



ANNUAL REPORT
&
ACCOUNTS
OF
PGIS
2018

Vision Statement

To be an internationally renowned centre of excellence in Asia for postgraduate education and research in Science

Mission Statement

To contribute to the development of a knowledge – based society with social sensitivity, ethical rectitude and economic prosperity through postgraduate level education and research in science and dissemination of knowledge in an intellectually stimulating, efficiently managed and harmonious academic environment

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01. Director's Statement /Review

The Postgraduate Institute of Science (PGIS) is a National Institute attached to the University of Peradeniya, Sri Lanka, presently approximately 2300 students are registered at PGIS. The PGIS was established in 1996 by an ordinance from the Ministry of Higher Education in order to promote science education and research & development (R&D) in scientific disciplines in Sri Lanka. The principal objective of the Postgraduate Institute of Science is to promote and provide postgraduate instruction, training and research in various scientific specialties, enhancing the graduate academic experience.

The PGIS offers M.Sc., M.Phil. and Ph.D. programmes as well as postgraduate diploma and certificate courses as the main activity to cater to the demand in both the public sector and the private sector in the nation. Many research programmes of the PGIS are conducted with the collaboration of the Faculty of Science, University of Peradeniya and other institutes of the country. In addition, structured and tailor-made training programmes, such as short courses and workshops, are also conducted frequently. GIS and Remote Sensing Applications, Scientific Writing and Data Handling & Management are a few popular short-term programmes conducted by the PGIS. These programmes of the PGIS are conducted through 11 Boards of Study, covering all science disciplines including Science Education. The members of teaching panels are drawn from nine faculties of the University of Peradeniya, as well as from other universities, institutes and industries. A new Board of Study in Biomedical Sciences was established in 2018. The Institute also offers consultancy services to local industry and public/private sector institutions. Sandwich and collaborative research programmes have also been launched with international institutions. Under the ERASMUS scholarship programme, selected students got scholarships to continue their studies in abroad.

The other main activities of the PGIS are to conduct research conferences and symposiums, namely PGIS Research Congress, and other international congress, symposiums and workshops conducted by Boards of Studies, with academic collaboration of both local and foreign participants. More than 130 presentations on novel research findings were made at the Research Congress held in 2018. The Board of Study in Chemical Sciences with the Central Environment Authority organized a workshop on Air Quality Management and Awareness as pre-congress workshop. The PGIS also provides efficient service to its stake holders through its dedicated and well-trained staff, and further, efforts on internationalization has become stronger during the last few years.

The PGIS hopes to achieve its vision in the future by becoming one of the best postgraduate institute in scientific disciplines and research in Asia.

Development of PGIS Laboratories

The PGIS has many laboratories, providing necessary facilities for its students. We are planning to develop our laboratories further so that they will be one of the best places in Sri Lanka. The steps taken to develop our laboratories are given below:

1. **Instrumentation Laboratory I:** Many instruments such as Atomic Emission Spectrophotometer, Gas Chromatograph, Polarizing Microscope, Electrochemical Analyzer, Spectrophotometers are presently housed in this laboratory. Using the self-generated funds, purchasing of new X-ray diffractometer is in progress.
2. **Instrumentation Laboratory II:** This laboratory was initiated in the last quarter of 2016, mainly to strengthen research activities in the areas of Biochemistry, Biotechnology and Molecular Biology. PCR analyzer, Centrifuge, Shaker, Water bath and a few spectrophotometers are available at present. Procurement of a Gel Documentation Apparatus, Ultra-high Water Purification System and a Microwave Digester is in progress.
3. **GIS Laboratory:** The GIS laboratory has been improved vastly in the recent past. Large number of student registered for the M.Sc. programme in GIS & Remote Sensing during last two years. The well-equipped GIS-Laboratory is being used for the practical instruction in computer based processing of geoinformation and numerical modelling.
4. **Computer Laboratory I:** This laboratory has the facility to provide services to about 65 students at a time.
5. **Computer Laboratory II:** is in progress.
6. **Computer Research Laboratory:** This laboratory was developed for six students to carry out their research in Computer Science.
7. **Data Science Unit:** This unit was opened on the day of the 20th Year Anniversary Celebrations of the PGIS, 09th of October 2016. It house about 15 computers. Procurement of as high powered computer is in progress.
8. **Chemical Laboratory:** Glassware and consumables have been purchased for smooth running of laboratory classes for M.Sc. programmes in Analytical Chemistry, Environmental Science and Science Education.
9. **Rock and Soil Mechanics Laboratory:** This laboratory is being developed at present. Once developed, it will be used for laboratory classes of the M.Sc. programme in Engineering Geology and Hydrogeology, and for providing services to the public.
10. **IT laboratory:** Necessary steps have been taken to develop the IT laboratory. Once completed, 65 students can be accommodated at time. The laboratory will be especially designed for students of the M.Sc. in Information Technology (IT) and Postgraduate Diploma programmes in Science Education.

Future Plans

Fitting into the vision and the mission of the PGIS, activities have been planned for the next few years. The 138th meeting of the Board of Management held on 11th November 2017 approved purchasing of items in 2018 including the common list of equipment/utensils to facilitate conducting workshops, conferences, examinations, lectures, subject to the availability of funds.

The following list was approved by the Board.

	<i>Board of Study</i>	<i>Equipment requested</i>	
1	Statistics & Computer Science	Computers	In progress
2	Biochemistry & Molecular Biology	Lab Colorimeter	
3	Chemical Sciences	Ultrapure Water System	
4	Earth Sciences	Geoelectrical Resistivity Equipment (Lund Imaging System)	
5	Environmental Science	X-ray Fluorescence Spectrophotometer	
6	Mathematics	Multimedia Units (03) and Laptops (03)	In progress
7	Physics	Autolab N Series Potentiostat	
8	Plant Sciences	Stereo Microscope	
9	Science Education	Multimedia Units (07) and Laptops (06)	
10	Zoological Sciences	Binocular Microscopes (10)	In progress
11	Common list of equipment	1. Video Conferencing System 2. Electrical Heater Buffet Set 3. Software Package - Grammarly to check plagiarism and grammar 4. Smart White Boards (02) 5. Document Camera (01) 6. Accounting Package	In progress purchased

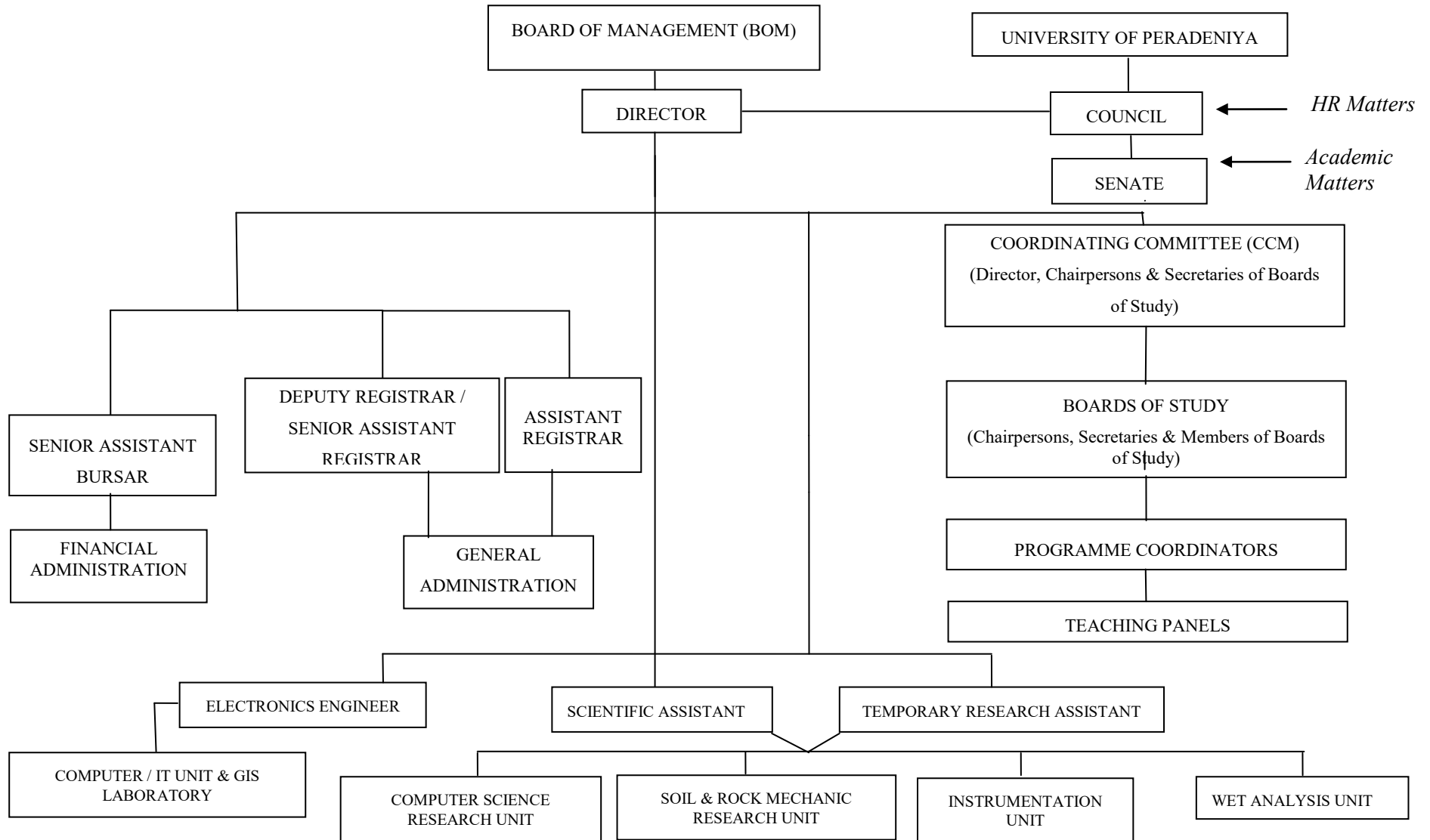
Following itemized specific goals and actions will be taken in the year 2019.

- Further development of laboratories, in particular, the expansion of the Instrumentation Laboratories to be in par with international standards. Purchasing of most needy instruments will be done.
- Constructions of the new building comprises four laboratories, a student services center, cafeteria, staff rooms, discussion rooms, reading rooms and a conference room etc. Furniture and other required facilities for the newly constructing building of PGIS will be acquired.
- Increasing of the number of M.Sc., M.Phil. and Ph.D. students.
- Introduction of new M.Sc. programmes to cater to the demand of the industrial sector of the nation (E.g.: Biomedical Sciences, Data Science, Electronic Materials & Devices, Electrochemical Science & Technology, Pharmaceutical Science, Physics and Applied Geophysics)
- Providing services to the nation through the newly established Data Science Unit.
- Continuation of the PGIS Research Congress, and the International Symposiums
- Initiation of more research conferences with participation of foreign professionals.
- Establishment of new Memorandum of Understandings (MoUs) with other National and International Institutes
- Further strengthening collaborations with foreign universities/institutions.
- Expansion of research programmes of national interest.
- Creating new cadre positions to PGIS cadre.
- Training of Non-Academic staff.
- A Comprehensive evaluation of the current programmes – courses/ research programmes and any outreach activities by the PGIS and planning for new courses relevant to current needs and future trends will be undertaken by him.
- Planning and formulation of new courses for the next decade depending on the national needs and future trends in the scientific field. In this connection, a need assessment survey will be conducted from the most common stake holders prior to planning future PG programmes. The stake holders include the private sector, industries, education, health and other service sector agencies in the state as well as non-state sectors.
- Initiation for the commencement of a much needed Science and Technology Management course to train S & T managers and a M.Sc./ Diploma programme in Technology Education to cater to teachers in the Technology Stream introduced recently at the G.C.E.(A/L). It is extremely important to think ahead and formulate new courses to satisfy current and future demand.

- Organizing and conducting seminars regularly for the research (M.Phil, PhD) students, acting as a second examiner for evaluating thesis to maintain the highest standards of all research degree programmes.
- Undertaking some teaching/ lecture courses in science education, industrial chemistry etc and research supervision if and when necessary.

Acting Director / Postgraduate Institute of Science
University of Peradeniya

ORGANIZATIONAL & OPERATIVE STRUCTURE



02. Details of Resources and Students:

Institute	Course (Coursework)	Intake in 2018	Previous Year intake	Total Academic Staff	Total Non Academic staff
PGIS	M.Sc. in Clinical Biochemistry	-	10	-	-
	M.Sc. in Experimental Biotechnology	-	18	-	-
	M.Sc. in Analytical Chemistry	34	27	-	-
	M.Sc. in Industrial Chemistry	9	13	-	-
	M.Sc. in Nanoscience & Nanotechnology	37	28	-	-
	M.Sc. in Disaster Management	-	22	-	-
	M.Sc. in GIS & Remote Sensing	53	59 (2016)	-	-
	M.Sc. in Environmental Science	27	34	-	-
	M.Sc. in Biodiversity, Ecotourism & Environment Management	-	23	-	-
	M.Sc. in Fish & Wildlife Management	-	9 (2014)	-	-
	M.Sc. in Industrial Mathematics	20	15	-	-
	M.Sc. in Physics of Materials	12	18	-	-
	M.Sc. in Medical Physics	-	6	-	-
	M.Sc. in Medical Microbiology	-	20	-	-
	M.Sc. in Science Education	27	40	-	-
	PG Diploma in Science Education	-	16	-	-
	M.Sc. in Applied Statistics	-	20	-	-
	M.Sc. in Computer Science	66	48	-	-
	PG Diploma in Information Technology	-	11(2013)	-	-
	M.Sc. in Information Technology (New)	-	44	-	-
	M.Sc. in Engineering Geology & Hydrogeology	38	24 (2016)	-	-
	M.Sc. in Water Resources Management	10	11	-	-
	M.Sc. in Applied Epidemiology	-	12	-	-
	M.Sc. in Pharmaceutical Botany (New)	-	12	-	-
	M.Sc. in Gemology & Industrial Minerals	9	5	-	-
	TOTAL	342	545	-	-

* Foot note-no academic staff (All visiting staff)

03. Details of Local Students (Medium of instruction is English):

Board of Study	Course Name	Intake 2018 Ph.D.	Intake 2018 M.Phil.	Intake 2018 M.Sc.	Diploma	No. of Graduated M.Sc/M.Phil./Ph.D. Pl see the foot note*			No. of Diploma Completed
						M.Sc.	M.Phil	Ph.D.	
Biochemistry & Molecular Biology	M.Sc. in Clinical Biochemistry	-	1	-		3	1	1	-
	M.Sc. in Experimental Biotechnology			-		10			4
Chemical Sciences	M.Sc. in Analytical Chemistry	4	7	34		19	6	4	9
	M.Sc. in Industrial Chemistry			9		6			6
	M.Sc. in Nanoscience & Nanotechnology			37		12			1
Environmental Science	M.Sc. in Biodiversity, Ecotourism and Environmental	-	2	-		2	4	2	4
	M.Sc. in Environmental			27		12			9
Earth Science	M.Sc. in Engineering Geology, & Hydrology	-	5	38		10	4	2	4
	M.Sc. in Disaster Management			-		11			2
	M.Sc. in GIS & Remote Sensing			53		18			4
	M.Sc. in Water Resources Management			10		4			3
	Gemology & Industrial Minerals			9		-			1
Plant Sciences	M.Sc. in Medical Microbiology	-	-	-		4	-	3	1

	M.Sc. in Plant Sciences			-		-			-
	M.Sc. in Post-harvest Technology of Fruits and Vegetables			-		-			-
	M.Sc. in Pharmaceutical Botany			-		6			-
Physics	M.Sc. in Physics of Materials	1	1	12		3	1	2	2
	M.Sc. in Medical Physics			-		5			2
Science Education	M.Sc. in Science Education	2	1	27		10	-	-	-
	PG Diploma in Science Education			-	-	-			21
Statistics & Computer Science	M.Sc. in Applied Statistics	1	1	-		2	4	-	8
	M.Sc. in Computer Science			66		40			8
	PG Diploma in IT			-		-			-
	M.Sc. in Information Technology			-		10			-
Mathematics	Industrial Mathematics	-	-	20		4	-	-	11
Zoology	Applied Epidemiology	-	1	-		5	1	1	6
	Fish & Wildlife Management			-		-			1
TOTAL		8	19	342	-	196	21	15	107

* Note: Students graduated are from the previous batches

04. Details of Foreign Students:

Institute	Course	Medium	Intake 2018	1 st year students	2 nd year students	3 rd year students	4 th year students	No of graduated
PGIS	Gemmology & Industrial Minerals	English	02	-	-	-	-	-

05. Details of Academic Staff (Visiting):

Institute	Subject	Medium	Senior Professor/ Professor/ Assoc. Professor	Senior Lecturer/ Lecturer	Instructor
PGIS	Experimental Biotechnology	English	06	05	14
	Analytical Chemistry		06	12	17
	Industrial Chemistry		15	16	05
	Clinical Biochemistry		06	19	04
	Biodiversity, Ecotourism & Environment Management		08	09	05
	Nanoscience & Nanotechnology		18	25	06
	Disaster Management		04	17	-
	Engineering Geology & Hydrogeology		05	14	01
	Gemology and Industrial Minerals		10	21	01
	GIS & Remote Sensing		03	16	04
	Water Resources Management		11	12	-
	Environmental Science		09	10	09
	Industrial Mathematics		02	10	-
	Information Technology		04	11	02
	Physics of Materials		04	11	05
	Science Education		23	53	02
	Medical Microbiology		08	28	01
	Pharmaceutical Botany		16	31	05
	Diploma in Science Education		01	13	-

	Applied Statistics		03	11	-
	Computer Science		04	09	02
	Applied Epidemiology		05	10	-
	TOTAL		171	363	83

06. Details of Academic/Non-Academic Staff:

Institute	Designation		No. of Staff Members
PGIS	Academic Staff	Director	01
		Professor	-
		Visiting Professor	
		Senior Lecturer	01
	Academic Support Staff	Temporary Research Assistant	01
		Scientific Assistant	01
	Administrative Staff	Deputy Registrar	01
		Senior Assistant Bursar (Acting Deputy Bursar)	01
		Senior Assistant Registrar (Assistant Registrar)	01
	Other Executive	Electronic Engineer	01
	Technical Staff	Audio Visual Technical Officer	01
		Technical Officer	01
	Clerical and Allied Grades	Clerk	04
		Book Keeper	01
		Computer Applications Assistant	03
		Stenographer	02
		Clerk cum data entry operator	01
		Shroff cum Stores Clerk	01
		Management Assistant	02
		Library Assistant	-
	Primary Staff	Driver	02
		Labourer	03
	Total		29

07. Details of Research, Innovation and Publications:

Subject	Published	Commercialized	Presented
a. No. of Researches			
b. No. of Innovations			
c. No. of Journals	-		
d. No. of Books	2		
e. No. of Articles			
f. Others	Patents 01		

08. (a) . 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 <i>musa</i> spp. By microbial fermentation
Supervisors: Prof. S Sotheeswaran , Dr. U S K Welivegamage and Prof. R G C S Rajapakse |
| 04. U G R L Wanniarachchi | 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.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.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 Ariyaratne 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 Taxonomy, biogeography and evolutionary relationships of thalloid liverworts and hornworts of Sri Lanka
Supervisors: Dr. S C K Rubasinghe, Dr. D G Long and Dr. L L Forrest

Ph.D. – 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

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 Wijayasinghe 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 Abeyssekara
06. D S N K Liyanagamage In vitro antioxidant, in vivo antihyperglycaemic and antihyperlipidaemic activities of combined plant extract used in traditional medicine
Supervisors: Prof. V Karunarathna, Dr. S Jayasinghe and Prof. A P Attanayake

M.Phil. – Earth Sciences

01. H P T S Hewathilake Development of Sri Lankan graphite as an anode material for rechargeable 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 quaternary 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 Kulasoorya and Prof. C B Dissanayake
02. P Jegathan Knowledge, practices and attitudes of fruits and vegetable farmers on pesticide usage and effect of three commonly used pesticides on common hourglass tree frog, *Polypedates cruciger* 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 algorithms 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 activated carbon
10. P G R S Hemapala Effect of chitosan clay composite coatings on quality traits of Chicken 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 coconut toody and sprit
13. G H S D Pathmasiri Defluoridation 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 iodide 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 to central 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 spirometry 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 |
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M.Sc. – Computer Science

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|-----|----------------------------|--|
| 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 Pinnaduwege | 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 Dehiye	Coursework M.Sc. degree
39.	V Sathananthu	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.	K Arjunan	Spatial distribution of parthenium hysterophorus and association of native flora in parthenium sp. Dominated habitats in Vavuniya, Sri Lanka

M.Sc. – Disaster Management

01.	H M C Ekanayake	Assessment of the occurrence of dental fluorosis in relation with groundwater 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 dengue and determination of knowledge, attitudes and practices and association of sociodemographic factors in high risk areas of Trincomalee north 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 industries of export processing zone, Katunayake- Sri Lanka: from the perspectives of four case studies
06.	K Sivendram	The study of groundwater quality crises and best management practices in Jaffna Peninsula - Sri Lanka
07.	N D K B Niyangoda	Gaps and shortcomings of the emergency response in Sri Lanka (with special reference to floods and landslides)
08.	T M R K Thennakoon	Vulnerability analysis of the Daduru Oya floods in the Ganewatta divisional secretariat division
09.	S Kokularajah	Development of a community participatory and cost effective hazard risk sensitive spatial database to multiwaikkal west division
10.	S Suthakaran	Flood risk assessment through GIS technology: a case study in Mannar north divisional secretariat of Batticaloa, Sri Lanka
11.	S Shanmugarajah	Investigation of factors affecting 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 Dehiyavita-Daraniyagala-Nooriya road in Kegalle District
03.	M P K G Jayatilaka	Relationship of rock mass rating and tunneling quality index for metamorphic rocks in North Central and Central Provinces, Sri Lanka
04.	M D S L Karunadasa	Investigation, instrumentation and monitoring for mitigation of landslides: an application in Kahagalla landslides, Sri Lanka
05.	C N Subasinghe	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 Ariyaratna	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	Determination of soil respiration in up-country tea growing regions of Sri Lanka
05.	K Kanchana	Economic valuation of mangrove ecosystem in Jaffna peninsula
06.	K M D P Kodithuwakku	Performance of Garnet filter media for filtration of algae 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 Lumnitzeria 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) 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 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 rna 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 Thiruchenthuran	Partial purification and characterization of extracellular lipase from cladosporium cladosporioides
10.	U H K Dissanayake	Morphological and molecular characterisation and consumer preference 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 secretariats in sri lanka

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

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|-----|----------------------|--|
| 01. | L A A H Gunathilaka | Antimicrobial and antioxidant activity of essential oil from allspice (pimenta dioica L. Merr) |
| 02. | S Sithamparapillai | Use of phyllanthus emblica plant materials to treat well water in Jaffna municipal council area |
| 03. | A M R Ruwan | Comparison study of activated carbon, activated rice husk ash and activated sweet corn cob for wastewater treatment |
| 04. | U B D Perera | Determination of tetramethylthiuram 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

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|----|------------------------|---|
| 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 approach to model wind speed forecasting |
| 4. | T Varathalingarajah | A theoretical and analytical study of abruptly stopped axial Couette flow in annular region |

M.Sc. – Medical Physics

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|-----|----------------------|---|
| 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 Fluoroscopic Examinations On A Conventional Fluoroscopy 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

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|-----|------------------|---|
| 01. | G G K Vidyarthne | 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 lactamase 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

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|-----|------------------|---|
| 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 novel protein to protect telomere against telomerase: an approach towards cancer therapy
04.	K Sivanathan	Synthesis of nano-silica from two popular varieties of rice husk 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 counter electrode 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.	H K D W M K U K Hapuhinna	Characterization of natural pyrite (FeS ₂) for thermoelectric applications
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

06.	A A U N Samarakoon	junior secondary school 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 Priyadarshane	Groundwater recharge mechanism of artesian wells and geothermal springs of Sri Lanka: a combined environmental isotope and hydrochemical study

(b) Details of Workshops, Short Courses, Symposia – 2018

Event	Coordinator(s) (Board of Study)	Date(s)	No. of Participant s
76 th (101 st) Short Course on GIS & Applications [Funded by United Nations' Development Programme (UNDP)]	Dr. J Gunatilake (Earth Sciences)	Jan 15-20	30
8 th Workshop on Scientific Writing for PGIS students	Dr. NC Bandara (PGIS)	Feb. 17-18	90
77 th (102 nd) Short Course on GIS & Applications for staff from institutions of Central, North Central, North Western, Uwa and Sabaragamuwa Provincial Councils [Funded by United Nations' Development Programme (UNDP)]	Dr. J Gunatilake (Earth Sciences)	March 12-17	36
National Training Programme on "Application of Disaster Risk Assessment for Development Planning and Effective Emergency Response" for Disaster Management Center (DMC) staff [In collaboration with DMC, Asian Disaster Preparedness Centre (ADPC), United Nations Office for Outer Space Affairs (UNSPIDER - UNOOSA), International Water Management Institute (IWMI), Asian Preparedness Partnership (APP)]	Dr. J Gunatilake (Earth Sciences)	March 26-30	35

9 th Workshop on Scientific Writing for PGIS students	Dr. NC Bandara (PGIS)	May 5 - 6	113
78 th (103 rd) Short Course on GIS & Applications	Dr. J Gunatilake (Earth Sciences)	June 25 - 30	15
6 th International Symposium on Water Quality and Human Health	Prof. S Yatigammana Mr. C Wijesundara (Environmental Sc.)	July 13 - 14	106
26 th (104 th) Advanced Short Course on GIS & Applications	Dr. J Gunatilake (Earth Sciences)	July 16 - 21	16
79 th (105 th) Short Course on GIS & Applications	Dr. J Gunatilake (Earth Sciences)	Aug. 13 - 18	20
10 th Workshop on Scientific Writing for PGIS students	Dr. NC Bandara (PGIS)	Aug. 18 - 19	94
Pre-Conference Workshops: “Bridge to Japan-2018” and “Workshop on Opportunities for Higher Education in Japan”	SL-Japan Study Centre (SLJSC), Embassy of Japan in	Aug. 31	50 238
6 th Conference on Sri Lanka-Japan Collaborative Research (SLJCR 2018)	SL, International Affairs Office & PGIS	Sep. 1	125
11 th Workshop on Scientific Writing for PGIS students	Dr. NC Bandara (PGIS)	Oct. 13 - 14	115
80 th (106 th) Short Course on GIS & Applications	Dr. J Gunatilake (Earth Sciences)	Oct. 22 - 27	47
3-Day Residential Workshop on Spatial Data Management for NSDI Working Group for ICTA [81 st (107 th) Short Course on GIS & Applications]	Dr. J Gunatilake (PGIS)	Oct. 31 – Nov. 2	42
Pre-Congress Workshop on Air Quality Management and Awareness	Dr. ACA Jayasundara (Chemical Sciences)	Nov. 8	130
PGIS Research Congress 2018 (5 th)	Dr. Jagath Gunatilaka Dr. S Atukorala (PGIS)	Nov. 9 - 10	302
Navy Officers’ Educational Tour	Dr. A Pinidiyaarachchi (PGIS)	Nov. 16	30
CKDu Conference-2018	Faculty of Science & PGIS	Dec. 8 - 9	150 (17 foreigners)
Seminar/Mainstreaming Water Professional to create a water-	International Affairs	Dec. 13	52

12 th Workshop on Scientific Writing for PGIS students	Dr. NC Bandara (PGIS)	Dec. 15 - 16	90
Short Course on Data Analysis using R and RStudio	Prof. P Wijekoon Dr. S Abeyesundara (Stat. & Comp. Sc.)	Dec. 27 - 28	38
Workshop on Career Guidance	Dr. WD Chandrasena (Science Education)	Dec. 27	42
Total			2023

* BMGF - Bill and Melinda Gates Foundation, TU - Tulane University, DRLA - Disaster Resilient Leadership Academy and ADPC - Asian Disaster Preparedness Centre

09. Details of Awards Received

Subject	No. of Awards	No. of Academics* ** Administrative	No. of Students
a. Local Awards (PGIS Scholarships) Awards for best presentation (PGIS Congress)	01		
b. National Awards			
c. International Awards (ERASMUS Mobility scholarship)			
d. Others			

* PGIS has only Visiting Academics

10. Details of New Courses Started

Institute	Course	Medium	PG Diploma	Masters	M. Phil.	Ph.D.
PGIS	-	-	-	-	-	-

11.Details of Recurrent Expenditure:

Subject	2017 (Rs.)	2018 (Rs.)
a. Personal Emoluments	39,762,926.00	52,133 ,500.00
b. Traveling	1,206,084.00	564,092.00
c. Supplies	4,553,634.00	3,512,987.00
d. Maintenance	1,872,485.00	3,529,330.00
e. Contractual Services	4,750,277.00	5,393,399.00
f. Others	10,580,199.00	14,229,986.00
TOTAL	62,725,605.00	79,363,294.00

12. Capital Expenditure:

Subject	2017 (Rs.)	2018 (Rs.)
a. Acquisition of Furniture & Office Equipment	4,410,650.00	507,581.00
b. Acquisition of Machineries (Laboratory Instruments)	10,149,485.00	11,733,996.00
c. Acquisition of Building & Structures	23,932,009.00	46,356,709.00
d. Others	-	

13. Details of Projects Expenditure (Local/Foreign Funded) Year 2018

Name and Details	Grant No.	Funding Agency	TCE Rs.	RFA Rs.	DF Rs.
NSF/SCH/2018/11	6281	National Science Foundation	2,551,300.00		
Ms. P M Weeraratne		National Science Foundation			
NSF/PDRS/2018/01	6280	National Science Foundation	2,799,410.00	--	--
Dr. C L Vithana					
NSF/PSF/ICRP/2017/EA& ICT/03 Dr. Nanda Gunawardena		National Science Foundation	3,069,000.00	--	--
NSF/SCH/2018/06		National Science Foundation	2,554,200.00	--	--
Biodiversity Secretariat Grant		Ministry of Mahaweli		--	--

Prof H M S P Madawala		Development & Environment	275,000.00		
RG/2017/EB/05	6276	National Science Foundation	2,181,100.00	--	--
Dr. N P S Kumburegama					
RG/2017/BS/03	6275	National Science Foundation	2,940,000.00	--	--
Prof. R M G Rajapakse					
NSF/PDRS/2017/01	6274	National Science Foundation	1,880,000.00	--	--
Dr. M C S Perera					
RPHS/2016/CKDu/06	6273	National Science Foundation	7,000,000.00	--	--
Prof. Rohana Chandrajith					
Biodiversity Secretariat Grant	6272	Ministry of Mahaweli Development & Environ.	250,000.00	--	--
Dr. N.S.P.Kumburegama					
Biodiversity Secretariat Grant	6271	"	193,000.00	--	--
Dr. K.M.G.G.Jayasooriya					
Biodiversity Secretariat Grant	6270	"	250,000.00	--	--
Dr. S.C.K.Rubasinghe					
NARP/16/UP/PGIS/01(CARP)	6269	Ministry of Agriculture	3,704,200.00	--	--
Prof. B.M.R.Bandara	CARP Grant				
RG/2016/BS/01	6268		4,975,000.00	--	--
Prof. R.M.G.Rajapakse		National Science Foundation			
RG/2016/BS/05	6267		4,059,500.00	--	--
Dr. C.V.Hettiarachchi		National Science Foundation			
RG/2016/EB/01	6266		2,295,425.00	--	--
Dr.S.C.K.Rubasinghe		National Science Foundation			
RG/2016/BS/02	6265		4,147,000.00	--	--
Prof. A.Wickramasinghe		National Science Foundation			
Consultancy Project (RRDI)	6263		990,000.00	--	--
Prof. J.G.S. Ranasinghe					
RG/2015/EB/02	6262	National Science Foundation	3,663,210.00	--	--
Dr. J.W. Damunupola		Foundation			
Indo-Sri Lanka Joint Research Project	6259	Ministry of Science ,	9,255,000.00	--	--
Prof. H A H Jayasena		Technology & Reseach			

RG/2014/EB/04	6257	National Science Foundation	3,521,100.00	--	--
Dr. S. Meegaskumbura					
RG/2014/EB/02	6256	National Science Foundation	2,959,400.00	--	--
Dr. Mrs. S Pancharaja					
UGC Scholarship Grant	6252	UGC	500,000.00		
Dr. Rupika Rajakaruna					
iHETC Project Ms. L C P T Liyanaarachchi	6248	HETC Project	1,550,000.00	--	--
Foreign Grants					
Spatiodiversity	6230	Gelmholtz-Zentrumfur	8,099,000.00	--	--
Prof. I A U N Gunatillake					
ADPC	6255	Asian Disaster	16,637,807.16	--	--
Prof. B S B Karunaratne		Preparedness Center			
ADPC	6255 A	"	736,986.00	--	--
Dr. J.P. Liyanage					
ADPC	6255 B	"	928,789.56	--	--
Prasanna Chandith					
ADPC	6255 C	"	247,173.49	--	--
S. Karunakaran					
ADPC	6255 D	"	2,318,464.56	--	--
Prof. Weerasinghe					
Prof. M A K L Dissanayake	6260	Swedish Research	5,338,100.64	--	--
		Council Grant			
Prof. Rohana Chandrajith	6250	International Foundation	7,635,115.46	--	--
		for Science sweden	109,504,281.87		

14. Details of Projects Expenditure (Local/Foreign Funded) 2018

Grant No.	Name of Grantee	Funding Agency	TCE Rs.	Expen. Up to 2017	expen. In 2018	Cumulative Expen.	% Physical	Remarks
6281	NSF/SCH/2018/11	NSF Grant	2,551,300.00	--	120,000.00	120,000.00	5%	--
	MS.P M Weeraratne							
6280	NSF/PDRS/2018/01	NSF Grant	2,799,410.00	--	--	--	0%	--
	Dr. C L Vithana							
6279	Biodiversity Secretariat Grant	Ministry of Mahaweli	275,000.00	--	50,000.00	50,000.00	18%	--
	Prof. H M S P Madawala	Development & Environment						

6278	NSF/PSF/ICRP/2017/EA&ICT/03	NSF Grant	3,069,000.00	--	--	--	0%	--
	Dr. Nanda Gunawardena							
6277	NSF/SCH/2018/06	NSF Grant	2,554,200.00	--	415,728.00	415,728.00	16%	--
	Ms. M Premaratne							
6276	RG/2017/EB/05	NSF Grant	2,181,100.00	394,373.25	938,065.04	1,332,438.29	61%	--
	Dr. N P S Kumburegama							
6275	RG/2017/BS/03	NSF Grant	2,940,000.00	285,100.00	618,055.20	903,155.20	31%	--
	Prof. R M G Rajapakse							
6274	NSF/PDRS/2017/01	NSF Grant	1,880,000.00	117,194.00	480,277.00	597,471.00	32%	--
	Dr. M C S Perera							
6273	RPHS/2016/CKDu/06	NSF Grant	7,000,000.00	1,150,067.56	6,321,585.30	7,471,652.86	107%	--
	Prof. Rohana Chandrajith							
6272	Biodiversity Secretariat Grant	BDS Grant	250,000.00	231,955.00	14,000.00	245,955.00	98%	--
	Dr.N.S.P.Kumburegama							
6271	Biodiversity Secretariat Grant	BDS Grant	193,000.00	69,134.81	--	69,134.81	36%	--
	Dr.K.M.G.G.Jayasooriya							
6270	Biodiversity Secretariat Grant	BDS Grant	250,000.00	128,400.00	--	128,400.00	51%	--
	Dr.S.C.K.Rubasinghe							
6269	NARP/16/UP/PGIS/01(CARP)	CARP Grant	3,704,200.00	2,231,366.48	235,393.55	2,466,760.03	67%	--
	Prof.B.M.R.Bandara							
6268	RG/2016/BS/01	NSF Grant	4,975,000.00	1,573,404.70	465,000.00	2,038,404.70	41%	--
	Prof.R.M.G.Rajapakse							
6267	RG/2016/BS/05	NSF Grant	4,059,500.00	2,042,716.84	1,198,611.45	3,241,328.29	80%	--
	Dr.C.V.Hettiarachchi							
6266	RG/2016/EB/01	NSF Grant	2,295,425.00	2,008,350.00	646,260.49	2,654,610.49	116%	--
	Dr.S.C.K.Rubasinghe							
6265	RG/2016/BS/02	NSF Grant	4,147,000.00	1,751,505.85	652,609.30	2,404,115.15	58%	--
	Prof.A.Wickramasinghe							
6263	Consultancy Project (RRDI)		990,000.00	162,613.00	83,000.00	245,613.00	25%	--
	Prof. J.G.S. Ranasinghe							
6262	RG/2015/EB/02	NSF Grant	3,663,210.00	2,557,094.44	510,445.99	3,067,540.43	84%	--
	Dr. J.W. Damunupola							
6259	Indo-Sri Lanka Joint Research Project		9,255,000.00	9,244,338.36	--	9,244,338.36	100%	--
	Prof. H A H Jayasena							
6257	RG/2014/EB/04	NSF Grant	3,521,100.00	2,550,423.52	719,537.35	3,269,960.87	93%	--
	Dr. S. Meegaskumbura							
6256	RG/2014/EB/02	NSF Grant	2,959,400.00	2,581,411.14	332,988.86	2,914,400.00	98%	--
	Dr. Rupika Rajakaruna							
6252	Dr. Mrs. S Pancharaja	UGC Scholarship Fund	500,000.00	398,971.62	28,471.15	427,442.77	85%	--

6248	HETC Project	HETC	1,550,000.00	1,107,969.89	442,030.11	1,550,000.00	100%	--
	Ms. L C P T Liyanaarachchi							
	Foreign Grants							
6230	Spatiodiversity	Gelmholtz-zentrumfur	8,099,000.00	7,358,438.54	152,852.00	7,511,290.54	93%	--
	Prof. I A U N Gunatillake							
6255	ADPC	Asian Disaster	16,637,807.16	13,554,006.98	--	13,554,006.98	81%	Balance Transferred to
	Prof. B S B Karunaratne							Research Scholarship fund
6255 A	ADPC	„	736,986.00	210,000.00	--	210,000.00	28%	„
	Dr. J.P. Liyanage							
6255 B	ADPC	„	928,789.56	315,084.62	--	315,084.62	34%	Balance Transferred to
	Prasanna Chandith							Research Scholarship fund
6255 C	ADPC	„	247,173.49	233,554.00	--	233,554.00	94%	„
	S. Karunakaran							
6255 D	ADPC	„	2,318,464.56	1,843,878.01	--	1,843,878.01	80%	Balance Transferred to
	Prof. Weerasinghe							Research Scholarship fund
6260	Prof. M A K L Dissanayake	Swedish Research	5,338,100.64	4,637,268.51	448,612.00	5,085,880.51	95%	--
		Council Grant						
6250	Prof. Rohana Chandrajith	Swedish Research Link	7,635,115.46	6,187,150.14	99,300.00	6,286,450.14	82%	--
			109,504,281.87		14,972,822.79			

15. Details of Financial Progress (Expenditure)

Subject	Provision in 2018 Rs.	Exp. In 2018 Rs.	Savings / Excess Rs.
a. Recurrent except Projects	84,839,000.00	79,363,294.00	
b. Capital except Projects	60,000,000.00	56,850,000.00	
c. Project – Local funded			

16. Details of Financial Progress (Generated Income)

Subject	Provision in 2018 Rs.	Collection in 2018 Rs.	Deficit / Surplus Rs.
a. Undergraduate Students	-	-	-
b. Postgraduate Students	69,839,000.00	112,356,757.00	
c. Consultancies			-
d. Others			-
TOTAL			-

17. Financial Performance Analysis – 2018:

Subject	Formula	Exp. Per student
		Rs.
Ph.D.	$\frac{\text{Expenditure} + \text{Depreciation}}{\text{No. of Students}}$	56,433.00
M.Phil.		51,100.00
M.Sc.		45,000.00

18. Students' Statistics (2007 – 2018)

Year	Yearly Admissions/Enrolments Diploma/M.Sc./ M.Phil./Ph.D.	No. awarded Diploma/M.Sc./ M.Phil./Ph.D.	Dropped out/Fail
2007	378	171	14
2008	348	140	22
2009	273	182	-
2010	325	275	-
2011	481	163	01
2012	135	150	04
2013	410	255	21
2014	434	253	01
2015	657	184	-
2016	646	317	10
2017	444	357	01
2018	369	339	02
TOTAL	4900	2786	76

Postgraduate Diplomas were offered for those who have not reached the required GPA (above 3.00) / unable to complete the research project for the M.Sc. degree.

M.Sc. Minimum 18 months duration; M. Phil. Minimum 2 years duration;

Ph.D. Minimum 3 years duration

19. Sustainable Development Programmes Implemented at the Postgraduate Institute of Science in 2018

- Propose garbage segregation programme & introduce separate bins
- Handover segregated waste to authorized collectors
- Waste Paper and polythene were segregated and recycled.
- Cylinders of laboratories were located outside the building with proper attachments to the building. Leak free gas lines are provided under a colored lines into laboratories
- Researchers are asked to use fume hoods for their solvent based activities to avoid chemical poisoning and hazards. Fume hoods are designed to release air pollutants with proper mechanism.
- Laboratory users have been instructed to wear lab coats and safety glasses during their sessions at the laboratory.
- Introduce autoclaving method for the disposal of bio hazardous waste
- Chemical wastes are directed to specially allocated sinks and the sinks are draining into special underground pits as liquid waste management plan
- Trees and decorator plants have been placed outside and inside the buildings as environmental protection green method
- Standard chemical storage cabinets have been used and chemical storing is done under standard conditions and locations
- Safety equipment including fire safety equipment and standard lab protecting have been located properly
- Exhauster fans have been placed inside laboratories and class rooms for air circulation
- Introduced paperless effective communication system. Email, MIS and newly introduced SMS system
- Promote efficient use of energy
 - Replace bulbs with Light-Emitting Diode (LED)
 - Introduce motion sensing bulbs
 - Introduce solar power plant to generate clean energy
 - Conducting capacity building programmes to promote the efficient use of energy

20.Sustainability Development Related Research Conducted during 2019

1. "DISTRIBUTION AND ENVIRONMENTAL PREFERENCE OF PHYTOPLANKTON AND ZOOPLANKTON OF SELECTED RESERVOIRS IN SRI LANKA"
2. "ASSESSMENT OF ENVIRONMENTAL IMPACTS OF THE MAHAWELI DIVERSION SCHEME DOWNSTREAM OF POLGOLLA"
3. "A VIFAUNAL DIVERSITY IN NATURAL AND HUMAN-MODIFIED HABITATS IN KITHULGALA, SRI LANKA"
4. "DEVELOPMENT OF ENVIRONMENTAL MANAGEMENT MODELS FOR MARINE ECOTOURISM IN THE MALDIVES: A CASE STUDY OF HULHUMALE AND UKULHAS ISLANDS"
5. "SPATIAL DISTRIBUTION OF PARTHENIUM HYSTEROPHORUS AND ASSOCIATION OF NATIVE FLORA IN PARTHENIUM SP. DOMINATED HABITATS IN VAVUNIYA, SRI LANKA"
6. "ECONOMIC VALUATION OF MANGROVE ECOSYSTEM IN JAFFNA PENINSULA"
7. "RECLAMATION OF ACID SALINE SOIL BY ORGANIC AMENDMENTS"
8. "HYDROGEOCHEMICAL CHARACTERISTICS OF GROUNDWATER IN WILGAMUWA REGION: AN AREA WITH HIGH INCIDENCE OF CHRONIC KIDNEY DISEASE WITH UNCERTAIN ETIOLOGY (CKDU)"
9. "FORMULATION OF LOW COST NUTRIENT MEDIUM FOR CULTIVATION OF MICROALGAE SPIRULINA PLATENSIS"
10. "CHEMICAL CHARACTERIZATION OF ATMOSPHERIC DEPOSITION IN KANDY, SRI LANKA"
11. "CHEMICO-GEOGRAPHY OF SELENIUM AND ITS IMPACT ON FOOD CHAIN QUALITY AND ANIMAL HEALTH IN SRI LANKA"



**POSTGRADUATE INSTITUTE OF SCIENCE
UNIVERSITY OF PERADENIYA
P.O. BOX 25
PERADENIYA**

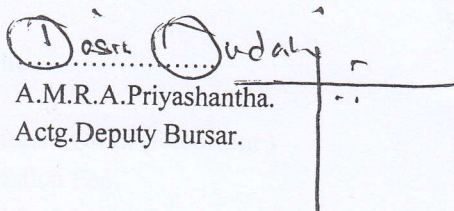
Financial Statements 2018

POSTGRADUATE INSTITUTE OF SCIENCE

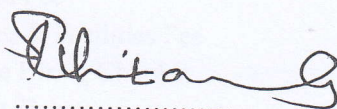
STATEMENT OF FINANCIAL POSITION AS AT 31ST DECEMBER 2018

	Note	As at 31/12/2018	As at 31/12/2017
		<u>Rs.</u>	<u>Rs.</u>
Current Assets			
Cash & Cash Equivalents	1	53,741,254	59,832,732
Receivable	2	12,822,145	10,961,666
Loan & advances to staff	3	1,281,035	1,103,027
Inventories	4	2,500,410	2,407,198
Other Advances	5	6,639,360	19,396,913
Total Current Assets		76,984,204	93,701,536
Non Current Assets			
Loan & advances to staff	3	2,760,620	2,518,166
Investments	6	398,687,080	328,050,018
Financial misappropriation		50,338,160	-
Intangible asset		256,500	-
Work in Progress	7	97,111,814	37,819,678
Property, Plant & Equipments	8	88,690,667	94,383,830
Total Non Current Assets		637,844,841	462,771,692
Total Assets		714,829,045	556,473,228
LIABILITIES			
Current Liabilities			
Accrued expenses	9	5,406,586	16,982,076
Other payables	10	21,131,294	7,641,647
Refundable deposits	11	7,647,196	6,395,066
Differed Income		3,051,830	10,771,527
Provisions	12	10,132,852	4,848,059
Total Current Liabilities		47,369,758	46,638,373
Non Current Liabilities			
Provision for Gratuity		6,678,275	7,426,579
Funds	13	11,781,238	1,105,148
Refundable deposits	11	3,043,000	3,630,500
Total Non Current Liabilities		21,502,513	12,162,227
TOTAL LIABILITIES		68,872,271	58,800,600
NET ASSETS		645,956,773	497,672,628
EQUITY			
General Reserves		471,196,030	394,407,562
Restricted Funds	14	17,079,162	23,972,571
Capital Grant		139,859,074	59,953,916
Revaluation Reserve		17,822,507	19,338,579
TOTAL EQUITY		645,956,773	497,672,628

These financial statements are in compliance with the requirements of the University Act. No. 16 of 1978 and other statutory provisions.


A.M.R.A. Priyashantha.
Actg. Deputy Bursar.

The Board of Management is responsible for the preparation and presentation of these financial statements signed for and on behalf of the Board of Management


.....
Prof. H.M.T.G.A. Pitawala
Actg. Director.

The Accounting Policies and Notes on pages 7 to 11 from an integral part of these Financial Statements.

27.02.2019

POSTGRADUATE INSTITUTE OF SCIENCE

STATEMENT OF FINANCIAL PERFORMANCE
FOR THE YEAR ENDED 31ST DECEMBER 2018

Revenue	Note	<u>2018</u> <u>Rs.</u>	<u>2017</u> <u>Rs.</u>
Government Grant (Recurrent)		10,000,000	12,423,000
Examination Fee		1,536,028	1,464,000
Tuition Fee		71,307,308	59,793,331
Registration Fee		3,212,500	3,370,730
Miscellaneous Income		3,322,444	3,371,057
Research Congress Income		1,078,950	-
Medical Fee		60,010	60,250
Services & Facilities Fee		606,500	40,080
Vehicle Hiring Charges		368,045	548,220
Library Tickets		651,000	651,905
Supervision Fee		813,500	816,000
Interest Income	14	28,627,972	24,954,664
Bench Fee		772,500	733,500
Exchange Gain/Loss		27,214,023	3,038,894
Amortization of Capital Grant	15	11,544,842	8,709,699
		<u>161,115,621</u>	<u>119,975,330</u>
Expenses			
Personal Emoluments	16	52,133,500	37,762,926
Travelling	17	564,092	1,206,084
Supplies & Consumables	18	3,512,987	4,553,634
Maintenance	19	3,529,330	1,872,485
Contractual Services	20	5,393,399	4,750,277
Other Expenses	21	14,229,986	10,580,199
Depreciation	22	20,291,449	17,697,413
		<u>99,654,743</u>	<u>78,423,019</u>
Net surplus/deficit for the year		61,460,877	41,552,311

POSTGRADUATE INSTITUTE OF SCIENCE

Cash Flow statement for the year ended 31st December 2018.

	2018	2017
	Rs.	Rs.
Cash Flows from Operating Activities		
Surplus from Ordinary Activities	61,460,877	39,552,811
Adjustment made for non cash involving transaction		
Depreciation	20,291,449	17,697,413
Amotization of capital grants	(11,544,842)	(8,709,699)
Interest income	(28,467,530)	(24,642,620)
Increase Provision for Audit Fees	956,103	320,933
Provision for Gratuity	(224,274)	1,386,798
Increase Provision for Security Charges	88,260	168,360
Increase Provision for Visiting Lecturer Fees	4,136,031	3,674,649
Increase Provision for cleaning services	104,400	
Employee Benefits	-	312,044
Exchange Gain/Loss	-	(3,038,894)
Workshop course & other	-	(11,159)
Operating surplus before the working capital changes	46,800,474	26,710,636
Increase/Decrease recevables	(241,970)	(2,960,060)
Increase/Decrease loans & advances	(431,262)	(428,017)
Increase / Decrease inventories	(93,212)	(774,440)
Increase /Decrease accrued expenses	(1,380,320)	(2,167,540)
Increase/Decrease payables	7,053,718	3,391,067
Increase/ Decrease refundable deposits	664,630	1,292,000
Increase/ Decrease differed income	(7,719,697)	(539,110)
Increase/ decrease provision	-	(4,014,238)
Net cash Flow from Operating Activities	44,652,361	20,509,799
Cash Flows from Investing Activities		
Purchase of Property Plant & Equipments	(18,203,819)	(10,309,688)
Purchase of Intangible assets	(126,500)	-
Payments for working progress	(44,747,808)	(23,972,008)
Investments	(70,637,062)	(43,504,468)
Interest income	26,853,219	24,642,620
Net cash Flow from Investing Activities	(106,861,969)	(53,143,544)
Cash Flows from Financing Activities		
Government Grant	56,850,000	37,200,000
Scholarship funds	49,722	1,105,148
Research Grant Receipts	14,191,230	21,762,613
Research Grant payments	(14,972,822)	(17,098,778)
Net Cash Flows from Financing Activities	56,118,130	42,968,983
Exchange Gain from foreign Traslation		
Increase / Decrease in Cash & Cash Equivalent	(6,091,478)	10,335,240
Cash & Cash Equivalent at the Beginning of the Year	59,832,732	49,497,492
Cash & Cash Equivalent at the End of the Year	53,741,254	59,832,732

POSTGRADUATE INSTITUTE OF SCIENCE

STATEMENT OF COMPARISON BUDGET & ACTUAL
FOR THE YEAR ENDED 31ST DECEMBER 2018

Revenue	Note	2018 Actual Rs.	2018 Budget Rs.
Government Grant (Recurrent)		10,000,000	15,000,000
Examination Fee		1,536,028	1,400,000
Tuition Fee		71,307,308	43,198,000
Registration Fee		3,212,500	3,450,000
Miscellaneous Income		3,322,444	2,110,000
Rescon Income		1,078,950	1,050,000
Medical Fee		60,010	84,000
Services & Facilities Fee		606,500	410,000
Vehicle Hiring Charges		368,045	360,000
Library Tickets		651,000	850,000
Supervision Fee		813,500	755,000
Interest Income	14	28,627,972	15,432,000
Bench Fee		772,500	740,000
Exchange Gain/Loss		27,214,023	-
Amortization of Capital Grant	15	11,544,842	-
		<u>161,115,621</u>	<u>84,839,000</u>
Expenses			
Personal Emoluments	16	52,133,500	50,715,000
Travelling	17	564,092	2,450,000
Supplies & Consumables used	18	3,512,987	6,417,000
Maintenance	19	3,529,330	3,445,000
Contractual Services	20	5,393,399	6,781,000
Other Expenses	21	14,229,986	15,031,000
Depreciation	22	20,291,449	-
		<u>99,654,743</u>	<u>84,839,000</u>
Net surplus/deficit for the year		61,460,877	-

POSTGRADUATE INSTITUTE OF SCIENCE

STATEMENT OF CHANGES IN NET ASSET/EQUITY
FOR THE YEAR ENDED 31ST DECEMBER 2018

	Capital Grant	Revaluation Reserve	Retain Earnings	Total
Balance as at 01.01.2018	59,953,916	19,338,579	394,407,562	473,700,057
Adjustment for Financial misappropriation	34,600,000		13,811,518	48,411,518
Surplus/Deficit for the period			61,460,877	61,460,877
Capital Grant received	56,850,000			56,850,000
Transfer to General Reserve		(1,516,072)	1,516,072	-
Amortization of Grant	(11,544,842)			(11,544,842)
Balance as at 31 December 2018	139,859,074	17,822,507	471,196,030	628,877,611

Notes to the Final Statements

1 Significant Accounting Policies

1.1. General Policies

1.1.1 Reporting Entity

The Postgraduate Institute of Science (PGIS) was established in 1996 by an ordinance made by the University Grants Commission under section 18 with section 24 of the Universities Act No 16 of 1978.

1.1.2 Principal activities and nature of operations

The principal objective of the PGIS is providing, promoting developing higher education in science.

1.1.3 Basis of preparation

(a) Statements of Compliance

The Financial Statements comprise the statements of financial positions, statements of financial performance, statements of changes in equity, cash flow statements, notes to the financial statements and statement of comparison of budget and actual amounts.

The Financial Statements of the PGIS are prepared in conformity with Sri Lanka Public Sector Accounting Standards and relevant Sri Lanka Accounting standards for the accrual basis of accounts. All accounting policies adopted by the PGIS are applied consistently with those of the previous year, where necessary comparative figures have been adjusted to conform to the changes, in presentation of current year figures.

(b) Basis of measurement

The Financial Statements of PGIS are prepared under the historical cost convention and do not take into account changes in money values, except where it is stated.

(c) Functional and presentation currency

The Financial Statements are presented in Sri Lankan Rupees, which is the institute functional and presentation currency.

(d) Going concern

The Financial Statements have been prepared on a going concern basis.

1.2 Assets and the basis of their valuation

1.2.1 Property, Plant & Equipment

Land, Buildings, Laboratory and Teaching Equipment, Furniture & Fittings, Library Books and Periodicals, Motor Vehicles, and Other Assets include the items acquired out of government grant, research grants, internally generated funds, and donations.

(a) Basis of Recognition and Measurement

Property, Plant and Equipment are recognized if it is probable that future Economics benefits associated with the item will flow to the entity and the cost of the items can be reliably measured. Property, plant and equipments are recorded at cost less accumulated depreciation. The cost of property, plant and equipment is the cost of purchase or construction together with any incidental expenses there on.

(b) Cost

The cost of property, plant and equipment comprises its purchase or construction cost and any directly attributable cost of bringing the assets working condition for its intended use.

(c) Subsequent expenditure on existing Fixed Assets

Expenditure incurred on tangible fixed assets is charged to the Statement of Financial Performance in the period it is incurred, unless it meets one or the following criteria, in which case it is capitalized and depreciates on the relevant basis.

- Market value of fixed assets has subsequently increased.
- Asset capacity increase.
- Sustainable improvement in the quality of output or reduction in operating cost.
- Significant extension of the asset life beyond that confirmed by repair and maintenance.

(d) Depreciation

Depreciation is recognized in the Statements of Financial Performance on a Straight-Line Method over the estimated useful life of Property, Plant and Equipment items from the date that they were made available for use. Lands are not depreciated. The estimated useful life periods are as follows.

<u>Description</u>	<u>Estimated useful life period</u>
Laboratory, teaching equipments	20%
Motor vehicles	20%
Library Books and Periodicals	20%
Telephone	10%
Other Equipments	20%
Building	05%

The method of depreciation is adopted in using the rates in the UGC circular 649, and hope to continue in future.

(f) Land

The ownership at the Land on which the new building of the PGIS is being constructed has not yet been transferred to the PGIS. Hence the value of the land not taken in to account. However it is noted that PGIS is attached to the university of Peradeniya (PGIS ordinance No 01 of 1996 dated 12th February 1996)

(g) Inventories

Inventories are stated at the lower of cost and net realizable value. In general, cost is determined on a first in first out basis and includes expenditure incurred in acquiring the inventories and bringing them to their existing condition and location.

1.2.2 Capital works in Progress

Capital work-in-progress is stated at cost. These are expenses of a capital nature directly incurred in the construction of property, plant and equipment awaiting capitalization. Capital work-in-progress would be transferred to the relevant asset category in property, plant and equipment, when it is available for use i.e., when it is in the location and condition necessary for it to be capable of operating in the manner intended by the university.

1.2.3 Intangible Asset

An intangible asset is recognized only when its cost can be measured reliably and it is probable that the expected future economic benefits are attributable to it will flow to the university.

The Blue lotus 360 (upgraded version) Accounting software is on the development phase as at 31/12/2018. All the criterias are satisfied as per the SLPAS 20 to identify the cost of intangible asset arising from development phase. Amortization will be commenced from 2019, once the upgration of accounting software fully completed.

1.2.4 Receivables

Receivables are stated at the amounts they are estimated to realize.

1.2.5 Cash & cash equivalents

Cash & cash equivalents comprise cash & deposits saving at bank.

The receipts & payments of the foreign currency of the RFC 2233593US\$ account, maintained at the Bank of Ceylon, Peradeniya Branch is converted in to local currency at the Exchange rate existing on the dates of receipts and payments. Exchange gain/ loss has been calculated by using the Central bank year end exchange rate (31/12/2018 Closing rate).

1.2.6 Adjustment of Financial Misappropriation amount of Rs 50,338,160.18

As per the final forensic audit report issued by Auditor General Department on 26/07/2018, They identified the capital loss incurred due to obtaining money anomalously by cancelling fixed deposit by former Senior Assistant Bursar Mr W.M.M.S.M Iddawala as Rs 50,338,160.18 (Excluding redeposit amount of Rs 5,000,000.00) .Further in their report they identified that interest income of Rs 24,346,723 has been lost due to fraudulently withdrawn fixed deposit by Mr. W.M.M.S.M Iddawala from 14/03/2008 to 30/11/2017.

This was disclosed in the final accounts of 2017 as notes to the accounts .After getting proper approval from Audit & Management committee , Finance committee and the Board of Management the adjustments were made in the accounts of 2018 as per findings in the Auditor General Forensic Audit Report and in line with the SLPSAS 03 (Accounting Policies ,Changes in Accounting Estimates and Errors) for capital loss amount of Rs 50,338,160.18 (Fifty million three hundred thirty eight thousand one hundred sixty and cents eighteen only).Court case is going on at the Kandy Magistrate court under case No MC/B43167/17.

1.3 Liabilities & Provisions

All known liabilities as at the balance sheet date are included in the financial statements and adequate provisions are made for liabilities which are known to exist but the amount of which cannot be determined accurately. Liabilities payable after one year from the balance sheet date are treated as noncurrent liabilities in the balance sheet.

Provision has been made in the financial statements for all unclaimed lecture fees, based on the respective approved budget.

1.3.1 Employee Benefit

Provision for Gratuity

The provision for gratuity as at 31/12/2018 has been calculated by using Actuarial Valuation method prescribed Sri Lanka public sector Accounting Standard 19 (Employee Benefits).

University Provident Fund (UPF) & University Pension Fund

The university and employees, contribute 15% or 7% and 10% respectively, on the salary of each employee to the University provident fund in line with the respective statutes and legislation in Sri Lanka and University Act. Also the university contributes 8% to the University Pension Fund in respect of pensionable employees.

Employees' Trust Fund (ETF)

The university contributes 3% on the salary of each employee to the Employees Trust Fund.

1.3.2 Accounting for Grants

Grants that compensate the PGIS for expenses incurred are recognized as revenue in the income statement in the same period in which the expenses are recognized. Grant that compensate the institute for the Cost of an asset is recognized in the income statement on a systematic basis over the useful life of the related asset. As per the Sri Lanka Accounting Standard 20 the PGIS adopted income approach accounting principal when identifying capital grants.

1.3.3 Research and Scholarships fund & Work shop & event fund

Research and development fund has been created by transferring the old research balances, and work shop and event fund has been created by transferring old unclaimed workshops balances, with the approval of the finance committee and the Board of Management.

1.4 Income Statement

1.4.1 Revenue Recognition

Revenue is recognized on accrual basis.

(a) Interest income is recognized on accrual basis.

(b) Revenue from grants is recognized in the period in which they were received.

(c) Sponsorship related activities are recognized on receipt.

(d) Other income is recognized on accrual basis.

(e) Government Grants

Grants received from General Treasury of Sri Lanka I comprised capital and recurrent grants. Grants that compensate the PGIS for expenses incurred are recognized as revenue in the income statement in the same period in which the expenses are recognized. Grant that compensate the institute for the Cost of an asset is recognized in the income statement on a systematic basis over the useful life of the related asset.

Total grant received for the year was Rs.66,850,000.00. This has been used as follows

	<u>2018</u>
Government Grant for Recurrent Expenditure	10,000,000.00
Capital Grant for Rehabilitation	850,000.00
Capital grant for Equipment, Book & Periodicals	12,000,000.00
Capital Grant for Constructions	44,000,000.00
Other	
Total	66,850,000.00

(f) Income from workshops, short courses and seminars

The administrative charges for workshop, Short courses and seminars is disclosed under the miscellaneous income.

1.4.2 Expenditure

Expenditure other than the research grant has been recognized on accrual basis and charged to the revenue in ascertaining the income over expenditure. Expenditure relating to research grant has been identified on cash basis.

1.5 Comparative Information

The comparative figures have been disclosed in the financial statement where necessary.

Cash Flow Statement

The cash flow statement has been prepared using indirect method according to SLPAS 02

<u>Cash & cash equivalents</u>	Note	2018 Rs	2017 Rs
	1		
Cash at bank 0001273990		5,774,737	8,313,746
Cash at bank 0001274002		4,811,734	5,707,944
Cash at bank 0571001911338034		1,958,529	9,595,186
Cash at bank 057100161338035		1,997,890	5,181,000
RFC		11,659,821	9,472,136
Cash at Bank A/C 81041788		12,342,279	8,874,950
Saving a/c		15,196,264	12,687,768
		53,741,254	59,832,732
<u>Receivables</u>	2		
Accrued Interest		12,064,857	10,457,148
Vehicle hiring charges		175,687	138,961
Prepayments		317,519	146,475
Receivable deposit		2,500	2,500
Sundry debtors		98,132	98,132
Deposits for services		100,000	70,000
Miscellaneous advance		63,450	48,450
		12,822,145	10,961,666
<u>Loans & advances to staff</u>	3		
	Current	Non Current	Total
Distress loan	1,029,661	2,451,296	3,480,957
Computer loan	82,000	106,500	188,500
Vehicle loan	157,814	177,494	335,308
Staff loan	11,560	25,330	36,890
Salary advance			5,000
	1,281,035	2,760,620	4,041,655
<u>Inventories / Stock</u>	4		
Stationary		1,254,815	1,013,671
Chemical stock		1,245,594.40	1,393,526
		2,500,410	2,407,198
<u>Other advances</u>	5		
Mobilization advances		6,639,360	19,396,913
		6,639,360	19,396,913
<u>Investments</u>	6		
Fixed deposits at BOC		37,195,291	1,347,200
Fixed deposits at NSB		2,200,000	2,200,000
Fixed deposit RFC		157,039,208	127,472,763
Fixed deposits at People's bank		202,252,580	197,030,054
		398,687,080	328,050,018
<u>Work in progress</u>	7		
PGIS new building		97,111,814	37,819,678
		97,111,814	37,819,678

Property, plant & Equipment

(Note 8)

Cost	Building	Telephone	Laboratory & Teaching Equip.	Library Books	Motor Vehicle	Office Equipments	Rs. Total
Opening Balance as at 1st January 2018	77,867,050	528,000	74,527,792	9,274,251	16,320,091	12,055,784	190,572,968
Adjustments/Disposals							
During the year Additions	2,356,709	-	11,733,996	-	-	507,581	14,598,286
Closing Balance as at 31st Dec. 2018	80,223,759	528,000	86,261,788	9,274,251	16,320,091	12,563,365	205,171,254
Less Depreciation							
Opening balance as at 1st January 2018	23,267,356	309,624	42,424,650	8,371,837	12,940,603	8,875,068	96,189,138
Adjustments/Disposals							
During the year Additions	3,917,911	51,400	12,995,857	379,941	1,982,628	963,711	20,291,449
Accumulated depreciation as at 31st December 2018	27,185,267	361,024	55,420,508	8,751,778	14,923,231	9,838,779	116,480,587
Net Book Value as at 31st December 2018	53,038,492	166,976	30,841,281	522,473	1,396,860	2,724,586	88,690,667

Restricted Funds		Note 14	2018 Rs	2017 Rs
Grant No	Grantee Name			
6002	Prof. M A K L Dissanayake		-	18,465
6074	Prof.K.Dhanayake		1,926,642	
6130	Dr. S R Kodituwakku		-	926
6142	Ms. Tilini Tilipan		144,496	144,496
6225	Prof. Namal Priyantha		-	703,470
6230	Prof. I A U N Gunatilleke		163,609	316,461
6242	Dr. A.Pitawala & Dr. H.A.Darmagunawardene		-	141,514
6244	Prof. Namal Priyantha		-	17,700
6246	Prof. M A K L Dissanayaka		-	67,600
6248	Prof.B.M.R.Bandara		-	442,030
6249	Dr.K.G.N.Nanayakkara		-	4,433
6250	Prof. Rohana Chandrajith		62,739	162,039
6252	Dr.Mrs.S.Punchraja		72,557	101,028
6255	Director, PGIS		-	5,930,040
6255 A	Dr.J.P.Liyanage		-	526,987
6255 B	Presanna Chandith		-	613,705
6255 C	S Karunakaran		-	13,619
6255 D	Prof. Weerasinghe		474,587	474,587
6256	Prof.Rupika Rajakaruna		-	332,989
6257	Dr.S.Meegaskumbura		-	608,576
6259	Prof. H A H Jayasena		10,662	10,662
6260	Prof. M A K L Dissanayake		150,420	599,032
6262	Dr. J.W. Damunupola		362,953	362,857
6263	Prof. J.G.S. Ranasinghe		143,887	226,887
6265	Prof.A.Wickramasinghe		1,446,985	1,369,594
6266	Dr.S.C.K.Rubasinghe		117,135	452,121
6267	Dr.C.V.Hettiarachchi		843,172	1,255,783
6268	Prof.R.M.G.Rajapakse		1,536,595	786,595
6270	Dr.S.C.K.Rubasinghe		121,575	121,575
6271	Dr.K.M.G.G.Jayasooriya		8,065	8,065
6272	Dr.N.S.P.Kumburegama		4,020	18,020
6273	Prof.Rohana Chandrajith		2,528,347	5,849,932
6274	Dr.M.C.S Perera		1,282,529	877,806
6275	Prof.R.M.G.Rajapakse		651,945	730,000
6276	Dr.N P S Kumburegama		1,149,661	682,977
6277	Ms.H.M.K.M.Premaratne		401,372	-
6278	Dr.Nanda Gunawardena		1,343,750	-
6279	Prof.H.M.S.P.madawala		224,950	-
6280	Dr.C.L.Vithana		999,410	-
6281	Ms.P.M.Weeraratne		907,100	-
			<u>17,079,162</u>	<u>23,972,571</u>

	Notes	2018	2017
<u>Accrued expenses</u>	9		
Accrued expenses - Recurrent		4,761,061	5,617,352
Accrued expense - Capital		645,526	11,364,723
		<u>5,406,586</u>	<u>16,982,076</u>
<u>Payables</u>	10		
Stamp duty payables		12,775	11,975
Payee tax		361,192	324,849
Book sale commission payable		10,623	10,623
Other Payable-Board of Study	10.1	1,147,176	790,177
Other Payable-Short Course & Workshop	10.2	10,564,439	6,493,887
Security Bond		11,251	10,136
Retention		9,023,839	
		<u>21,131,294</u>	<u>7,641,647</u>
<u>Other Payable-Board of Study</u>	10.1		
Board of study in chemical sciences		8,100	8,100
Board of study in earth sciences		963,849	630,150
Board of Study in enviromental science		1,625	1,625
Board of study in physics		11,740	11,740
Board of study in plant sciences		1,725	1,725
Board of study in science education		68,625	68,625
Board of study in computer science		39,550	16,250
Board of study in zoological science		51,962	51,962
		<u>1,147,176</u>	<u>790,177</u>

<u>Other Payable-Short Course & Workshop</u>	Notes 10.2	2018	2017
Postgraduate certificate course		-	79,506
4th W/S on Thin Film Solar cells		-	70,568
Certificate course in Teaching Methodology		154,736	154,736
60 S/C on GIS		-	51,000
65 SC on GIS		-	212,500
19th Advance S/C on GIS application		-	124,659
67 S/C on GIS application		-	143,971
20th Advance S/C on GIS application		-	135,313
68 S/C on GIS application		-	563,912
21 Advance S/C on GIS application		-	87,865
69 S/C on GIS application		-	294,474
05th International Symposium on water quality		-	1,837
70 S/C on GIS application		-	267,913
22 Adv S/C on GIS application		-	271,500
W/S on data science & big data		-	217,155
71 S/C on GIS Application		-	391,787
04 W/S on Scientific Data Management		36,715	36,715
Seminar on Air pollution & Human		-	24,625
23rd Adv S/C on GIS application		342,160	324,570
W/S on climate change & development		-	194,276
W/S on Lichens		-	4,542
72nd S/C on GIS application		654,097	679,097
W/S on the extraordinary world		-	5,579
75th SC on GIS Application		-	25,008
74th S/C on GIS application		362,050	440,150
24th Advance S/C on GIS		993,097	1,298,833
W/S on time series Analysis & Data			20,537
W/S on effecet of climate change		4,724	51,724
25th Advance S/C on GIS		487,210	318,535
International symposium on water quality		-	1,000
A S/C on R & R Studio		10,463	-
73rd S/C on GIS		405,406	-
76th S/C on GIS		442,650	-
77 S/C on GIS & Application		890,030	-
S/C on ICTA		2,460,000	-
Tailor-Made S/C on GIS		150,000	-
78th S/C Gis and Application		14,074	-
26th advance S/C on GIS		197,301	-
DMC Training Programme		570,450	-
79th S/C on GIS		302,664	-
80th S/C on GIS		1,076,076	-
W/S on Air Quality Awareness & Mgt		10,537	-
ICMME-Conference		1,000,000	-
		<u>10,564,439</u>	<u>6,493,887</u>

Deposits

	11		2018	2017
	Current	Non current	Total	
Library deposits	4,296,614	1,636,000	5,932,614	5,572,614
Science deposits	3,286,358	1,407,000	4,693,358	4,390,858
Other deposits	62,094	-	62,094	62,094
Refundable deposit	2,130	-	2,130	
	<u>7,647,196</u>	<u>3,043,000</u>	<u>10,690,196</u>	<u>10,025,566</u>

Provisions

	12			
Provision for Audit fees			1,961,153	1,005,049
Provision for security			256,620	168,360
Provision for lecturer fees			7,810,680	3,674,649
Provision for Cleaning Services			104,400	-
			<u>10,132,852</u>	<u>4,848,059</u>

Funds

	13			
Scholarship Fund-Amarasinghe			1,154,870	1,105,148.00
Research & Scholarship Funds			8,038,458	-
Workshop & Event Fund			2,587,910	-
			<u>11,781,238</u>	<u>1,105,148</u>

	Notes	2018	2017
<u>Interest Income</u>			
Fixed Deposit Interest	14	27,841,051	23,285,697
RFC Interest		204,984	172,036
Staff Loan Interest		160,442	452,282
Savings Interest		421,496	1,044,649
		28,627,972	24,954,664
<u>Amortization of Capital Grant</u>			
Building	15	36,475	34,892
Lab & Teaching Equipment		10,742,480	8,015,024
Library Book		349,862	248,745
Office Equipments		416,024	411,038
		11,544,842	8,709,699
General Administration and Staff Services			
Personal Emoluments			
Personal Emoluments (Academic)			
Salaries and Wages	16	1,083,012	1,576,832
U.P.F		179,314	237,063
Pension		204,931	270,930
E.T.F		76,848	101,599
Academic Allowance		1,385,020	1,670,169
Other Allowances			53,560
Additional Allowance		183,446	226,295
Gratuity		-	129,291
Adjustment All			-
COL		93,600	139,620
Research Allowance		321,031	396,016
Staff Benefits		-	1,380
Visiting Lecture Fees Note 17.01		20,373,840	11,792,602
		23,901,043	16,595,356
Personal Emoluments (Non academic)			
Salaries and Wages	16	11,902,526	8,904,685
U.P.F		1,648,586	1,103,357
Pension		1,115,170	667,114
E.T.F		553,430	353,898
Overtime		1,991,452	1,802,826
Holiday Payments		509,037	405,170
Other Allowances		11,150	7,336
Monthly Compensation Allowance - MCA		3,984,029	2,019,783
Gratuity		-	1,257,507
Research Allowance		539,976	256,923
Additional Allowance 20%		1,960,031	1,217,540
Adjustment All		909,884	1,667,559
Cost of Living		2,477,003	2,209,740
Staff Benefits		133,538	415,633
		27,735,812	22,289,069
Personal Emoluments (Casual)			
Casual Wages	16	496,645	878,500
		496,645	878,500

	Notes	2018	2017
Travelling and Subsistence	17		
Travelling Expenses (Domestic)		564,092	1,038,840
Travelling Expenses (Foreign)			167,244
		<u>564,092</u>	<u>1,206,084</u>
Supplies	18		
Stationery & Office Requisites		1,533,210	1,284,143
Fuel & Lubricant		518,866	532,065
Uniform & Tailoring		23,197	18,537
Mechanical & Electrical		237,404	201,485
Chemicals & Glassware		1,200,310	2,517,404
		<u>3,512,987</u>	<u>4,553,634</u>
Maintenance	19		
Vehicles		845,372	543,807
Plant, Machinery & Equipments		2,504,348	1,038,853
Building & Structure		179,610	289,826
		<u>3,529,330</u>	<u>1,872,485</u>
Contractual Services	20		
Telecommunications		1,977,174	1,525,037
Postal Charges		271,081	268,140
Electricity		840,586	1,004,419
Security Services		1,005,755	951,214
Water Charges		43,794	29,952
Cleaning Services		1,255,008	971,515
		<u>5,393,399</u>	<u>4,750,277</u>
Other Recurrent Expenditure	21		
Printing and Advertising		1,113,693	856,795
Audit Fee		956,103	320,933
Special Services Council & Commit.		1,120,817	1,171,766
Special Services Professional & Other		42,362	48,251
Workshops & Seminars		771,663	424,477
Academic Research		39,103	21,048
Staff Development		842,421	1,918,882
Holiday Warrant		21,340	14,150
Bank Charges		69,003	68,973
Awards & Indemnities		775,000	-
Examination Expenses		4,349,810	4,277,038
Other - Newspaper, Magazines		1,560,126	968,763
Staff Welfare		201,910	127,495
Convocation		500,000	-
PGIS Research Congress		1,842,711	335,754
Stamp Duty		23,925	25,875
		<u>14,229,986</u>	<u>10,580,199</u>
Depreciation	22		
Building		3,917,911	3,893,352
Telephone		51,400	52,624
Lab & Teaching Equipment		12,995,857	10,275,227
Books and Periodicals		379,941	419,116
Office Equipment		963,711	692,833
Motor Vehicles		1,982,628	2,364,261
		<u>20,291,449</u>	<u>17,697,413</u>
	19	<u>99,654,743</u>	<u>80,423,019</u>

CODE	ACCOUNT NAME	DR	CR
80903	SPECIAL SERVICES - PROFESSIONAL & OTHER FEES	42,362	-
80904	WORKSHOP & SEMINARS	771,663	-
80905	ACADEMIC RESEARCH	39,103	-
80906	STAFF DEVELOPMENT	842,421	-
80908	HOLIDAY WARRENT & SEASON TICKETS	21,340	-
80910	BANK CHARGES	69,003	-
80911	AWARDS & INDEMNITIES	775,000	-
80913	CONFERENCES	500,000	-
80914	EXAMINATION EXPENSES	4,349,810	-
80915	OTHER - NEWSPAPER MAGAZINES ECT	1,560,126	-
80916	VISITING LECTURE FEES	20,373,840	-
80930	STAFF WELFARE	201,910	-
80935	PGIS RESEARCH CONGRESS	1,842,711	-
80950	DEPRECIATION - BUILDING	3,917,911	-
80951	DEPRECIATION - TELEPHONE	51,400	-
80953	DEPRECIATION - LAB & TEACHING EQUIP	12,995,857	-
80954	DEPRECIATION - LIBRARY BOOKS	379,941	-
80955	DEPRECIATION - OFFICE EQUIPMENTS	963,711	-
80956	DEPRECIATION - MOTOR VEHICLES	1,982,628	-
84101	ACA-SALARIES & WAGES	1,083,012	-
84102	ACA-U.P.F	179,314	-
84103	ACA-PENSION	204,931	-
84104	ACA-E.T.F	76,848	-
84108	ACA-ACADEMIC ALLOWANCES	1,385,020	-
84112	ACA-ADDITIONAL ALL. 20%	183,446	-
84120	ACA-COL	93,600	-
84121	ACA-RESEARCH ALLOWANCE 25%	321,031	-
84201	NON-ACA-SALARIES	11,902,526	-
84202	NON-ACA- U.P.F	1,648,586	-
84203	NON-ACA PENSION	1,115,170	-
84204	NON-ACA- E.T.F	553,430	-
84208	NON- OVER TIME	1,991,452	-
84209	NON-HOLIDAY PAYMENTS	509,037	-
84210	NON- OTHER ALLOWANCE	11,150	-
84212	NON-ACA-MCA.20%	3,984,029	-
84216	NON ACA. RESEARCH ALL. 25%	539,976	-
84217	NON-ADDITIONAL ALLOWANCE	1,960,031	-
84218	NON-ACA-ADJUSTMENT ALL.	909,884	-
84220	NON-COL	2,477,003	-
84221	NON-STAFF BENEFIT	133,538	-
84249	CASUAL VAGES	496,645	-
90275	STAMP DUTY EXPENSE	23,925	-
Gmt	GRANT		17,079,162
		930,964,375	930,964,375

Report of the Auditor General on the Financial Statements and Other Legal and Regulatory Requirements of the Postgraduate Institute of Science for the year ended 31 December 2018 in terms of Section 12 of the National Audit Act, No. 19 of 2018.

1.1 Qualified Opinion

The audit of the financial statements of the Postgraduate Institute of Science for the year ended 31 December 2018 comprising the statement of financial position as at 31 December 2018 and statement of financial performance, statement of changes in equity and cash flow statement for the year then ended, and notes to the financial statements, including a summary of significant accounting policies, was carried out under my direction in pursuance of provisions in Article 154(1) of the Constitution of the Democratic Socialist Republic of Sri Lanka read in conjunction with provisions of the National Audit Act No. 19 of 2018 and the Finance Act No.38 of 1971. My report to Parliament in pursuance of provisions in Article 154 (6) of the Constitution will be tabled in due course.

In my opinion, except for the effects of the matters described in the basis for Qualified Opinion section of my report, the accompanying financial statements give a true and fair view of the financial position of the Institute as at 31 December 2018 and of its financial performance and its cash flows for the year then ended in accordance with Sri Lanka Public Sector Accounting Standards.

1.2 Basis for Qualified Opinion

Sri Lanka Public Sector Accounting Standard 01

- (a) In terms of Paragraph No.99, all revenue and expenditure should be included in the Statement of Financial Performance in recognizing deficit and surplus of an entity. Nevertheless, revenue of Rs.14,191,231 and expenditure of Rs.14,972,823 relevant to the research activities had not been included in the Statement of Financial Statement.

- (b) The Institute had not identified a correct accounting policy relating to accounting course fees and an internal control system relevant thereto had not been established. As such, receivable course fees income of Rs.12,231,332 pertaining to the year under review that had been identified by the Institute as at 31 December of the year under review had not been brought to account.
- (c) Since the useful life of non-current assets had not been reviewed annually, non-current assets costing Rs.53,946,827 belonging to 4 assets classes had been further in use despite being fully depreciated. Accordingly, action had not been taken to revise the error in estimation according to the Standard 03.
- (d) Depreciation value of 02 items of non-current assets amounting to Rs.1,439,473 relating to the preceding years had been brought to account as the depreciation of the year under review.
- (e) Even though the tendency for recovering the sum of Rs.50,338,160 misappropriated during the period from the year 2008 to 2016 remained at a minimum level, it had been stated under the non-current assets.

I conducted my audit in accordance with Sri Lanka Auditing Standards (SLAuSs). My responsibilities, under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of my report. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my qualified opinion.

1.3 Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation of financial statements that give a true and fair view in accordance with Sri Lanka Public Sector Accounting Standards, and for such internal control as management determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Institute's ability to continue as a going concern, disclosing, as applicable, matters related to going concern

and using the going concern basis of accounting unless management either intend to liquidate the Institute or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Institute's financial reporting process.

As per Sub-section 16(1) of the National Audit Act No. 19 of 2018, the Institute is required to maintain proper books and records of all its income, expenditure, assets and liabilities, to enable annual and periodic financial statements to be prepared of the Institute.

1.4 Auditor's Responsibility for the Financial Statements

My objective is to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes my opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Sri Lanka Auditing Standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with Sri Lanka Auditing Standards, I exercise professional judgment and maintain professional scepticism throughout the audit. I also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for my opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Institute's internal control.

- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the management.
- Conclude on the appropriateness of the management's use of the going concern basis of accounting and based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Institute's ability to continue as a going concern. If I conclude that a material uncertainty exists, I am required to draw attention in my auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify my opinion. However, future events or conditions may cause the Institute to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

I communicate with those charged with governance regarding, among other matters, significant audit findings, including any significant deficiencies in internal control that I identify during my audit.

2. Report on Other Legal and Regulatory Requirements

National Audit Act, No. 19 of 2018 includes specific provisions for following requirements.

- Except for the effect of the matters described in the Basis for Qualified Opinion paragraph, I have obtained all the information and explanation that required for the audit and as far as appears from my examination, proper accounting records have been kept by the Institute as per the requirement of Section 12 (a) of the National Audit Act, No. 19 of 2018.
- The financial statements presented is consistent with the preceding year as per the requirement of section 6 (1) (d) (iii) of the National Audit Act, No. 19 of 2018.

- The financial statements presented includes all the recommendations made by me in the previous year as per the requirement of section 6 (1) (d) (iv) of the National Audit Act, No. 19 of 2018.

Based on the procedures performed and evidence obtained were limited to matters that are material, nothing has come to my attention.

2.1 to state that any member of the governing body indirect interest in any contract entered into by the Institute which are out of the normal cause of business as per the requirement of section 12 (d) of the National Audit Act, No. 19 of 2018.

2.2 to state that the Institute has not complied with any applicable written law, general and special directions issued by the governing body of the Institute as per the requirement of section 12 (f) of the National Audit Act, No. 19 of 2018.

Reference to Laws, Rules/ Directives -----	Description -----
(a) Financial Regulation 1646	Although the Running Charts relevant to each month should be furnished to the Auditor General before 15 of the following months, there observed 35 instances where steps had not been taken accordingly.
(b) Paragraph 3.1 of the Circular No.30 of 2016 of the Secretary to the Ministry of Public Administration and Home Affairs.	Fuel consumption test had not been carried out on 04 vehicles belonging to this Institute in terms of the Circular.
(c) Guidelines 4.2.1(a) and 4.2.3 of the Government Procurement Guidelines.	The Master Procurement Plan inclusive of the procurement activities expected to be carried out at least within a period of 03 years had not been prepared.

2.3 to state that the resources of the Institute had not been procured and utilized economically, efficiently and effectively within the time frames and in compliance with the applicable laws as per the requirement of section 12 (h) of the National Audit Act, No. 19 of 2018, except for the following observations.

- (a) In terms of Section 8.2.2 of the Manual for the Good Governance specified as per the Circular No.PED/12 dated 02 June 2003 of the Director General of Public Enterprises and Section 11 of the Finance Act No.38 of 1971, all excess money should be invested in fixed deposits, Treasury Bills, short term deposits or another effective investment. Nevertheless, balances ranging from Rs.35 million to Rs.52 million could be observed in current accounts of the Postgraduate Institute of Science at the end of each month from January to October 2018.
- (b) Two bank accounts of the Postgraduate Institute of Science had not been maintained actively during the year under review and the above accounts included the Government Grants, funds released for the loans of the Provident Fund and the money as course fees. There was a balance of Rs.17,966,826 in those accounts as at 31 October 2018.
- (c) Two Distress Loan balances of Rs.111,637 that remained unrecovered for over a period of one year as at 31 December of the year under review had been stated under the current assets.
- (d) In the examination of approved cadre and the actual cadre of the Postgraduate Institute of Science, 14 vacancies could be observed in 10 posts.
- (e) Since 02 officers in 02 posts had been removed from the new cadre report according to the new cadre report of the Postgraduate Institute of Science approved by the Department of Management Services on 06 July 2018, the relevant officers who are presently in the service had been included in the excess cadre.

- (f) Although the number of drivers in the approved cadre of the Institute was three, only two drivers had been deployed in the service from the inception and as such, two of 04 vehicles of the Institute always remained underutilized.
- (g) Even though plans had been drawn to acquire goods and equipment worth Rs.116,320,000 relating to 47 procurements during the year under review as per the Annual Procurement Plan, goods and equipment worth Rs.34,970,000 relating to 27 procurements had not been acquired during the year under review . Accordingly, it had represented 57 per cent.
- (h) It was observed at the audit test check that research activities had not been completed within the agreed period of 04 research projects and there was no information to the effect that the reports on physical progress of the researches of 07 projects or the final progress reports had been furnished.
- (i) As compared with the preceding year, the number of courses conducted by the Institute had decreased from 20 to 11 by 45 per cent during the year under review. Therefore, the number of students had declined from 426 to 309 by 27 per cent during the year under review.
- (j) When comparing budgeted income and expenditure with the actuals, variations ranging from 21 per cent to 229 per cent of 34 items was observed. Accordingly, the budget had not been made use of as an effective instrument in management control.

W.P.C.Wickramarathne

Auditor General.

PGIS REPLY TO AUDIT OBSERVATIONS

1.2	a)	Actions will be taken to present separately the research income and research expenditure under the two headings of the same, in the Statement of the Financial Performance from the financial year ending 31, December 2019.
	b)	Actions will be taken to present the value of course fees under the headings of “Fees paid in cash in the year” and “Fees to be paid in the year”, as the course fee of the current year, in the Statement of Financial Performance from the financial year ending 31 December 2019
	c)	Actions will be taken to review again the effective life time of non - current assets which have been fully depreciated but further being used, in the future.
	d)	Actions will be taken to compute depreciation values accurately in the future.
	e)	Misappropriation of funds has been included in the Financial Statement according to the accounting standards of the Government of Sri Lanka. Actions will be taken to write – off those under the heading of non-current assets only if a considerable change has taken place in the course of charging, in the future.
2.2	a)	Action will be taken to submit daily running charts of each month to the Auditor before 15 th of next month.
	b)	Action will be taken to investigate fuel combustion according to the Government Administration Circular 2016/30.
	c)	Actions will be taken to prepare a procurement plan which is expected to be finalized within a minimum of 03 years, from the year 2019.
2.3	a)	An applied audit of the misappropriation of funds in the Institution has been done by the Government Audit. Till the time of issuing of the final report of the audit, temporary investment of funds has not been done. Surplus funds have been invested only after receiving required approval. By now there is no such surplus funds remained.

2.3	b)	By now, the funds shown by the audit have been utilized.
	c)	Actions have been taken to charge deficit balances except the distress balance, from the Senior Assistant Bursar, Mr. W.M.M.S.M Iddawala who involved with fund misappropriation.
	d)	Updated information of staff as at 31.08.2019 is attached here to. Action will be taken to fill the vacancies depending on the necessities of the Institution
	e)	The report of the new staff has been submitted to the Management Services Department and University Grants Commission for their approval.
	f)	Action has been taken to get service only from two drivers considering the requirements of the Institute
	g)	With reference to the audit query, the details of purchasing of valuable goods and equipment related to 27 procurements and the reasons for not purchasing of some items and other details are appeared in the following annexure.

	Description	
1	Renovation & Construction of Toilet Unit a of the Building No 01 & 02 - PGIS	Minor repairs done.
2	Partition of Administration and Accounts Branch	Done , see the annexure
3	Construction of roof for the Building No.01	Minor repairs done
4	Supplying of meals and refreshments for the workshop	Done, see the annexure
5	Procurement of refreshment for the PGIS 2018	Procurement of Refreshments for CCM,BOM, Audit ,Finance committees and other various adhoc committees and meetings, inauguration ceremonies were done on advances and by pettycash.
6	Procurement of Flower arrangement for the PGIS 2018	Done for Rescon and other international conferences on advances.
7	Procurement of tyres for the PGIS 2018	Done, see the annexure
8	Procurement of Vehicle spare parts for the PGIS vehicle	Done, see the annexure
9	Printing materials for other academic/Professional Program	Done, see the annexure
10	Printing invitation card, dockets, posters, brochures, abstract booklet, note pad and program sheet for PGIS congress	Done, see the annexure
11	Printing of student hand books for the year 2018	The new version is being processed.
12	Procurement of chemicals for PGIS lab	Done, see the annexure
13	Procurement of Multimedia	Done, see the annexure

14	Procurement of video conferencing system (2018)	Qtn. called , specification not matched. Processing for the second time.
15	Procurement of – smart board	Postponed since the venue (PGIS new building)is being constructed.
16	Procurement of Document Camera	
17	Procurement of Laptops	Done, see the annexure
18	Procurement of Furniture for the New wing of the PGIS	Postponed until the commissioning of the new building
19	Procurement of Franker Machine	The older one was repaired. Therefore the purchase not done.
20	Procurement of Sports Items for the PGIS Staff	Postponed , no requests received.
21	Procurement of Glassware to the Lab	Done, see the annexure
22	Procurement of Furniture	Done, see the annexure
23	Procurement of Library Books	Processing , There was a delay in receiving orders from Boards of Study
24	Air Conditioning of accounts Office	Postponed as instructed by Director.
25	Roof Repair/replacement with colourcon sheets- PGIS old building	Only Minor repairs done. Postponed to 2019.
26	Provisioning of Service for Air Conditioners/ Generator & other plant machine	Done, see the annexure
27	Provisioning of Vehicle Service of the PGIS vehicle	Done, see the annexure

Annexure

		Amount and the date of the Purchase Order sent to the supplier	
DB/PGIS/2018	2. Partition of Administration and Accounts Branch Partitioning work of the PGIS	Rs 632,000.00	05.02.2018
4. Supplying of meals and refreshment for workshops			
DB/PGIS/2018/L/Meal/139	Supply & Delivery of Lunch Packets	Rs 51,750.00	07.11.2018
DB/PGIS/2018/L/Food/129	Dinner(Buffet)	Rs 599,998.13	30.10.2018
DB/PGIS/2018/L/Dinner/136	Dinner (spatial data Mng.)	Rs 80,000.00	31.10.2018
DB/PGIS/2018/L/Food/24/72	Dinner (Water Symp.)	Rs 127,500.00	04.07.2018
DB/PGIS/2018/L/Food/22/71	Lunch (Water Symp.)	Rs 93,106.88	04.07.2018
DB/PGIS/2018/L/22/70	Refreshments	Rs 115,833.75	04.07.2018
		Rs 1,068,188.76	
7,8 and 27 – Procurement of tyres and spare parts services for vehicles			
DB/PGIS/2018/L/Battery/106	Supply & Infix of Battery for the PGIS Car	Rs 15,742.50	09.10.2018
DB/PGIS/2018/L/Tyre/95	Supply & Infix of Battery for the PGIS Bus	Rs 58,669.99	09.10.2018
DB/PGIS/2018/L/SP/94	Shock mount / Break Liner	Rs 8,300.00	30.08.2018
DB/PGIS/2018/L/SP/93	Shock mount / Break Liner	Rs 80,500.00	30.08.2018
DB/PGIS/2018/L/Battery/89	Supply & Infix of Battery for the PGIS Van	Rs 20,087.05	14.08.2018
DB/PGIS/2018/L/EQ/85	Tyres for Nissan Sunny Car	Rs 50,383.80	24.07.2018
DB/PGIS/2018/L/RE/18/35	Supply & Infix of Battery to Vehicle	Rs 15,111.00	25.04.2018
Vehicle Services in 2018		Rs 125,956.65	
		Rs 374,750.99	
9. Printing material for other academic and professional programs			
DB/PGIS/2018/L/Pri/151	Printing Delivery of Invitation Cards	Rs 6,500.00	13.12.2018
DB/PGIS/2018/L/Pri/127	Do	Rs 6,500.00	23.10.2018
PGIS/2018/L/Pri/128	Do	Rs 5,190.00	23.10.2018

DB/PGIS/2018/L/Pri/13(80)	Do	Rs 3,000.00	10.07.2018
DB/PGIS/2018/L/ST/15	Printing & Delivery of Posters	Rs 4,250.00	29.01.2018
DB/PGIS/2018/L/82	Printing & Banners	Rs 2,240.00	10.07.2018
DB/PGIS/2018/L/24/62	Printing of Banners	Rs 1,562.00	04.06.2018
DB/PGIS/2018/L/Bag/135	Document Bags	Rs 72,000.00	31.10.2018
DB/PGIS/2018/L/Pri/82	Banner	Rs 2,240.00	10.07.2018
		Rs 103,482.00	

10. Printing invitation card, dockets, posters, brochures, abstract booklet, note pad and program sheet for PGIS congress

DB/PGIS/2018/L/Pri/137	Certificate	Rs 9,000.00	02.11.2018
DB/PGIS/2018/L/Pri/126	Note Pads	Rs 9,430.00	22.10.2018
DB/PGIS/2018/L/Pri/124	Printing of Banner	Rs 25,000.00	19.10.2018
DB/PGIS/2018/L/Pri/119	Printing, Binding and Delivery Books	Rs 130,800.00	17.10.2018
DB/PGIS/2018/L/Pri/118	Printing, Binding and Delivery of proceedings Books & Invitation	Rs 147,000.00	04.07.2018
DB/PGIS/2018/L/29/73	Printing of Proceedings	Rs 48,400.00	04.07.2018
		Rs 369,630.00	

12,21 Procurement of chemicals / Glassware for PGIS lab

DB/PGIS/2018/L/CH & GW./27/143	Chemical s/ Glassware	Rs 343,755.00	28.11.2018
DB/PGIS/2018/L/GW/27/142		Rs 11,327.50	28.11.2018
DB/PGIS/2018/L/CH/27/141		Rs 17,321.30	28.11.2018
DB/PGIS/2018/L/CH/58/48		Rs 30,475.00	18.05.2018
DB/PGIS/2018/L/GW/10		Rs 6,325.00	16.01.2018
DB/PGIS/2018/L/GW/09		Rs 46,450.00	16.01.2018
DB/PGIS/2018/L/GW/08		Rs 147,148.25	16.01.2018
DB/PGIS/2018/L/GW/06		Rs 65,872.00	16.01.2018
DB/PGIS/2018/L/CH/25/84		Rs 23,527.85	13.07.2018
DB/PGIS/2018/L/CH/07/78		Rs 33,810.00	10.07.2018
DB/PGIS/2018/L/CH/07/77		Rs 18,529.95	21.06.2018
DB/PGIS/2018/L/CH/07/68		Rs 53,820.00	21.06.2018
DB/PGIS/2018/L/CH/Gas/42		Rs 2,800.00	05.09.2018
		Rs 801,161.85	

13. Procurement of Multimedia

DB/PGIS/2018/L/EQ/39/16	Multimedia Projectors	Rs 159,000.00	30.01.2018
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17. Procurement of Laptops

DB/PGIS/2018/L/EQ/05/67	Note Book Computers	Rs 250,000.00	21.06.2018
DB/PGIS/2018/L/EQ/74/92	Computers	Rs 953,750.00	30.08.2018
		Rs 1,362,750.00	

22. Procurement of Furniture			
DB/PGIS/2018/L/Misc/111	Cushion Covers	Rs 78,000.00	15.10.2018
DB/PGIS/2018/L/Misc/110	Cushion Covers	Rs 68,250.00	15.10.2018
DB/PGIS/2018/L/FUR/105	L shape Table/ Wall fan	Rs 33,838.50	08.10.2018
DB/PGIS/2018/L/FR/08/101	Filling Cabinets	Rs 101,200.00	02.10.2018
DB/PGIS/2018/L/FUR/96	Safes	Rs 16,995.00	14.09.2018
DB/PGIS/2018/L/FUR/79/66	Computers Table/ Half Round side Table	Rs 98,124.98	08.06.2018
DB/PGIS/2018/L/ST/08/40	Filling Cabinets	Rs 55,200.00	02.05.2018
DB/PGIS/2018/L/EQ/24	Cash Counting Machine	Rs 228,850.00	22.02.2018
DB/PGIS/2018/L/EQ/125	Repair lobby chairs	Rs 87,750.00	22.10.2018
		Rs 768,208.48	

6. Provisioning of Service for Air Conditioners/ Generator & other plant Machinery			
DB/PGIS/2018/L/SER./12/144	Repairing of Air Conditioner	Rs 107,000.00	06.12.2018
DB/PGIS/2018/L/SE/90	Service of Air Conditioner	Rs 13,800.00	17.08.2018
DB/PGIS/2018/L/RE/86	Repair of 50000 BTU/ hr	Rs 132,141.00	30.07.2018
DB/PGIS/2018/L/RE/34	Repair of centrifuge	Rs 16,387.50	25.04.2018
DB/PGIS/2018/L/SP/133	Spare parts for Spectrophotometer	Rs 96,539.82	30.10.2018
		Rs 365,868.32	

2.3	h)	Action will be taken to include the physical progress report/fund progress report in the research file, in the future.
	i)	Actions will be taken to introduce new courses, enhance further the qualities of running programs and enhance the enrolment (e.g.: propaganda of courses, make aware the students of the postgraduate degree programs)
	j)	Efforts will be taken to maintain a minimum balance between the budgeted income and expenditure and real income and expenditure.