - Feb. 2010	10
Workshop on Scientific Writing	Dr. N C Bandara (PGIS)	April 30, 2009	112
Workshop on Wildlife Gardening	Dr. K Yakandawala (Plant Sciences)	May 15, 2009	50
18 th Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	May 19 - 24, 2009	34
Workshop on Rapid Response Awareness: The Risk of Avian Influenza in Sri Lanka	Dr. S Yatigammana Dr. A Dangolla (Zoological Sciences)	June 6, 2009	112
19 th Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	June 29 - July 4, 2009	35
4 th Short Course on Health and Anesthesia in Captive Elephants	Dr. A Dangolla (Zoological Sciences)	July 4, 2009	91
20 th Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	July 6 - 11, 2009	25
21 st Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	July 25 - 30, 2009	42
Short Course on Application of Disaster Management Principles in Emerging Epidemics in Sri Lanka	Dr. S Yatigammana Dr. A Dangolla (Zoological Sciences)	July 30 - 31, 2009	53

2 nd Advanced Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	Aug. 1 - 6, 2009	14
Netherlands Fellowship Programme (NFP) Refresher Course on Innovative Approaches to Multi-Scale Landslide Hazard and Risk Assessment	Dr. Jagath Gunatilaka (Earth Sciences)	Oct. 19 - 30, 2009	30
3 rd Advanced Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	Dec. 1 - 6, 2009	16
Peradeniya University Research Sessions (PURSE) – 2009		Dec. 3, 2009	17 (PGIS students)
Workshop on Lightning Protection Systems and Earthing	Mr. K R Abhayasinghe (Physics)	Dec. 5, 2009	17
Workshop on Handling of Snakes in Research	Dr. S Ranasinghe Prof. R Sivakanesan (Biochemistry and Mol. Biology)	Dec. 11 - 13, 2009	10
23 rd Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	Dec. 15 - 20, 2009	34
Workshop on Nanoscience and Nanotechnology: Some possibilities for Research in Sri Lanka	Dr. D H S Maithripala Prof. R M G Rajapakse (PGIS)	Dec. 23, 2009	56
24 th Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	Jan. 5 - 10, 2010	33
Certificate Course on Applied Epidemiology	Dr. S K Yatigammana Dr. A Dangolla (Zoological Sciences)	Jan. - Aug. 2010	28
25 th Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	March 9 - 14, 2010	39
Intensive Course on Applied Epidemiology	Dr. S K Yatigammana Dr. A Dangolla (Zoological Sciences)	March 12 - 14, 2010	50
26 th Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	March 30 - April 4, 2010	22
Discussion Meeting on Solar Photovoltaics	Prof. M A K L Dissanayake (Physics)	April 16, 2010	19

4 th Advanced Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	April 24 - 29, 2010	12
Workshop on Tissue Culture Applications	Dr. K Fernando (Biochemistry and Molecular Biology)	May 17 - 25, 2010	13
Workshop on Scientific Writing	Dr. N C Bandara (PGIS)	May 26, 2010	170
27 th Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	June 28 - July 3, 2010	33
5 th Short Course on Health and Anesthesia in Captive Elephants	Dr. A Dangolla (Zoological Sciences)	July 3, 2010	63
28 th Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	Aug. 23 - 28, 2010	18
5 th Advanced Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	Sep. 6 - 11, 2010	15
Teacher Training Programme (Central Province) – GCE (A/L) Physics New Syllabus	Dr. V A Seneviratne (Science Education)	Sep. 23 - 24, 2010	121
29 th Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	Oct. 18 - 23, 2010	22
Teacher Training Programme (Central Province) – GCE (A/L) Biology New Syllabus	Dr. I Karunaratne (Science Education)	Oct. 19 - 20, 2010	121
Teacher Training Programme (Central Province) – GCE (A/L) Chemistry New Syllabus	Dr. C V Hettiarachchi (Science Education)	Oct. 26 - 27, 2010	160
Workshop on Practical Community Countermeasures for Tsunami and Earthquake Disaster Risk Mitigation	Dr. J Wijetunge (Earth Sciences)	Oct. 28, 2010	40
6 th Advanced Short Course on GIS and Applications	Dr. Jagath Gunatilaka (Earth Sciences)	Nov. 15 - 20, 2010	24
2 nd Certificate Course on Applied Epidemiology	Dr. S K Yatigammana Dr. A Dangolla (Zoological Sciences)	Nov. 2010 - Sep. 2011	21
Indian Ocean Comparative Education Society (IOCES) Conference	Dr. S Karunaratne (Science Education)	Nov. 29 - 30, 2010	81
Peradeniya University Research Sessions (PURSE) - 2010		Dec. 16, 2010	42 (PGIS students)

PGIS - YOUNG RESEARCHERS' FORUM (YRF) AND ACTIVITIES

Executive Committee - 2009/2010:

Patron:	Prof. B. S. B. Karunaratne (Director PGIS)
President:	Ms. Thilini C. Weeraratne
Secretary:	Ms. Saranga Vithanage
Members :	Ms. Iroshini Hemachandra, Miss. Achala Herath, Mr. Nalin Dammika, Ms. Navodi Aberathna, Miss. Dinusha Kanatiwela and Miss. Inoka Piyasinghe.

Activities

A half-day seminar session followed by the Annual General Meeting of the YRF was held on 27th October 2009 at the PGIS Auditorium. During the seminar session, two M.Phil. students registered at the PGIS presented their research findings. Mr. S. Wijeyamohan (Department of Zoology, University of Peradeniya) made a presentation on “*An Assessment of the Human-Elephant Conflict in Sri Lanka*” and Miss. Rukmali Athurupana (Department of Zoology, University of Peradeniya) on “*Captive Elephant Management in a Western Facility*”.

Another half-day seminar session on “Expectations of private sector from an employee” was conducted by Dr. Rudy Fernandez (Management Consultant, Trainer and Lecturer) at the PGIS Auditorium on 17th December 2009.

Ph.D. and M.Phil. DEGREES AWARDED

<i>Awardee</i>	<i>Title of Thesis</i>
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Ph.D. – Biochemistry and Molecular Biology

- | | | |
|----|--------------------------|---|
| 1. | A M D B Senevirathna | Molecular detection, quantification and characterization of Hepatitis C Virus strains in Sri Lanka (2010) |
| | Place of Research Work : | Genetech Molecular Diagnostics and School of Gene Technology, Colombo |
| | Supervisors : | Dr. N D Fernandopulle, Prof. S Jayasinghe and Dr. P Samaraweera |

Ph.D. – Chemical Sciences

- | | | |
|----|--------------------------|---|
| 1. | M H Haroon | Chemistry and biological activity studies of some marine algae and their endophytic fungi (2009) |
| | Place of Research Work : | Institute of Fundamental Studies, Kandy |
| | Supervisor : | Prof. H R W Dharmaratne |
| 2. | K Velauthamurty | Synthesis of monomers and polymers based on metal [Pd(II), Pt(II), Ru(II), Ni(II) and Cu(II)] functionalized 3,4-ethylenedioxythiophene complexes and their characterization (2010) |
| | Place of Research Work : | Department of Chemistry, University of Peradeniya |
| | Supervisors : | Prof. R M G Rajapakse and Prof. H M N Bandara |

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3. R G U Jayalal Study of diversity and taxonomy of lichens in the Horton Plains National Park with a view to biomonitor the ecosystem health (2010)
Place of Research Work : Department of Chemistry, University of Peradeniya
Supervisors : Prof. N L V V Karunaratne, Dr. D S A Wijesundara and Ms. P Wolseley

Ph.D. – Physics

1. M J M Jafeen Stability, strain and speed of polypyrrole actuators (2010)
Place of Research Work : Department of Physical Sciences, South Eastern University of Sri Lanka
Supervisors : Prof. M A Careem, Dr. R L N Chandrakanthi and Prof. S Skaarup
2. T M W J Bandara Synthesis and characterization of Polyethyleneoxide (PEO)-based and Polyacrylonitrile (PAN)-based polymer electrolytes to be used in photo-electrochemical (PEC) solar cells (2010)
Place of Research Work : Department of Physics, University of Peradeniya
Supervisors : Prof. M A K L Dissanayake and Prof. B -E Mellander

Ph.D. – Plant Sciences

1. W R W M A U Weerakoon The role of natural antifungal substances, peel pH and potassium fertilization in banana fruit resistance to anthracnose (2009)
Place of Research Work : Department of Botany, University of Peradeniya
Supervisors : Prof. N K B Adikaram and Dr. C L Abayasekara
2. U W N P Wanigasekara Biological and chemical elicitors of banana fruit defence (2009)
Place of Research Work : Department of Botany, University of Peradeniya
Supervisors : Prof. N K B Adikaram, Dr. C L Abayasekara, Dr. M Daundasekara and Dr. P Samaraweera
3. W M G C K Mannapperuma Comparison of bacteriological methods for detecting total coliforms and *Escherichia coli* in water (2010)
Place of Research Work : Department of Botany, University of Peradeniya
Supervisors : Dr. C L Abayasekara and Dr. G B B Herath
4. G D Sinniah Inflorescence diseases and natural disease resistance in mango (*Mangifera indica* L.) in relation to anthracnose development (2010)
Place of Research Work : Department of Botany, University of Peradeniya
Supervisors : Prof. N K B Adikaram and Dr. C L Abayasekara

M.Phil. – Biochemistry and Molecular Biology

1. R K B S Vasanthakrishnan Molecular diagnosis of specific strains of *Mycobacteria* in Kandy and Matale districts of Sri Lanka (2009)
Place of Research Work : Department of Biochemistry, University of Peradeniya
Supervisors : Dr. S B P Athauda and Dr. Anoma Siribaddana

M.Phil. – Chemical Sciences

-
-
1. R M M Y Rajapakse Clay polymer nanocomposites: investigation of their electrical properties for industrial and technological applications (2009)
Place of Research Work : Department of Chemistry, University of Peradeniya
Supervisors : Prof. R M G Rajapakse, Prof. H M N Bandara and Prof. B S B Karunaratne
 2. D G S R Premaratne Isolation of endophytic fungi of seaweeds from the coastal areas of Sri Lanka: a study on their chemistry and biological activities (2009)
Place of Research Work : Institute of Fundamental Studies, Kandy
Supervisors : Prof. H R W Dharmaratne and Prof. U L B Jayasinghe
 3. W M A M B Wijekoon Separation of tea flavan-3-ols by high-speed counter-current chromatography and antioxidant and antifungal activity studies (2009)
Place of Research Work : Department of Chemistry, University of Peradeniya
Supervisors : Prof. N S Kumar and Prof. A Wickramasinghe
 4. I G C K Kumara Synthesis, properties and applications of nano gibbsite crystals: a substrate for arsenate remediation (2009)
Place of Research Work : Institute of Fundamental Studies, Kandy
Supervisors : Dr. W M A T Bandara and Dr. S V R Weerasooriya
 5. S K Hettihewa High-Speed Counter-Current chromatographic separation and antibacterial activity of proanthocyanidins from tea leaves (2010)
Place of Research Work : Department of Chemistry, University of Peradeniya
Supervisors : Prof. N S Kumar, Prof. B M R Bandara and Dr. G J Panagoda
 6. D C Gunawardena Chemistry and bioactivity of the fruits of *Averrhoa carambola* (2010)
Place of Research Work : Institute of Fundamental Studies, Kandy
Supervisors : Prof. U L B Jayasinghe and Prof. N S Kumar
 7. S Wijeratne Investigation of green catalytic properties of clay nanocomposites (2010)
Place of Research Work : Department of Chemistry, University of Peradeniya
Supervisors : Prof. B M R Bandara and Prof. R M G Rajapakse

M.Phil. – Earth Sciences

1. W A N L Kulasena Sedimentology and micropaleontology of recent- and paleo-tsunami sediments of Sri Lanka (2009)
Place of Research Work : Department of Geology, University of Peradeniya
Supervisor : Prof. K Dahanayake
2. A S Welagedara Spatial and temporal changes of water quality of Tsunami affected areas in the southwestern coast: Sri Lanka (2009)
Place of Research Work : Department of Geology, University of Peradeniya
Supervisors : Dr. H A Dharmagunawardane and Dr. H M T G A Pitawala
3. N S Vithanage Vulnerability analysis and risk assessment of floods in Rathnapura municipal council area (2009)
Place of Research Work : Postgraduate Institute of Science, University of Peradeniya
Supervisors : Dr. Dinand Alkema and Dr. Jagath Gunathilake
4. T H N G Amaraweera Genesis of pegmatites and use of pegmatite mine waste as fertilizer in Matale

-
- District, Sri Lanka (2010)
- Place of Research Work : Department of Science and Technology, Uva Wellassa University, Badulla
Supervisors : Dr. H M T G A Pitawala and Dr. G W A R Fernando
5. I K M S C K Illangasinghe Quantification of erosion rates and evolution of geomorphology in the highlands of Sri Lanka (2010)
- Place of Research Work : Department of Natural Resources, Sabaragamuwa University, Belihuloya
Supervisor : Dr. T Hewawasam

M.Phil. – Physics

1. M A R L Samaraweera Fabrication and characterization of some polymer and pigment-based devices for solar cell and electrochromic applications (2009)
- Place of Research Work : Department of Physics, University of Peradeniya
Supervisor : Prof. K Premaratne
2. P B Samarasingha Synthesis and characterization of Li transition-metal oxide electrode materials, and their applications in Li-ion batteries (2009)
- Place of Research Work : Institute of Fundamental Studies, Kandy
Supervisors : Dr. H W M A C Wijayasinghe, Prof. M A K L Dissanayake and Dr. V A Seneviratne

M.Phil. – Plant Sciences

1. W W M A B Medawatte The invasive potential of *Pinus caribaea* morelet in wet and intermediate agro-ecological zones in the Knuckles Range, Sri Lanka (2010)
- Place of Research Work : Department of Botany, University of Peradeniya
Supervisors : Dr. K U Tennakoon, Prof. I A U N Gunatilleke and Prof. P E Hulme

M.Phil. – Statistics and Computer Science

1. A Laheetharan Improved estimation of parameters in probability distributions with known prior information (2010)
- Place of Research Work : Department of Mathematics and Statistics, Faculty of Science, University of Jaffna
Supervisor : Prof. P Wijekoon
2. S S Zahmeeth Brain Computer Interface (BCI) based on Electroencephalographic (EEG) patterns due to new cognitive tasks (2010)
- Place of Research Work : Artificial Intelligence Unit, Institute of Fundamental Studies (IFS), Kandy
Supervisors : Prof. A Nanayakkara and Dr. S R Kodituwakku

M.Phil. – Zoological Sciences

1. U A Jayawardhana Effect of pesticides and trematode infection on survival, growth and development of malformations in *Polypedates cruciger* and *Bufo melanostictus* (Amphibia: Anura) (2009)
- Place of Research Work : Department of Zoology, University of Peradeniya
Supervisors : Dr. R S Rajakaruna and Dr. A N Navaratne

PGIS ACTIVITIES IN FOCUS ...

SYMPOSIUM ON EFFECTIVE SYNERGIZATION OF WATER RESOURCES AND LANDSCAPE MANAGEMENT



Dr. Sudharma Yatigammana (Chairperson, Board of Study in Zoological Sciences and Symposium Co-coordinator) at the inaugural session held on 4th April 2009 at the PGIS Auditorium

WORKSHOP ON SCIENTIFIC WRITING



PGIS students attending a technical session at the workshop on Scientific Writing held at the PGIS Auditorium on 30th April 2009

WORKSHOP ON WILDLIFE GARDENING



Participants and resource persons at the technical sessions of the workshop on Wildlife Gardening

SHORT COURSES ON GIS AND APPLICATIONS



Participants of the 19th short course on GIS and Applications at the inaugural session held on 29th June 2009 at the PGIS auditorium

Dr. Jagath Gunatilake (Coordinator of the short courses on GIS and Applications) at the inaugural session of the 23rd short course held on 14th December 2009 at the PGIS auditorium

WORKSHOP ON RAPID RESPONSE

THE SHORT COURSE ON HEALTH AND ANESTHESIA



A demonstration

A technical session of the short course

OPENING CEREMONY OF THE PGIS NEW BUILDING



Left: Prof. H Abeygunawardhane (Vice-Chancellor, University of Peradeniya) opening the PGIS new building on July 18, 2009 Right: Prof. B S B Karunaratne addressing the audience at the opening ceremony of the PGIS new building

SHORT COURSE ON APPLICATION OF DISASTER MANAGEMENT PRINCIPLES IN EMERGING EPIDEMICS IN SRI LANKA



Dr. Tikiri Wijayathilaka (Project Manager, Avian Influenza Preparedness and Response Project, Department of Animal Production and Health) addressing the inaugural session of the short course held on 30th July 2009 at the PGIS Auditorium

**NETHERLANDS FELLOWSHIP PROGRAMME (NFP) REFRESHER COURSE ON
“INNOVATIVE APPROACHES TO MULTI-SCALE LANDSLIDE HAZARD AND RISK ASSESSMENT”**



Participants at the inaugural session of the refresher course



Participants at a technical session

**INAUGURAL SESSION OF
2009/2010 MSc PROGRAMMES**



Prof. B S B Karunaratne, Director of the PGIS addressing the new registrants during the inaugural session at the PGIS auditorium

**WORKSHOP ON
LIGHTNING PROTECTION SYSTEMS
AND EARTHING**



A workshop session

**WORKSHOP ON NANOSCIENCE AND NANOTECHNOLOGY: SOME POSSIBILITIES FOR
RESEARCH IN SRI LANKA**



A technical session of the workshop

PGIS - YOUNG RESEARCHERS' FORUM (YRF): SEMINAR SESSIONS



Left: Mr. S Wijeyamohan (M.Phil. student) at PGIS-YRF seminar sessions held on 27th October 2009 Centre and Right: Dr. Rudy Fernandez (Management Consultant, Trainer and Lecturer) addressing on “Expectations of private sector from an employee” at PGIS-YRF seminar sessions held on 17th December 2009 at the PGIS Auditorium

SHORT COURSES ON GIS AND APPLICATIONS



Participants of the 24th Short Course (5th to 10th January 2010)



Participants of the 27th Short Course (28th June to 3rd July 2010) at a field class

ADVANCED SHORT COURSES ON GIS AND APPLICATIONS



Participants of the 5th Advanced Short Course (6th - 11th September 2010) at a field class



Participants of the 6th Advanced Short Course (15th - 20th November 2010) at a technical session

**INTENSIVE COURSE ON
APPLIED EPIDEMIOLOGY**



Dr. Ashoka Dangolla (Co-coordinator of the Intensive Course) at the inaugural session of the course held on 12th March 2010 at the PGIS Auditorium

**INAUGURAL SESSION OF THE
2010/2011 MSc PROGRAMMES**



The inaugural session of the M.Sc. Programmes on 3rd April 2010 at the PGIS Auditorium

WORKSHOP ON TISSUE CULTURE



Participants of the workshop

**5TH SHORT COURSE ON HEALTH AND
ANESTHESIA IN CAPTIVE ELEPHANTS**



A technical session of the course

**TEACHER TRAINING PROGRAMME (CENTRAL PROVINCE) –
GCE (A/L) PHYSICS NEW SYLLABUS**



A technical session of the training programme

**TEACHER TRAINING PROGRAMME
GCE (A/L) BIOLOGY NEW SYLLABUS**



**TEACHER TRAINING PROGRAMME
GCE (A/L) CHEMISTRY NEW SYLLABUS**



Technical sessions of training programmes.

**WORKSHOP ON PRACTICAL COMMUNITY COUNTERMEASURES FOR TSUNAMI AND
EARTHQUAKE DISASTER RISK MITIGATION**



2ND CERTIFICATE COURSE ON APPLIED EPIDEMIOLOGY



**Prof. S H P P Karunaratne (Dean, Faculty of Science)
addressing the audience during the inaugural session
held on 27th November 2010 at the PGIS auditorium.**



M.Sc. DEGREES AND POSTGRADUATE DIPLOMAS AWARDED

M.Sc. Degrees

M.Sc. – Analytical Chemistry

1. R D S Rajapaksha Development of self-cleaning textiles by incorporating photo chemically active TiO₂ nano-particles (2009)
2. E A P Ekanayaka Characterization of deoxyribonucleases from pitcher juice of *Nepenthes distillatoria* (2009)
3. P U Ratnayake Comparison of ripening methods for “Kolikuttu” (*Musa sapientum* L.AAB group) banana (2009)
4. C Magamage Low cost approach on chlorpyrifos residue analysis in vegetables (2009)
5. D M B N Dissanayake Some aspects of manganese (Mn) bio-availability in soils of tea growing areas of Sri Lanka (2009)
6. B W N S K Abeywardana Characterization of acid proteinases of porcine ovaries and analysis of their expression (2009)
7. S B Nayananda Understanding light emitting properties of 8-hydroxyquinoline-resorcinol-formaldehyde polymer metal chelates (2009)
8. H G PKumara *Elaeocarpus serratus*: Anti-oxidant activity and cosmetic applications (2009)
9. A J S Chinthana Mosquito larvicidal activity of plant essential oils and essential oil compounds (2009)
10. S G A L K Karunasena Analysis of market “chinese roll” samples in Kandy municipality area for acrylamide; a probable carcinogen (2009)
11. J K P M Jayakody Quantitative X-ray diffraction analysis of polymorphs in mebendazole drug available in the Sri Lankan market (2010)
12. A M Devasurendra Pesticide residue analysis of drinking water in Girandurukotte area where chronic kidney disease is prevalent (2010)
13. N A D J Bandara Isolation and characterization of a trypsin inhibitor from seeds of *Tamarindus indica* (2010)
14. W G D Chandrasiri Purification and characterization of Phospholipase A₂ of Sri Lankan Russell’s viper (*Vipera russelli russelli*) (2010)
15. M A K D C Kumara Use of low cost materials for the removal of iron from ground water and designing a low cost on site iron detection kit (2010)
16. C D H Geethika Comparative antioxidant activity and quantification of gymnemic acid from Sri Lankan *Gymnema sp.* (2010)
17. R G N Priyantha Gelatinolytic activity in human whole saliva (2010)
18. P A Gayani Anti-oxidant and anti-tyrosinase natural products of *Nymphaea stellata* (2010)
19. I K Indrasena Chemical substances produced by selected microorganisms and their biofilms (2010)
20. V J Bandaranayake Arsenic determination and removal from drinking water (2010)
21. K M P A H Perera An assessment of heavy metal contamination in the marine sediments of Galle harbour (2010)

M.Sc. – Applied Statistics

1. G G D Edirisinghe A study of the influence of school and home environments on the health of children (2009)
2. C L Jayasinghe A study on usage patterns of alcohol, tobacco and drugs among school children in Anuradhapura district (2009)
3. S C J Dissanayake Use of multivariate techniques for classification of rice (*Oryza sativa* L.) germplasm (2009)
4. R M L S Siriwardana Prediction of weather patterns and their relationships with flowering of selected tree species in Sinharaja world heritage site (2009)
5. U C Thalagoda Improving the quality of a soft drink production process using statistical process control (2010)
6. M M M Imran A time series model for wheat flour consumption in Kalutara district (2010)
7. L H S C Menike Growth curve analysis of goat breeds in Sri Lanka (2010)
8. A S N Amarasekara The statistic model for the prediction of the risk level of myocardial infarction (2010)
9. P M S A Ruwan Grass competition and herbivores competition on survivals and growths of transplant seedlings on degraded grassland areas (2010)
10. K A C D Kumbalataru A combined test for the median and the effects of five normality tests of the combined test (2010)
11. E M C P Edirisinghe Analysis of distribution of butterfly species in Sri Lanka (2010)
12. W A N R Silva A software programme for extreme flow predictions - case study of flow at Caledoniya (2010)
13. A A K U Atapattu Comparisons of indicators available for detecting multicollinearity (2010)
14. W L R D Gunathilaka Factors affecting on physical dormancy break of *Ipomeoa hederacea* seeds (2010)
15. A S Kalpage Spatial distribution of soil nutrients in the forest dynamic plot at Sinharaja (2010)
16. N Varathan Statistical modeling of extreme daily rainfall in Colombo (2010)
17. L R Thilakarathne Economic design of Fraction Non-Conforming Quality Control Chart (2010)

M.Sc. – Clinical Biochemistry

1. N G A S S Chandana A study on hormonal levels of subfertile men with idiopathic non-obstructive azoospermia or oligospermia (2009)
2. W A D S N Gregory Dose response relationship of *Salmonella enteritidis* infection in guinea pigs (2009)
3. H M S N Herath Effect of *Lactobacillus bulgaricus* and *Streptococcus thermophilus* on serum lipid profile and total protein concentration in guinea pigs (2009)
4. J M Santhampillai A study on haemoglobin, serum protein concentrations and serum total antioxidant capacity in first year female undergraduates of the University of Peradeniya (2010)

M.Sc. – Computer Science

1. D N Sumanasinghe Visual programming language for JAVA (2009)
 2. R A Uduwela Performance study of software quality management techniques (2009)
 3. S Johnson Library management system in Tamil using barcode (2009)
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4.	C A Sugathadasa	Determination of the performance of a Beowulf cluster by modelling the heat transfer in parallel through a two-dimensional body (2009)
5.	D A N De Silva	Enhanced computer based counting system for coconut mites in microscopic images (2009)
6.	J W Y Seneviratne	Agent application for world wide web searching (2009)
7.	P N N Perera	Design and implementation of a chart application with the observer pattern and the .Net Remoting (2009)
8.	B V Lakshman	Feature extraction and classification of Sinhala fonts (2009)
9.	E S A Gunasinghe	Neural network model for estimating the emission of greenhouse gases in ecosystem with soil factors (2009)
10.	R P Idamekorala	Evaluation and enhancement of weaknesses of the IEEE 802.11b WEP protocol with dynamic key (2009)
11.	K Kethesan	Design and implementing an online system for advertising management (2009)
12.	S Umakajan	School information management system (2009)
13.	S A M J N Senanayake	Application process monitoring system for Dialog Telekom PLC (2009)
14.	P Pavalakanthan	Intelligent Chat bot for chatting with people having stress and depression (2009)
15.	M M Kidhumathullah	Transliteration keyboard configurations for Sinhala and Arabic (2009)
16.	A M A B Adikari	Mobile application for academic library services (2009)
17.	C M M Mansoor	Tamil Search Engine for Unicode standard (2009)
18.	R Bahirathan	An online system to analyze production faults by using process history data (2009)
19.	K C S Weerasooriya	E-Bookstore with Distributed Database approach (2009)
20.	N D K Jayasooriya	E-Medical system: online information system for healthcare industry (2009)
21.	I A K C Samarasinghe	An automated vehicle counting system: counting vehicles in different lanes (2009)
22.	M M M Uwais	Optical Character Recognition (OCR) system for printed Tamil text using the Unicode standard (2009)
23.	S Aravinthan	Objects indexing and cut-out in a sequence of frames (2009)
24.	H D S N Hettige	Online mail tracking system (2009)
25.	S P D S Karunarathna	Call capturing and billing system (2009)
26.	K W E M P Wijesundara	Design and development of an electronic voting system (2009)
27.	M T G D M Jayathilaka	An automated system to construct higher order Steiner Triple System (2009)
28.	B Christophaul	Online bibliographic database for Eastern University library - Sri Lanka (2009)
29.	K P D Bandaranayake	Development of semi-automated system for work piece localization on Computer Numeric Control machines (2009)
30.	W W C N Wataketiya	Online vehicle reservation and monitoring system for the University of Peradeniya (2009)
31.	J B M Hemantha	Information management system for energy purchase in Ceylon Electricity Board (2009)
32.	E M D J K Ekanayake	Development of spatial database for Coastal Resource Profile (CRP) of Sri Lanka (2009)
33.	R I Watagoda	Windows based multi user computerized government payroll management system (2009)
34.	A S D R S Samarakoon	A reference model for next generation Electronic Health Record system (2009)

35.	D M W Dissanayake	Design and implementation of an automatic people identification system using fingerprints (2010)
36.	M A D S S Madurapperuma	Design and development of a digital library (2010)
37.	K Kohilan	Automatic font detection in Tamil document (2010)
38.	I U Gunawardana	Detecting faces in arbitrary images using a simple technique (2010)
39.	T Kishanthan	Recognizing low resolution road sign images using multilayer perceptron neural networks (2010)
40.	N W A I Thilakasiri	Hand written character recognition using image processing and artificial neural network techniques (2010)
41.	B T G S Kumara	Web based automated system for nurse scheduling (2010)
42.	V Sasikumar	An automated paddy variety identification system (2010)
43.	P Kanagasabapathy	A schema driven mapping: managing XML in object-relational database (2010)
44.	H M S Herath	Development of a transparent network security device (2010)
45.	G V D Priyantha	E- tendering system for government procurement process (2010)
46.	A C P K Siriwardhana	Automatic measurement of average length of coconut fiber (2010)
47.	W M C K B Wanigasekara	Design backup and restore add-on for moodle (2010)
48.	W M D Jeewantha	Web based project monitoring system (2010)
49.	R K A R Kariapper	Network based distributed intelligent intrusion detecting system (2010)
50.	W D C Weerasinghe	Vehicle navigation system based on shortest path (2010)
51.	U S Amarasinghe	Analysis and comparison of the performances of data compression algorithms for text files (2010)
52.	A Thayaparan	LANManager: a concurrent management of computers in LANs (2010)
53.	P G R N J Gamlath	Neural network approach to predict milk yield of dairy farm (2010)
54.	S P Kasthuri Arachchi	Developing an online Shopping Cart System for Saweena beauty centre (2010)
55.	H B Kotuwegedara	Applying role based access control for intranet security (2010)
56.	W N C Perera	Network enabled energy measuring system (2010)
57.	D I K Solangaarachchi	Decision support system for the management of patients with community acquired pneumonia (2010)
58.	O S R Somaratne	Results management system for the Faculty of Science of the University of Peradeniya (2010)
59.	H K D D Thilakawansa	Cryptographic techniques with artificial intelligence (2010)
60.	P C N Tissera	Design and development of an online student information and management system for College of Technology, Kandy (2010)
61.	P P Premkumar	Online internal verification system for Edexcel HND programmes (2010)
62.	T A D Nisansala	Developing an information system for analysis of morbidity and mortality statistics for a government hospital (2010)
63.	A W R M Dharmasiri	Cab management system using genetic algorithms (2010)
64.	Y D Fernando	A reference model for disease surveillance system (2010)
65.	S T W H Wimaladharma	GIS application for weather analysis and forecasting (2010)
66.	N G M G Bandara	A reference model for the design pattern automation (2010)
67.	G A M U Ganepola	A web based inventory management and sales system (2010)

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| 68. | A A I D Athapattu | Information management system for universities (2010) |
| 69. | A M D M Abeykoon | Development of an electronic time sheet (2010) |
| 70. | H L Sirajudeen | Web based information system for the provincial, zonal and divisional education offices of central province (2010) |

M.Sc. – Disaster Management

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|----|-----------------------------|--|
| 1. | N K L U A Dias | Development of standard operational procedures for the Special Response Unit in Colombo (2009) |
| 2. | P Thayanathan | Impact of tsunami rehabilitation assistance (special reference to town and gravets divisional secretariat division of Trincomalee district) (2010) |
| 3. | L D R S Kumara | Community disaster response teams for Malawenna village (2010) |
| 4. | K M U Wijeratne | Demining before resettlement a prerequisite; a case study – Mannar Sri Lanka (2010) |
| 5. | W A S M D Weerasinghe | Risk mapping and ecological analysis of human leptospirosis in Kandy, Sri Lanka (2010) |
| 6. | N W A N Y Wijesekara | Establishment of health services for internally displaced persons in Vavuniya, Sri Lanka 2009 (2010) |
| 7. | W A D C H
Wickramasinghe | Rabies post exposure treatment: cost reduction through responsible pet ownership (2010) |

M.Sc. – Environmental Science

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| 1. | G A U P Abeypala | Comparative study of butterfly fauna in three different habitats of the knuckles region, Sri Lanka (2009) |
| 2. | D M P T Dissanayake | Effects of anthropogenic activities in Badulu Oya in Badulla urban area (2009) |
| 3. | R M N A Karunarathna | Chemical and biological studies in Pinga Oya in Katugastota/Akurana area (2009) |
| 4. | S Shanmuganathan | Study on surface-subsurface hydrology in Vavuniya UC limits (2010) |
| 5. | I M A Jayasinghe | Assessment of a risk from exposed acid sulfate soils in the southern highway from Kottawa to Dodangoda (2010) |
| 6. | J S Joseph | A study of the water quality of Diyawanna Oya conducted during the south-west monsoon period (2010) |
| 7. | S B A M B Y Wijayarathna | Levels of polyaromatic hydrocarbons in Kandy city (2010) |
| 8. | E C D A Karunarathne | Bioaccumulation of heavy metals in selected fresh water macrophytes (2010) |
| 9. | S Santharooban | Effect of different industrial effluents on the water quality of Valaichchenai lagoon (2010) |
| 10. | V Ravi | An assessment of drinking water quality of selected dug-wells within the Vavuniya Urban Council of Sri Lanka (2010) |
| 11. | P L C L Liyanage | Distribution of endemic goitre in Kalutara district (2010) |
| 12. | U D Manawadu | Water quality variations of villages around serpentinite bodies at Indikolapelessa, Udawalawa (2010) |
| 13. | S P Thavakiruba | Assessment of nitrate pollution of well water in relation to distance of toilet pit in Vauniya (2010) |

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| 14. | T Piranavamalar | Assessment of pollution sources of the Vavuniya tank and proposing remedial measures (2010) |
| 15. | T Sumanenthiran | Socio-environmental interaction in water quality variations - case study from coastal villages in Ampara district (2010) |

M.Sc. – Experimental Biotechnology

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|----|--------------------|---|
| 1. | M C Vitarana | Establishment and validation of an Immunofluorescence Antibody Test (IFAT) to diagnose <i>Sarcosystis</i> infection in cattle (2009) |
| 2. | T R Kumbukage | Effect of mannan oligosaccharides on some nutritional and biochemical parameters of mice (2009) |
| 3. | M S Maliyadde | A study on <i>in vitro</i> culture conditions for plant regeneration of <i>Santalum album</i> (white sandalwood) (2010) |
| 4. | N T Wickramasinghe | Development of single step reverse transcriptase polymerase chain reaction (RT-PCR) assay to detect Chikungunya virus in clinical samples (2010) |
| 5. | H M I P Herath | Molecular characterization of some Chikungunya virus isolates from 2007/08 outbreak in Sri Lanka (2010) |
| 6. | D M S Sugeeshwari | Effect of nucleotides on some nutritional parameters of mice (2010) |
| 7. | S L D Jayaweera | Genetic diversity and population structure of wild banana (<i>Musa balbisiana</i>) populations in Sri Lanka (2010) |
| 8. | H A Walisinghe | Effect of selenium on some nutritional parameters of mice (2010) |
| 9. | D R Gimhani | Identification of a microsatellite marker linked to thrips (<i>Stenchaetothrips biformis</i>) resistance in rice using bulk segregant analysis (2010) |

M.Sc. – Gemmology

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|----|----------------|--|
| 1. | P R K Fernando | Colour enhancement of Sri Lankan gem-quality quartz by gamma-ray and neutron-beam irradiation (2009) |
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M.Sc. – GIS and Remote Sensing

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|-----|----------------------|---|
| 1. | D N Karunaratne | Use of remote sensing and GIS to estimate area under paddy cultivation (2009) |
| 2. | S B Karunaratne | Modeling land suitability for expansion of rubber cultivation in Monaragala district: a GIS approach (2009) |
| 3. | B S Marasinghe | Developing a GIS based tourism information system for Hambantota district (2009) |
| 4. | P S Pallegama | Development of a GIS based veterinary assistant software (2009) |
| 5. | P B N Abeywardana | GIS based archaeological data management system for Anuradhapura (2009) |
| 6. | K T C Grero | Dynamic detection of land use changes using GIS in Thambuththegama area (2009) |
| 7. | W N C Perera | GIS for effective land use management in plantation sector (2009) |
| 8. | N Thananjeyan | Application of GIS to mitigate soil erosion in upper Kotmale area (2010) |
| 9. | D T De S Wijesundara | Application of aeromagnetic and remote sensing data to map Ranna rock unit (2010) |
| 10. | A K Hettiarachchi | Spatial analysis of soil fertility for better agricultural land management (2010) |

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| 11. | H K Gunasekara | GIS based slope stability models for rain triggered landslide hazard mapping: case study - Rathnapura, Sri Lanka (2010) |
| 12. | S M D A Bandara | A study of urban development in city of Galle using GIS and remote sensing (2010) |
| 13. | E M P U Ekanayake | Site selection for waste disposal using GIS (2010) |
| 14. | H M P Jayantha | Manual of Geographic Information Systems: Volume 1 and 2 (2010) |
| 15. | T Sunthararajah | A web-GIS application for spatial identification of community development projects (2010) |
| 16. | J M P P Jayasooriya | Assessment of data quality and map accuracy of topographic maps (2010) |
| 17. | G W Chandraratne | Cadastral index mapping of temple lands - Udunuwara divisional secretary division (2010) |
| 18. | K P D A K S Jayasinghe | Characterization of thunderstorms over Sri Lanka using weather data in GIS (2010) |
| 19. | P H M P K Senarathne | Sustainable management of natural resources using GIS: a case study in Anamaduwa divisional secretariat division (2010) |
| 20. | C S Rathnayake | Real time GIS mapping solution for GPS enabled remotely operated demining platforms (2010) |
| 21. | B A U I Kumara | Participatory GIS for rural development planning - a case study (2010) |
| 22. | M P Madanayake | Dengue incidence in Mawanella area – a case study (2010) |
| 23. | S H M Manjula | GIS for rural planning in Hambantota district (2010) |
| 24. | B S M Piyasiri | Use of GIS for indexing urban hierarchy (2010) |

M.Sc. – Industrial Chemistry

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|----|------------------|--|
| 1. | N M N I U Kumara | Some formulation studies of toothpaste using eugenol rich flavour and calcium carbonate (2009) |
| 2. | R S Sooriyage | Mosquito larvicidal activity of selected plant extracts and isolation of active ingredient from <i>Pagianta dichotama</i> (2010) |

M.Sc. – Industrial Mathematics

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|----|-----------------|---|
| 1. | B G S A Pradeep | Statistical techniques for soap production process in a local industry (2010) |
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M.Sc. – Medical Microbiology

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|----|--------------------|---|
| 1. | N H Abeykoon | Preliminary studies on development of a PCR based technique for the diagnosis of <i>Trichomonas vaginalis</i> (2009) |
| 2. | J A N S Gunarathna | Prevalence of <i>Naegleria</i> species in water bodies of Maho and Nikaweratiya divisional secretariat divisions (2009) |
| 3. | E H R K Ranasinghe | Isolation of <i>Listeria monocytogenes</i> from ready to eat food products (2009) |
| 4. | C S Surige | Situational analysis of <i>Legionella pneumophila</i> and some physical and chemical properties of cooling tower waters in selected hospitals and tourist hotels (2009) |
| 5. | N D Gunawardena | Molecular identification of methicillin resistance and virulence marker in <i>Staphylococcus aureus</i> (2009) |
| 6. | M B Amunugama | Comparison of clinical and laboratory parameters in the early diagnosis of dengue fever (2010) |

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7. S A H Attanayake Presence of *Trichomonas vaginalis*, *Candida*, *Gardnerella vaginalis* among symptomatic women attending sexually transmitted diseases clinic in Colombo (2010)
 8. L S D Medis Application of polymerase chain reaction for diagnosis of *Dirofilaria repens* in dogs (2010)
 9. U T N Senaratne Establishing a rapid isolation method for *Mycobacterium tuberculosis* (2010)
 10. F H Thahir Establishment of PCR based assay to detect *Dirofilaria* transmission in mosquitoes (2010)
 11. R A P Rupasinghe Identification of pathogenic *Leptospira* serovars in Sri Lanka using polymerase chain reaction (2010)
 12. A B S H Jameel *Cryptosporidium* infection in buffaloes and cattle with special reference to factors contributing to infection (2010)

M.Sc. – Medical Physics

1. V Ramanathan Quality control of gamma camera (2009)
2. A A I S Pathirana Analysis of patient integral radiation dose using Ionization Chamber and Thermoluminescence Dosimeter for external beam radiation therapy (2009)
3. D M C H Bandara Analysis of dosimetric characteristics of virtual wedge (2009)
4. T Pathmathas Tissue compensators in radiotherapy treatment (2009)
5. N Loganathan Effective half life of ^{131}I in thyroid cancer patients (2009)
6. S Balamurali Dosimetric characteristics and optimization for a multislice Computed Tomography (2010)

M.Sc. – Nanoscience and Nanotechnology

1. D M B P Ariyasinghe Instrument and software development for measuring size of nanoparticles using dynamic light scattering (2010)
2. D S K Liyanage Zinc oxide thin films for dye-sensitized solar cell applications (2010)
3. J Akilawasan Dye sensitized solar cell based on hydrothermally synthesized TiO_2 nanotubes (2010)
4. A P Mahavithana Design, manufacture and implantation of custom-made orthopedic bioprostheses for needy patients: nano-range hydroxyapatite coating on roughened stainless steel surfaces (2010)

M.Sc. – Physics of Materials

1. S K Galappaththige Application of dynamic light scattering to probe molecular dynamics in polymer gels (2010)
2. G Gnanaprasam Development and characterization of macroporous ceramic structures (2010)
3. L H C Krishantha Drying behavior of few commercially available paint samples using dynamic light scattering (2010)
4. H M S N Herath Construction of supercapacitors based on activated carbon (2010)

M.Sc. – Plant Sciences

1. K P Prematilleke A case study: vegetation study at the Meethirigala forest reserve (2009)
2. W A T L Weerakkody Impact of Weligama Coconut Leaf Wilt Disease (WCLWD) on morphological, physiological and yield aspects of affected coconut palms (2010)

M.Sc. – Postharvest Technology of Fruits and Vegetables

1. M A S R K Madugalla Comparison of glass and polypropelene jars for canning of some selected fruit and vegetable products (2009)
2. A A M A Ali Harvesting maturity and postharvest fungal diseases in ridged gourd (*Luffa acutangula* var. Indian 19) (2009)
3. S S Piyasiri Extending the storage life of mukunuwenna (*Alternanthera sesilis*) in simulated air freight transportation system (2010)
4. N D V Champika Application of calcium chloride on management of internal browning of pineapple (*Ananas comosus* cv. Mauritius) fertilized with urea (2010)
5. J B L Jayasinghe Effect of variety and handling practices on postharvest disorders and diseases of cassava (2010)
6. S V Ranatungage Optimization of technology to control bitterness development of dehydrated jak fruit flour (2010)
7. Y M Perera Suitability study on different maturity stages of *Averrhoa carambola* L. variety (Honey Sweet) in processing fruit juice (2010)

M.Sc. – Science Education

1. D A D L R Premalal Construction of a dual purpose digital meter to use in physics experiments (2009)
2. R M Siriyalatha Survey on identification and overcoming difficulties in carrying out chemistry practical work in schools in Uva province (2009)
3. T Balachandran The enhancement of experimental aspects in specified practicals in G.C.E. (A/L) chemistry (2009)
4. S Gokulanandan A modified approach to enhance the teaching of the unit “Man and the Environment” in G.C.E. (A/L) chemistry syllabus (2009)
5. V D K Gunawardhane A case study on learning physics through problem based learning approach (2009)
6. S L N V Priyanka A study of the impact of the current G.C.E. (A/L) combined mathematics syllabus on the first year mathematics courses offered by the faculties of science at the undergraduate level (2009)
7. B K Rahman Learning ability of G.C.E. (O/L) students in geometry (2009)
8. D Balasooriya An internet based study package to enhance the understanding of the chemistry of polymers at G.C.E. (A/L) (2009)
9. P L N A Ratnayake Development of some demonstration experiments to teach projectile motion (2009)
10. N Dematage Application of contemporary education strategies to motivate students’ interests in studying electrode equilibria and to develop lifelong learning skills (2009)
11. A H Wanasinghe Validity of objective type test questions for the examination of G.C.E. (O/L) science in English medium (2009)

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12. T L Ishak Relevance of the G.C.E. (A/L) microbiology curriculum for employment and higher education in the central province (2009)
 13. L M G M S Kumari Modification of the G.C.E. (A/L) laboratory experiments by introducing the real world applications to enhance the curiosity of students in chemistry (2009)
 14. G M S I Ariyasinghe Use of an integrated approach to improve science teaching to eighth graders (2009)
 15. M Subadra Self learning study pack for G.C.E. (A/L) biology classes on plant-people relationships in Kandy city and suburbs (2009)
 16. S Uruththiramoorthy Computer based complementary-learning package in rotational motion for G.C.E. (A/L) physics students (2009)
 17. M Sumanapala Strategies for mastering concepts in general chemistry (2009)
 18. K D B Kumara Introducing “household chemistry” for G.C.E. (A/L) chemistry syllabus (2009)
 19. M Z S Shiyana A case study on school projects of the G.C.E. (A/L) curriculum (science stream): views and constraints of students (2009)
 20. M S Vathanie A case study on feasibility of school projects of the G.C.E. (A/L) (science stream) curriculum: views of teacher community (2009)
 21. S M Saluwadana A case study of strengths and weaknesses of Advanced Level Science Education in Sri Lanka (2010)
 22. M Balakrishnan Designing simple activities in fluid mechanics for easy learning for G.C.E. A/L students (2010)
 23. E A R Kumarasinghe Introducing field based teaching technique as a teaching tool for the biodiversity unit in the G.C.E (A/L) syllabus (2010)
 24. R M C K Ratnayake Evolution of organic chemistry content in Sri Lankan schools with special reference to Advanced Level syllabus (2010)
 25. E M W G P Ekanayake Improvement of performance of students through an activity oriented approach to teach enzymes for G. C. E. Advanced Level biology students (2010)
 26. D Prabakaran Developing a supplementary study guide in physics applications in biology and medicine for intermediate level physics (2010)
 27. B A S Kumara Developing and testing the influence of demonstrations in teaching electrostatic unit for G. C. E. A/L students (2010)
 28. V Kanagasabapathy Enhancing student achievement on major biological processes in living organisms through problem based learning (2010)
 29. S I S Wickramasinghe Enhancing student understanding of unit 4: diseases associated with the main systems of the human body by introducing worksheets (2010)
 30. D M T Dissanayake Building students’ interest in chemistry through simple experiments using household chemicals (2010)
 31. Rev. Fr. K G H B Wijeratne Study of conceptual understanding of physics of grade 10 students in the district of Matale (2010)

M.Sc. – Water Resources Management

1. G M A K Gunathilake Development of a hydrological model to predict Kaluganga flow at Ratnapura (2009)
2. L C M K Kulathunga Potential for artificial groundwater recharge in a wellfield: a case study in the north western province (2009)

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| 3. | H M J M K Herath | Hydrogeochemistry of groundwater from two dry zone regions of Sri Lanka (2010) |
| 4. | E G D Dayawansa | Groundwater resources for community water supply schemes: a case study from Minipe - Muttettutenna in the Kandy district of Sri Lanka (2010) |
| 5. | D G S W Pitakumbura | Availability of water resources within the Attanagalla Oya basin – a review (2010) |

Postgraduate Diplomas

Analytical Chemistry

1. T R D S K Tennakoon (2009)
2. W A M Nishanthi (2009)
3. A M C S Amarakoon (2010)
4. U D N T Perera (2010)

Applied Statistics

1. S S Premachandra (2009)
2. W H U Withanarachchi (2009)
3. V Vinayagam (2009)
4. S Mangaleswaran (2009)
5. A S N T R W M S Ambahera (2009)
6. M Ramanan (2009)
7. D R L P Dasanayake (2010)
8. N W E J M D Fernando (2010)
9. V P N Prasadi (2010)
10. N Krishnanandhan (2010)
11. L Miraliny (2010)
12. W P G De Silva (2010)

Clinical Biochemistry

1. W N I Sumanasekera (2009)

Computer Science

1. H M S B Somawijaya (2009)
2. W A S Egodawatta (2009)
3. A M P K Abeyasinghe (2009)
4. M Ketheeswaran (2009)
5. K Satheeskumar (2009)
6. S P Ranasinghe (2009)
7. I M Goonetilleke (2010)

8. A M J Banda (2010)
9. J J Jeevaraj (2010)
10. M H M Rahumathullah (2010)
11. A Abeygunasekara (2010)
12. E K U N Karunadipathy (2010)
13. R M U N Kulatunge (2010)
14. T Sivakumar (2010)
15. S S Gamage (2010)

Environmental Science

1. D W M H W I K Senavirathna (2009)

Experimental Biotechnology

1. J K Dissanayake (2009)

GIS and Remote Sensing

1. I A K S Illeperuma (2010)
2. R M J C Ratnayake (2010)
3. C S Menikpura (2010)
4. Y M K R Seneviratne (2010)
5. M D T D Jayamaha (2010)
6. P D T M Dampagama (2010)
7. K M Prematilaka (2010)
8. B D D S Sarathchandra (2010)
9. B A S Sasanka (2010)
10. C D Hettiarachchi (2010)

Industrial Chemistry

1. C B Amaranayake (2010)
2. W A R S C Lal (2010)

Industrial Mathematics

1. G Jayanthan (2009)
2. S Suvarna (2009)
3. A M P Perera (2009)
4. I S Gamage (2010)
5. J A D Jayasinghe (2010)
6. S M U N Senavirathna (2010)
7. R M C K Gunarathne (2010)
8. K A Pushpakanthi (2010)

Information Technology

1. B M A P Balasuriya (2009)
2. M R C B Chandrasekera (2009)
3. V Lindakumbura (2009)
4. D M A J L Diwakara (2009)
5. E A M A U Janaka (2009)
6. A J Nizar (2009)
7. K H W K G Kahawala (2009)
8. H V I N Nanayakkara (2009)
9. K B D B Dissanayake (2009)
10. G A M N T B Atapattu (2010)
11. G D Dayani (2010)
12. J H N D Jayamaha (2010)
13. C R Jayasundara (2010)
14. K W M S B Kamathewatta (2010)
15. S Kuhananthan (2010)
16. A T Pathirathna (2010)
17. S J M S Samarakoon (2010)
18. S Sivarajah (2010)
19. R Thamilalakan (2010)
20. P Y P Weerasinghe (2010)
21. A M Farook (2010)
22. H M D S B Herath (2010)
23. S P Dayananda (2010)
24. W A A C K Wickramaarachchi (2010)
25. R A P L K Somarathne (2010)
26. K G K D Wijayathilaka (2010)

Medical Microbiology

1. K R W M V K Uduwela (2009)

Medical Physics

1. R W A K Ranatunga (2010)

Oceanography

1. K P Ranaweera (2009)
2. A U Senanayake (2009)

Physics of Materials

1. D R S Gamage (2009)
2. A H N C De Silva (2009)

Plant Sciences

1. R Paskaran (2010)
2. N A R C Somawansa (2010)
3. K Manumathy (2010)

Postharvest Technology of Fruits and Vegetables

1. H M D K Ranasinghe (2009)
2. U P S Gunasekera (2009)
3. R D N P Chandrasena (2010)

Science Education

1. J M D Abeysinghe (2009)
2. A M M A Adikari (2009)
3. A M S G Adikari (2009)
4. H H S Agalawatte (2009)
5. C K Amarasinghe (2009)
6. A M L Atapattu (2009)
7. P A S Dangolla (2009)
8. E D M R M Dhanapala (2009)
9. D M I Dissanayake (2009)
10. B K C Herath (2009)
11. W R M D R S Indrajeewa (2009)
12. M A A S Jayasekara (2009)
13. H P M L K Karunaratne (2009)
14. G P Karunaratne (2009)
15. P M S C Karunaratne (2009)
16. S K M A Khan (2009)
17. P P S Miskitha (2009)

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18. M B Muhammadh (2009)
 19. R P D P Peiris (2009)
 20. M G W S Premalatha (2009)
 21. W D R Priyadarshani (2009)
 22. D N Ranasinghe (2009)
 23. R N D N M Ranathunga (2009)
 24. L R T C Ratnayake (2009)
 25. S M G K Samarakoon (2009)
 26. S M J K Samarakoon (2009)
 27. N B A H S Samarasinghe (2009)
 28. S P C B Senadeera (2009)
 29. D M Senarathne (2009)
 30. R R C H Suraweera (2009)
 31. S M K N Tennakoon (2009)
 32. W C P Wanniarachchi (2009)
 33. K M M W C K Narampanawe (2009)
 34. T M N Jeewapriya (2010)
 35. M S Banu (2010)
 36. M S Dedduwa (2010)
 37. R G G I K Jayasundara (2010)
 38. R M C K Rajaguru (2010)
 39. A M N Atapattu (2010)
 40. D M D C Bopitiya (2010)
 41. T M P R K T Dankanda (2010)
 42. M R Fernando (2010)
 43. A A M Jazil (2010)
 44. M M B U Kumara (2010)
 45. A P Ranatunga (2010)
 46. G K Rupasinghe (2010)
 47. S K Wathurakumbura (2010)
 48. M V D N R Wimalasena (2010)
 49. A M T S Attanayake (2010)
 50. K G I C Koralage (2010)
 51. N P S B Gunathilake (2010)
 52. T M P T Tennakoon (2010)
 53. S D T M S K Dassanayaka (2010)
 54. E M P G S Y Priyadarshani (2010)
 55. M T Zareeha (2010)
 56. M A U S Marasinghe (2010)
 57. N W P N E Perera (2010)
 58. S Sridaran (2010)
 59. B W G Dilhani (2010)
 60. M H M Nawasdeen (2010)
 61. A S M R N C K Ambanwela (2010)
 62. R K Angunawala (2010)
 63. B L S P Balasooriya (2010)
 64. O L N G Chandarasiri (2010)
 65. M G N D Dhanapala (2010)
 66. B H C P Dharmadasa (2010)
 67. D M P R Dissanayake (2010)
 68. L G N Gunathilaka (2010)
 69. P G B Iresha (2010)
 70. G W W S Jayamali (2010)
 71. K D M V Jayathilake (2010)
 72. L G M A Jayathissa (2010)
 73. K T A J Kasturiratna (2010)
 74. P I A K Premawardena (2010)
 75. C M Weerasinghe (2010)
 76. W A N Wickrama Arachchi (2010)
 77. U N Wijesinghe (2010)
 78. A K N S Wimalasena (2010)
 79. D M S C P K Dehideniya (2010)
 80. B R N Dissanayaka (2010)
 81. R P Kalupahanage (2010)
 82. R D Kumari (2010)
 83. M C T Ranathunga (2010)
 84. T Sakeetharan (2010)
 85. R Sathiyaseelan (2010)
 86. N K D Wickramasinghe (2010)
 87. K M P Lakshmi (2010)
 88. M R S Diganwatte (2010)
 89. M V Hapuarachchi (2010)
 90. D R N S Deepali (2010)
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 92. H D G Priyamali (2010)
 93. A V L K B Abeyrathne (2010)
 94. M R M Azhar (2010)
 95. N Vengadeshwaran (2010)
 96. W M C K Wanninayake (2010)
 97. Y M K G H K Senavirathne (2010)
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