



# Postgraduate Institute of Science University of Peradeniya



# ANNUAL REPORT 2021

# Vision

To be an internationally renowned centre of excellence for  
Postgraduate Training, Innovative Research & Development in  
Sciences

# Mission

To contribute to the development of a globally recognized society  
with social sensitivity, ethical rectitude and economic prosperity to  
promote innovative research and outreach activities in an  
intellectually stimulating and a conducive academic environment

## **DIRECTOR'S REVIEW**



### **MESSAGE FROM THE DIRECTOR**

The Postgraduate Institute of Science (PGIS), University of Peradeniya, established in 1996 by an ordinance from the Ministry of Higher Education, is an institution for postgraduate education and research in scientific disciplines in Sri Lanka. It has successfully expanded over the years to conduct several MSc, MPhil and PhD programs as well as postgraduate diploma and certificate courses under 11 Boards of Study with the participation of a large number of postgraduate students from different Universities in Sri Lanka and abroad. 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.

Being situated in the premises of University of Peradeniya, it provides an ideal environment for intellectual activities particularly in interdisciplinary areas. PGIS has the opportunity of obtaining services from academic staff members with postgraduate qualifications from some of the best Universities in the world. The members of the teaching panels are drawn from nine Faculties of the University of Peradeniya, as well as from other Universities and Institutes. The excellent research facilities available at the Faculty of Science and other Faculties of the University of Peradeniya and research Institutions in the country are used to provide research training to students. PGIS conduct in-service training programmes, short courses, outreach programmes and workshops. The Institute also offers consultancy services to local industry and public/private sector institutions. The PGIS indeed plays a unique and leading role among the other Institutes of Sri Lanka. The Institute continues to develop leaders in the fields of science and provides for the betterment of society through its research, focusing on solutions to national and international issues. The long-term goal of the PGIS is to become a leading Institute in science and technology in the South Asia.

The PGIS caters to the growing demand of manpower of the field “Science and Technology “by facilitating through resources strategic collaborations with professional bodies, commercial organizations, research organizations, government bodies, other universities and public and private

sector organizations in Sri Lanka. The quality of the postgraduate degree programmes has been maintained at a high standard in order to attract a large number of postgraduate students locally as well from other countries in the region, during the past decade. Over this period, student enrollment has been increased at a greater rate at PGIS. A significant number of postgraduates are providing their expertise to the national development while being associated in both private and public sectors. The PGIS has become the leading postgraduate degree awarding Institute in Sri Lanka. During the past 25 years the PGIS awarded than 3320 postgraduate degrees (Ph.D., M.Phil. and M.Sc.) in different disciplines of science and more than 17,000 have participated in workshops, conferences and short-term training courses/programmes. Due to pandemic situation in the country most of prescheduled workshops could not be conducted but adhering to the covid-19 prevention guild lines in virtual platform several national and international conference/workshops were conducted in year 2021.

In keeping with the vision and mission of the PGIS, activities have been planned in the strategic plan for the next 3 years. During this period, we will focus on improving the postgraduate education strengthening the long-term connections and relationships with other related Institutes of Sri Lanka and creating international opportunities and connections for our students. By providing modern learning prospects, we will prepare our students for multiple future careers, while teaching them to think critically, excel in their chosen disciplines and grasp the importance of continuing to learn over their lives. We need to produce students who are responsible citizens and leaders with practical knowledge, creativity and understanding of national requirements. Our strengths in developing future postgraduate programmes, increasing student intake and promoting innovative research have been taken into account in preparing the corporate plan. A sophisticate Management Information System for efficient administration and for the improvement of the quality of our students was initiated recent past.

Further, the PGIS is initiating strategies for catering the requirements of the industry.

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

Director/PGIS

21/02/2022

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## 1. BRIEF INTRODUCTION



The Postgraduate Institute of Science (PGIS) is a National Institute attached to the University of Peradeniya, Sri Lanka. Presently, approximately 2400 students are registered at the PGIS. It 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 thus enhancing the graduate academic experience.

The PGIS offers Masters, M.Sc., M.Phil. and Ph.D. degree programmes as well as postgraduate diploma and certificate courses to cater to the demand in both the public and private sectors in the nation. The M.Sc., M.Phil. and Ph.D. programmes require completion of a research project while the other programmes require completion of course work only. Provisions are available to conduct research work at either in the University System or at a relevant research institution in Sri Lanka. Many research programmes of the PGIS are conducted with the collaboration of the Faculty of Science, University of Peradeniya and other national institutes. The student population includes local and foreign graduates from different disciplines in science. In addition, structured and tailor-made training programmes, such as short courses and workshops, are also conducted frequently. GIS and Applications and Scientific Writing are four popular short-term programmes conducted by the PGIS. The 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 the nine

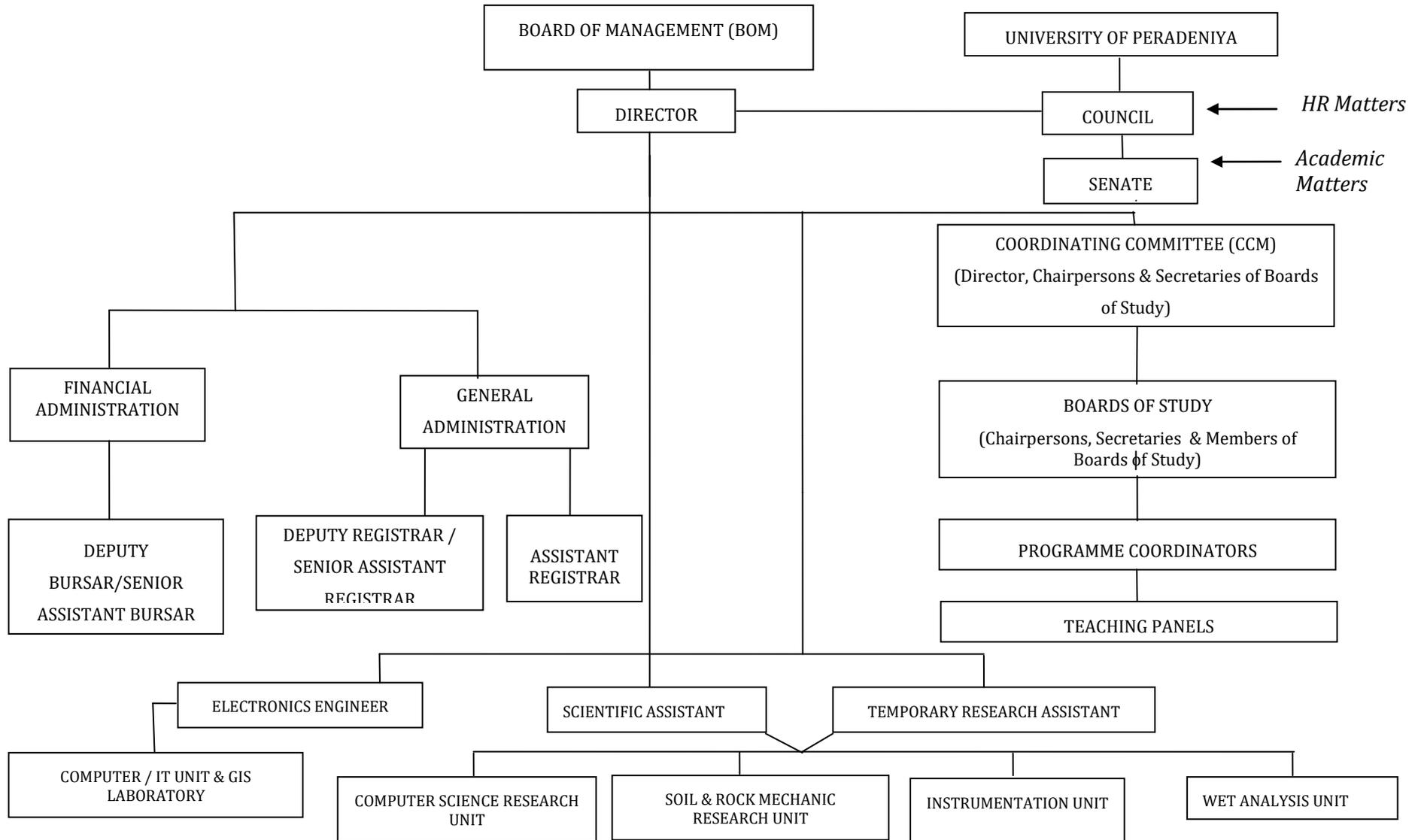
Faculties of the University of Peradeniya, as well as from other universities, institutes and industrial sector. The institute also offers consultancy services to local industry and public/private sector institutions. Sandwich programmes and collaborative research projects have also been launched with international institutions and state organizations. Under the ERASMUS scholarship programme, PGIS students have received scholarships to continue their studies abroad. The PGIS conduct research conferences and symposia including the annual PGIS Research Congress, with the academic collaboration of both local and foreign participants.

The PGIS provides efficient services to its stakeholders through its dedicated and well-trained staff, and as a result, its efforts towards internationalization have become stronger during the last few years. The PGIS hopes to achieve its vision in the future by becoming one of the best postgraduate institutes in scientific and research in Asia.



## 2. ORGANIZATIONAL STRUCTURE

**Organogram of the Postgraduate Institute of Science**



### **3. BOARD OF MANAGEMENT**

#### **3.1 Ex-Officio Members**

1. Prof. HMTGA Pitawala, Director, Postgraduate Institute of Science
2. Mr. GMRD Aponsu, Director (Planning), Ministry of Higher Education, 18, Ward Place, Colombo 7
3. Ms. Geetha Wimalaweera, Director General, Department of Development Finance, Ministry of Finance, Colombo
4. Mrs. KAP Perera, Director, Sri Lanka Planetarium, State Ministry of Skills Development, Vocational Education Research & Innovation
5. Mr. Ravindra Pathamapriya, Acting Director General, National Science Foundation, 47/5 Maitland Place, Colombo 07
6. Dr. SW Gamage, Secretary/Chamber of Commerce and Industry of Central Province, No.5, Mulgampala Road, Kandy
7. Prof. SR Kodituwakku, Dean/Faculty of Science, University of Peradeniya
8. Prof. RGSC Rajapakse, Chairman/BoS in Biochemistry & Molecular Biology, Department of Molecular Biology & Biotechnology
9. Prof. MMAN Navaratne, Chairperson/BoS in Biomedical Sciences, Department of Chemistry
10. Prof. MYU Ganehege, Chairperson/BoS in Chemical Sciences, Department of Chemistry
11. Prof. NWB Balasooriya, Chairperson/BoS in Earth Sciences, Department of Geology
12. Prof. GWAR Fernando, Chairman/BoS in Environmental Science, The Open University of Sri Lanka
13. Prof. AAI Perera, Chairman/BoS in Mathematics, Department of Mathematics
14. Dr. JP Liyanage, Chairman/BoS in Physics, Department of Physics
15. Prof. DMD Yakandawala, Chairperson/BoS in Plant Sciences, Department of Botany
16. Prof. HMSP Madawala, Chairperson/BoS in Science Education, Department of Botany
17. Dr. UAJ Pinidiyaarachchi, Chairperson/BoS in Statistics & Computer Science, Dept of Statistics and Computer Science
18. Prof. WAIP Karunarathne, Chairperson/BoS in Zoological Sciences, Department of Zoology

#### **3.2. UGC Nominees**

19. Prof. Nimal Gunathilake, 179/1A, Eriyagama, Peradeniya
20. Prof. Prasad Jayaweera, Department of Computer Science, Faculty of Applied Sciences, University of Sri Jayawardenapura

#### 4. COORDINATING COMMITTEE

##### Members of the Coordinating Committee of the PGIS

- Prof. HMTGA Pitawala, Director/PGIS
- Prof. SR Kodituwakku, Dean, Faculty of Science
- Senior Assistant Librarian, Science Library
- Chairpersons, Secretaries and Programme Coordinators of the M.Sc Programmes (as per the table below)

No.	Board of Study	Chairperson	Secretary	M.Sc. Programme	Programme Coordinators
1	Board of Study in Biotechnology and Molecular Biology	Prof. RGSC Rajapakse	Dr. BADH Beligala	Clinical Biochemistry	Prof. HKI Perera
					Dr. WIT Fernando
				Experimental Biotechnology	Prof. JGS Ranasinghe
					Prof. RGSC Rajapakse
2	Board of Study in Biomedical Sciences	Prof. MMAN Navaratne	Dr. P Wijesinghe	----	----
3	Board of Study in Chemical Sciences	Prof. MYU Ganehenage	Dr. JMS Jayasinghe	Analytical Chemistry	Prof. MMAN Navarathne
					Dr. JATC Ariyaratne
				Industrial Chemistry	Dr. M Danturebandara
					Dr. JMS Jayasinghe
					Dr. MB Wijesinghe
				Nanoscience & Nanotechnology	Prof. RMG Rajapakse
					Dr. ACA Jayasundara
					Dr. BMK Pemasiri
					Prof. RGSC Rajapakse
				4	Board of Study in Environmental Science
	Dr. GAN Suranjith				
Biodiversity Ecotourism	Prof. SK Yatigamma				

				& Environmental Management	Mr. C Wijesundara
5	Board of Study in Earth Sciences	Prof. NWB Balasooriya	Dr. PL Dharmapriya	Disaster Management	Dr. B Athurupana
				GIS and Remote Sensing	Dr. AAJK Gunatilake
				Gemmology & Industrial Minerals	Prof. SW Nawaratne
					Dr. PL Dharmapriya
				Engineering Geology & Hydrogeology	Dr. AAJK Gunatilake
Water Resources Management	Dr. B Athurupana				
					Prof. HA Dharmagunawardhana
6	Board of Study in Mathematics	Prof. AAI Perera	Dr. THKR De Silva	Industrial Mathematics	Dr. PGRS Ranasinghe
7	Board of Study in Physics	Dr. JP Liyanage	Dr. T Ranawaka	Physics of Materials	Dr. VA Seneviratne
				Medical Physics	Dr. V Sivakumar
8	Board of Study Plant Sciences	Prof. DMD Yakandawala	Prof. SCK Rubasinghe	Medical Microbiology	Prof. F Noordeen
					Dr. S Athukorala
				Pharmaceutical Botany	Prof. GAD Perera
					<b>After 2020 Batch</b>
					Dr. C Ariyaratne
				Biodiversity Conservation Management	Dr. BS Nanayakkara
					Dr. AMTA Gunaratne
				Postharvest Technology of Fruits & Vegetables	Prof. KMGG Jayasuriya
Prof. WAM Daundasekara					
					Prof. Jilushi Damunupola
9	Board of Study Science Education	Prof. HMSP Madawala	Prof. WAP De Silva	Overall Programme Coordinators	Dr. WD Chandrasena Prof. SY Ekanayake

				Science Education (Biological Education)	Dr. S Athukorala
				Science Education (Chemistry Education)	Dr. A Welegedara
				Science Education (Mathematics Education)	Dr. AK Amarasinghe
				Science Education (Physics Education)	Dr. TP Ranawaka
				Diploma in Science Education	Dr. ARGAM Abeykoon Menike
<b>10</b>	Board of Study in Statistics & Computer Science	Dr. UAJ Pinidiyaarachchi	Dr. SP Abeysundara	Applied Statistics	Dr. SP Abeysundara
					Prof. YPRD Yapa
				Computer Science	Dr. RD Nawarathne
				Data Science	Dr. HTK Abeysundara
					Dr. PMPC Gunatilake
				Information Technology	Dr. UAJ Pinidiyaarachchi
					Dr. DMMB Dehideniya
<b>11</b>	Board of Study in Zoological Sciences	Prof. WAIP Karunaratne	Piyumali K Perera	Applied Epidemiology	Dr. S Kumburegarma
				Fish & Wildlife Management	Dr. LG Lokugalappaththi

## 5. ACHIEVEMENTS

### 5.1. Awards and Research Publications

35 Research publications have resulted from the work carried out by academics/scientists affiliated to PGIS, out of which 26 publications have appeared in international journals including e-journals and 9 publications in local journals. In addition, more than 63 abstracts have been published based on the presentations made by the scientists at conferences.

Several scientists have won awards for outstanding research, including National Science Foundation awards and National Research Council awards.

#### 5.1.1. Research publications by PGIS affiliated members

1. Ekanayake, L.J., Nawarathna, R.D., Kodituwakku, S.R., Yapa, R.D. and Pinidiyaarachchi, A.J. (2021). A systematic approach for scheduling IoT devices for effective load balancing based on deep sleep. *2021 IEEE World AI IoT Congress (AIoT)*, 2021: 0407-0412.  
<https://ieeexplore.ieee.org/abstract/document/9454204>
2. Bandaranayaka, K.O., Kularatne, S.A.M., Rajapakse, R.P.V.J., Abeysundara, U.B., Rajapaksha, R.M.M.A. and Rajakaruna, R.S. (2021). Human Otoacariasis in two climatically diverse districts in Sri Lanka: seasonality, risk factors, and case notes. *Acta Parasitologica*. **66**, 1326-1340. DOI: <https://doi.org/10.1007/s11686-021-00372-w>
3. Nikagolla, N.G.D.N., Udugala-Ganehenegge, M.Y. and Daundasekera, W.A.M. (2021). Direct inhibitory effect and enhanced antifungal activity of postharvest soluble silica treatment against anthracnose and crown rot pathogens in banana (short communication). *Ceylon Journal of Science*, 50 (Special issue): 415-419.
4. Jayawardhane, J., Damunupola, J.W. and Jayasuriya, K.M.G.G. (2021). Propagation of three important medicinal plants in Acanthaceae; *Andrographis paniculata*, *Barleria prionitis* and *Rhinacanthus polonnaruwensis*. *Ceylon Journal of Science*, 50(2), 129-137. DOI: <https://doi.org/10.4038/cjs.v50i2.7874>
5. Somarathne, N.R. and Jayasuriya, K.M.G.G. (2021). Factors affecting student performance in science at G.C.E. (A/L): A case study from newly upgraded secondary schools in the Kurunegala educational zone. *Ceylon Journal of Science*, 50(2), 155-163. DOI: <https://doi.org/10.4038/cjs.v50i2.7878>
6. Premaratne, K.M., Chandrajith, R. and Ratnayake, N.P. (2021). An overview of Holocene monsoon variability of Sri Lanka and its association with Indian subcontinent climate records. *Ceylon Journal*

- of Science*, 50(3), 207-218.  
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7. Bandaranayaka, K.O., Dissanayake, U.I. and Rajakaruna, R.S. (2021). Experimental aspects of life cycle of *Rhipicephalus (Boophilus) microplus* and *Hyalomma isaaci* on New Zealand white rabbits. *Ceylon Journal of Science*, 50, 47-56.  
DOI: <https://doi.org/10.4038/cjs.v50i1.7846>
  8. Sahabandu, C.W., Karunarathna, D., Sewvandi, P., Juman, Z.A.M.S., Dewasurendra, M., Vajravelu, K. (2021). A method of directly defining the inverse mapping for a nonlinear partial differential equation and for systems of nonlinear partial differential equations. *Computational and Applied Mathematics (Springer Link)*, 40(6), 1-16.  
DOI: <https://doi.org/10.1007/s40314-021-01627-y>
  9. Alahakoon, A.A.C.B., Abeyesiriwardena, D.D.Z., Damunupola, J.W. and Hay, F.R. (2021). Accelerated aging test of seed vigour for predicting field emergence of wet direct-seeded rice. *Crop and Pasture Science*, 72, 773-781.  
<https://www.publish.csiro.au/cp/CP20373>
  10. Weerakoon, W. A. P., Joshi H., Aggarwal, N., Jha, N., Jayasena, H.A.H., Yakandawala, D., Chandrajith, R., Ratnayake, N.P. and Tiwari, P. (2021). Late Jurassic-Early Cretaceous palynostratigraphy and palaeoclimate in the Andigama Basin, Sri Lanka. *Journal of Asian Earth Sciences: X*.  
DOI: <https://doi.org/10.1016/j.jaesx.2021.100067>
  11. Koralegedara, N.H., Weedagama, W.L.A.C.I., Athurupana, B., Balasooriya, N.W.B., Chandrajith, R. and Senaratne, A. (2021). Chemical, mineralogical and textural characterization of red earth formation in the northwest coast of Sri Lanka. *Journal of Geological Society of Sri Lanka*, 22 (1), 1-10.  
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  13. Chathuranga, W.G.D., Fernando, B.R., Weeraratne, T.C., Karunaratne, S.H.P.P. & De Silva, W.A. P.P. (2021). Blood parasites of bird communities in Sri Lanka and their mosquito vectors. *Parasitology Research*, 120(2), 693-703.  
DOI: <https://doi.org/10.1007/s00436-021-07049-3>
  14. Thusithana, V., Amerasekara, R.W.K., Jayasuriya, K.M.G.G., Gama-Arachchige, N.S., Baskin, C.C. and Baskin, J.M. (2021). Seed dormancy of *Cardiospermum halicacabum* (Sapindaceae) from three precipitation zones in Sri Lanka. *Plant Biology*, 23(1), 148-155.

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DOI: <https://doi.org/10.1017/S0960258521000088>
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DOI: <https://doi.org/10.4038/sljas.v26i1.7585>
17. Ruklani, N.C.S. and Rubasinghe, S.C.K. (2021). Species richness patterns, hotspots and phytogeographic affinities of thalloid liverworts (Marchantiophyta) and hornworts (Anthocerotophyta) of Sri Lanka. *Tropical Ecology*, 62(2), 218-233.  
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<https://doi.org/10.1016/j.coesh.2021.100297>
19. Athugala, Y.S., Jayasuriya, K.M.G.G., Gunaratne, A.M.T.A. and Baskin, C.C. (2021). Seed dormancy of 80 tropical montane forest species in Sri Lanka, The first dormancy profile for a tropical montane forest community. *Plant Biology*, 23, 293-299.  
DOI: <https://doi.org/10.1111/plb.13203>
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23. Dissanayake, D.M.S.N., Mantilaka, M.M.M.G.P.G., De Silva, R.T., De Silva, K.M.N. and Pitawala H.M.T.G.A. (2021). Laterite and its potential as an alternative-bauxite, *Cleaner Materials*, 1, 100016. <https://doi.org/10.1016/j.clema.2021.100016>
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28. Karunadasa, K.S., Rathnayake, D., Manoratne, C., Pitawala, A. and Rajapakse, G. (2021). A binder-free composite of graphite and kaolinite as a stable working electrode for general electrochemical applications. *Electrochemical Science Advances*, e2100003. DOI: [10.1002/elsa.202100003](https://doi.org/10.1002/elsa.202100003)
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<https://doi.org/10.1016/j.mtla.2020.100984>

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<https://doi.org/10.1016/j.jre.2020.02.013>
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<https://doi.org/10.1016/j.jece.2021.106105>
35. Wimalasiri, V. W., Dunuweera, S. P., Dunuweera, A. N. and Rajapakse, R. M. G. (2021). Noyes-whitney dissolution model-based pH-sensitive slow release of Paclitaxel (Taxol) from human hair-derived keratin microparticle carriers. *BioMed research international*, 2021, 6657482.  
<https://doi.org/10.1155/2021/6657482>
36. Gunathilaka, U. M. T. M., de Silva, W. A. P. P., Dunuweera, S. P. and Rajapakse, R. M. G. (2021). Effect of morphology on larvicidal activity of chemically synthesized zinc oxide nanoparticles against mosquito vectors. *RSC Advances*, 11(15), 8857-8866. <https://doi.org/10.1039/D1RA00014D>
37. Mudiyanseelage Sakunthala Pubudu Kumari Kumarasinghe, K. D., Karunarathne, B. C., Dunuweera, S. P., Gamini Rajapakse, R. M., Tennakone, K., & Asoka Kumara, G. R. (2021). Impact of 4-tertiary-butylpyridine in imidazolium iodide/triiodide redox couple-based dye-sensitized solar cells. *ACS Applied Energy Materials*, 4(9), 9393-9401. <https://doi.org/10.1021/acsaem.1c01587>

### 5.1.2. Publications in refereed journals by PGIS affiliated members

No.	Title of the paper	Names of the authors	Name of the Journal
1.	Impact of 4-tertiary-butylpyridine in imidazolium iodide/triiodide redox couple-based dye-sensitized solar cells	Mudiyanselage, S.P.K., Kumarasinghe, K.D., Karunaratne, B.C., Dunuweera, S.P., Rajapakse, R.M.G., Tennakone, K. and Kumara, G.R.A.	<i>ACS Applied Energy Materials</i>
2.	Human Otoacariasis in two climatically diverse districts in Sri Lanka: seasonality, risk factors, and case notes	Bandaranayaka, K.O., Kularatne, S.A.M., Rajapakse, R.P.V.J., Abey Bandara, U.B., Rajapaksha, R.M.M.A. and Rajakaruna, R.S.	<i>Acta Parasitologica</i>
3.	Deep groundwater recharge mechanism in the sedimentary and crystalline terrains of Sri Lanka: A study based on environmental isotopic and chemical signatures of spring water	Priyadarshanee, K.S.G.S., Pang, Z., Edirisinghe, E.A.N.V., Dharmagunawardhane, H.A., Pitawala, H.M.T.G.A., Gunasekara, J.D.C. and Tilakarathna, I.A.N.D.P.	<i>Applied Geochemistry</i>
4.	Noyes-whitney dissolution model-based pH-sensitive slow release of Paclitaxel (Taxol) from human hair-derived keratin microparticle carriers	Wimalasiri, V.W., Dunuweera, S.P., Dunuweera, A.N. and Rajapakse, R.M.G.	<i>BioMed research international</i>
5.	Laterite and its potential as an alternative-bauxite	Dissanayake, D.M.S.N., Mantilaka, M.M.M.G.P.G., De Silva, R.T., De Silva, K.M.N. and Pitawala H.M.T.G.A.	<i>Cleaner Materials</i>
6.	Fabrication of water-repellent polyester textile via dip-coating of in-situ surface-modified superhydrophobic calcium carbonate from dolomite	Abeywardena, M.R., Yashomala, M.A.D.H., Elkaduwe, R.K.W.H.M.K., Karunaratne, D.G.G.P., Pitawala, H.M.T.G.A., Rajapakse, R.M.G., Manipura, A. and Mantilaka, M.M.M.G.P.G.	<i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i>

No.	Title of the paper	Names of the authors	Name of the Journal
7.	A method of directly defining the inverse mapping for a nonlinear partial differential equation and for systems of nonlinear partial differential equations	Sahabandu, C.W., Karunarathna, D., Sewvandi, P., Juman, Z.A.M.S., Dewasurendra, M., Vajravelu, K.	<i>Computational and Applied Mathematics</i>
8.	Accelerated aging test of seed vigour for predicting field emergence of wet direct-seeded rice	Alahakoon, A.A.C.B., Abey Siriwardena, D.D.Z., Damunupola, J.W. and Hay, F.R	<i>Crop and Pasture Science</i>
9.	Compost as a carrier for microplastics and plastic-bound toxic metals into agroecosystems	Vithanage, M., Ramanayaka, S., Hasinthara, S. and Navaratne, A.	<i>Current Opinion in Environmental Science &amp; Health</i>
10.	A binder-free composite of graphite and kaolinite as a stable working electrode for general electrochemical applications	Karunadasa, K.S., Rathnayake, D., Manoratne, C., Pitawala, A. and Rajapakse, G.	<i>Electrochemical Science Advances</i>
11.	Magnetite nanoparticles incorporated porous kaolin as a superior heavy metal sorbent for water purification	Lankathilaka, K.W., de Silva, R.M., Mantilaka, M.M.M.G.P.G. and de Silva, K.N.	<i>Groundwater for Sustainable Development</i>
12.	Late Jurassic-Early Cretaceous palynostratigraphy and palaeoclimate in the Andigama Basin, Sri Lanka	Weerakoon, W.A.P., Joshi H., Aggarwal, N., Jha, N., Jayasena, H.A.H., Yakandawala, D., Chandrajith, R., Ratnayake, N.P. and Tiwari, P.	<i>Journal of Asian Earth Sciences</i>
13.	Concurrent removal of hardness and fluoride in water by monopolar electrocoagulation	Halpegama, J.U., Heenkenda, K.Y., Wu, Z., Nanayakkara, K.G.N., Rajapakse, R.M.G., Bandara, A., Herath, A.C., Chen, X. and Weerasooriya, R.	<i>Journal of Environmental Chemical Engineering</i>
14.	Industrial and environmental significance of photonic zirconia nanoflakes: Influence of boron doping on structure and band states	Ratnayake, S. P., Sandaruwan, C., Mantilaka, M.M.M.G.P.G., de Silva, N., Dahanayake, D., Wanninayake, U.K. and de Silva, K.N.	<i>Journal of Industrial and Engineering Chemistry</i>

No.	Title of the paper	Names of the authors	Name of the Journal
15.	Low-temperature thermocatalytic particulate carbon decomposition via urea solution-combustion derived CeO <sub>2</sub> nanostructures	Ratnayake, S.P., Mantilaka, M.M.M.G.P.G., Sandaruwan, C., Dahanayake, D., Gunasekara, Y.P., Jeyasakthy, S. and de Silva, K.N.	<i>Journal of Rare Earths</i>
16.	Low seed moisture and polythene packaging improve storability of seed paddy	Alahakoon, A.A.C.B. and Abeysiriwardena, D.D.Z.	<i>Journal of Stored Products Research</i>
17.	Diversity and distribution of avifauna at Warathenna-Hakkinda Environmental Protection Area in Kandy, Sri Lanka	Thilakarathne, D., Lakkana, T., Hirimuthugoda, G., <u>Wijesundara, C.</u> , and Kumburegama, S.	<i>Journal of Threatened Taxa</i>
18.	Combined Zr and Y phosphate coatings reinforced with chemically anchored B <sub>2</sub> O <sub>3</sub> for the oxidation inhibition of carbon fiber	Ratnayake, S.P., Purasinhala, K., Sandaruwan, C., de Silva, Y.M., Mantilaka, M.M.M.G.P.G., Priyadarshana, G. and de Silva, K.N.	<i>Materialia</i>
19.	Granitic pegmatites in Sri Lanka: A concise review leading to insights and predictions	Dharmapriya, P.L., Disanayaka, D.W.M., Martin, R.F., Pitawala, H.M.T.G.A. and Malaviarachchi, S.P.K.	<i>Ore and Energy Resource Geology</i>
20.	Blood parasites of bird communities in Sri Lanka and their mosquito vectors	Chathuranga, W.G.D., Fernando, B.R., Weeraratne, T.C., Karunaratne, S.H.P.P. and De Silva, W.A. P.P.	<i>Parasitology Research</i>
21.	Seed dormancy of <i>Cardiospermum halicacabum</i> (Sapindaceae) from three precipitation zones in Sri Lanka	Thusithana, V., Amerasekara, R.W.K., Jayasuriya, K.M.G.G., Gama-Arachchige, N.S., Baskin, C.C. and Baskin, J.M.	<i>Plant Biology</i>
22.	Seed dormancy of 80 tropical montane forest species in Sri Lanka, The first dormancy profile for a tropical montane forest community	Athugala, Y.S., Jayasuriya, K.M.G.G., Gunaratne, A.M.T.A. and Baskin, C.C.	<i>Plant Biology</i>

No.	Title of the paper	Names of the authors	Name of the Journal
23.	Effect of morphology on larvicidal activity of chemically synthesized zinc oxide nanoparticles against mosquito vectors	Gunathilaka, U.M.T.M., de Silva, W.A.P.P., Dunuweera, S.P. and Rajapakse, R.M.G.	<i>RSC Advances</i>
24.	Development of a chemical-free floatation technology for the purification of vein graphite and characterization of the products	Kumara, G.R., Pitawala, H.M.G., Karunaratne, B., Mantilaka, M.M.M., Rajapakse, R.M.G., Huang, H. H. and Yoshimura, M	<i>Scientific reports</i>
25.	Desiccation tolerance and sensitivity of selected tropical Montane species in Sri Lanka	Athugala, Y.S., Jayasuriya, K.M.G.G., Gunaratne, A.M.T.A. and Baskin, C.C.	<i>Seed Science Research</i>
26.	Species richness patterns, hotspots and phytogeographic affinities of thalloid liverworts (Marchantiophyta) and hornworts (Anthocerotophyta) of Sri Lanka	Ruklani, N.C.S. and Rubasinghe, S.C.K.	<i>Tropical Ecology</i>
27.	What drives the dominance and distribution of Cyanobacteria and Dinoflagellata in reservoirs of Sri Lanka?	Senanayake, P.A.A.P.K., Kumburegama, S., Wijesundara, C.S., and Yatigammana, S.K.	<i>Sri Lanka Journal of Aquatic Sciences</i>
28.	Chemical, mineralogical and textural characterization of red earth formation in the northwest coast of Sri Lanka	Koralegedara, N.H., Weedagama, W.L.A.C.I., Athurupana, B., Balasooriya, N.W.B., Chandrajith, R. and Senaratne, A.	<i>Journal of Geological Society of Sri Lanka</i>
29.	Direct inhibitory effect and enhanced antifungal activity of postharvest soluble silica treatment against anthracnose and crown rot pathogens in banana (short communication)	Nikagolla, N.G.D.N., Udugala-Ganehenege, M.Y. and Daundasekera, W.A.M.	<i>Ceylon Journal of Science</i>

No.	Title of the paper	Names of the authors	Name of the Journal
30.	Propagation of three important medicinal plants in Aacanthaceae; <i>Andrographis paniculata</i> , <i>Barleria prionitis</i> and <i>Rhinacanthus polonnaruwensis</i>	Jayawardhane, J., Damunupola, J.W. and Jayasuriya, K.M.G.G.	<i>Ceylon Journal of Science</i>
31.	Factors affecting student performance in science at G.C.E. (A/L): A case study from newly upgraded secondary schools in the Kurunegala educational zone	Somarathne, N.R. and Jayasuriya, K.M.G.G.	<i>Ceylon Journal of Science</i>
32.	An overview of Holocene monsoon variability of Sri Lanka and its association with Indian subcontinent climate records	Premaratne, K.M., Chandrajith, R. and Ratnayake, N.P.	<i>Ceylon Journal of Science</i>
33.	Experimental aspects of life cycle of <i>Rhipicephalus (Boophilus) microplus</i> and <i>Hyalomma isaaci</i> on New Zealand white rabbits	Bandaranayaka, K.O., Dissanayke, U.I. and Rajakaruna, R.S.	<i>Ceylon Journal of Science</i>
34.	Extent of air pollution in Kandy area, Sri Lanka: morphological, mineralogical and chemical characterization of dust	Samaradiwakara, D.S. and Pitawala, H.M.T.G.A.	<i>Ceylon Journal of Science</i>
35.	Geochemical and mineralogical characterization of phosphatic crusts developed on the basement carbonatites of Sri Lanka: towards a better understanding of the weathering process	Chandrakumara, G.T.D., Balasooriya, N.W.B., Mantilaka, M.M.M.G.P.G., Lottermorser, B.G. and Pitawala, H.M.T.G.A.	<i>Ceylon Journal of Science</i>

## 5.2. Ph.D., M.Phil. and M.Sc. Degrees Awarded

### 5.2.1 Ph.D. DEGREES AWARDED

<i>No.</i>	<i>Degree Awardees</i>	<i>Titles of Theses</i>	<i>Supervisors</i>
<b><i>Mathematics</i></b>			
1.	WNP Rodrigo	BIN-PACKING PROBLEM WITH CARTESIAN COORDINATE SYSTEM	Prof. WB Daundasekara Prof. AAI Perera
<b><i>Statistics &amp; Computer Science</i></b>			
2.	M Kayanan	IMPROVED ESTIMATION WITH INCOMPLETE PRIOR INFORMATION IN MISSPECIFIED REGRESSION MODEL	Prof. P Wijekoon
<b><i>Zoological Sciences</i></b>			
3.	S Yathramullage	ROLE OF SMALL MAMMALS AS RESERVOIR HOSTS OF RICKETTSIOSES AND LEPTOSPIROSIS IN KURUNEGALA AND KANDY DISTRICTS, SRL LANKA	Prof. RS Rajakaruna Prof. M Meegaskumbura Prof. S Meegaskumbura Prof. P Samaraweera
4.	WGD Chathuranga	DIVERSITY, DISTRIBUTION, BREEDING PREFERENCE, AND THE VECTOR POTENTIAL OF ORNITHOPHILIC MOSQUITOES IN SRI LANKA	Prof. WAPP De Silva Prof. SHPP Karunaratne

### 5.2.2 M.Phil. DEGREES AWARDED

<i>No.</i>	<i>Degree Awardees</i>	<i>Titles of Theses</i>	<i>Supervisors</i>
<b><i>Biochemistry and Molecular Biology</i></b>			
1.	J Poongunran	DETERMINATION OF ANTIDIABETIC POTENTIAL OF SELECTED MEDICINAL PLANTS AND ISOLATION OF ACTIVE COMPOUNDS FROM <i>SYZYGIUM CUMINI</i> LEAVES	Prof. HKI Perera Prof. ULB Jayasinghe
<b><i>Chemical Sciences</i></b>			
2.	JU Halpegama	REMEDIATION OF FLUORIDE AND NITRATE RICH DRINKING WATER WITH	Prof. AC Herath Prof. RMG Rajapakse

		HIGH HARDNESS THROUGH AND ELECTROCOAGULATION AND ELECTRODIALYSIS	Prof. R Weerasooriya
3.	NRM Nelumdeniya	IN SILICO INVESTIGATION OF COMPLEXATION BEHAVIUR OF CYCLODEXTRINS	Dr. RJKU Ranathunge
4.	MMIHK Madigasekara	PHOTOCATALYTIC AND NOVEL PHOTOVOLTAIC APPLICATIONS OF AG/AGBR/TIO2 PHOTSENSITIVE NANOCOMPOSITE	Dr. HCS Perera
<b>Earth Sciences</b>			
5.	RMGN Rajapaksha	MORPHOMETRY, CLIMATE VARIABILITY, LAND USE DIVERSITY IN THE BADULU OYA CATCHMENT AND THEIR INFLUENCE ON SUFACE WATER RESOURCES	Prof. HA Dharmagunawardena Prof. KWGR Nilanthi Dr. ANB Attanayake
6.	MR Abeywardena	SYNTHESIS AND APPLICATIONS OF VALUE ADDED NANO-MATERIALS FROM SRI LANKAN DOLOMITIC MARBLE	Prof. DGGP Karunarathne Prof. HMTGA Pitawala Prof. G Rajapaksha Dr. A Manipura Dr. P Manthilake
7.	HMKM Premarathne	MILLENNIAL TO SUB-MILLENNIAL SCALE VARIABILITY OF THE INDIAN WINTER MONSOON AND ITS IMPACTS ON COASTAL ECOSYSTEMS OF SOUTHEASTERN SRI LANKA	Prof. R Chandrajith Prof. NP Ratnayake Prof. Si-Liang Li
<b>Mathematics</b>			
8.	WV Nishadhi	GENERALIZATION OF HADAMARD MATRICES IN GRAPH THEORY	Prof. AAI Perera
<b>Physics</b>			
9.	S Senthuran	EFFICIENCY ENHANCEMENT IN DYE SENSITIZED SOLAR CELLS BY NANOSTRUCTURALLY MODIFIED PHOTOANODE, PLASMONIC EFFECT AND MODIFICATIONS TO ELECTROLYTE AND COUNTER ELECTRODE	Prof. MAKL Dissanayake Prof. GKR Senadeera
10.	GDK Heshan	DEVELOPMENT OF MATERIALS FOR EFFICIENT WATER PURIFICATION	Prof. R. Weerasooriya Dr. HWMAC Wijesinghe
<b>Plant Sciences</b>			
11.	PMH Sandamali	SYSTEMATICS OF GENERA <i>DENDROBIUM SWARTZ</i> AND <i>BULBOPHYLLUM THOUARS</i>	Prof. S Rajapakse Prof. SP Senanayake

		(FAMILY: ORCHIDACEAE) IN SRI LANKA	Prof. S Benjamin
12.	JPHU Jayaneththi	INCREASING SOLUBILITY OF EPPAWALA ROCK PHOSPATE USING MICROBIAL BIOFILMS AS A POTENTIAL FERTILIZER IN RICE CULTIVATION	Prof. G Senevirathne Prof. HMSP Madawala Dr. MGTS Amarasekara
13.	RMRNK Ratnayake	EFFECT OF SOIL AMENDMENT WITH SOLUBLE SILICON ON HOST RESISTANCE, PRE AND POSTHARVEST DISEASES AND QUALITY OF BITTER GOURD (MOMORDICA CHARANTIA L.)	Prof. WAM Daundasekara Dr. HM Ariyaratne Prof. MYU Ganehenege
<b><i>Statistics and Computer Science</i></b>			
14.	DNU Narampanawa	DATA EFFICIENT <i>DE NOVO</i> ASSEMBLY WITH TRINITY	Dr. AU Bandaranayake Dr. PCG Bandaranayake
15.	ALF Shanaz	ENTITY LINKING OF PRIMARY TYPES FOR NEWS RECOMMENDATION	Dr. RG Ragel
<b><i>Zoological Sciences</i></b>			
16.	KGDD Thilakarathne	TERRESTRIAL GASTROPOD PESTS WITH SPECIAL REFERENCE TO THEIR DISTRIBUTION, SEASONAL ABUNDANCE, INVASIVE POTENTIAL AND ECONOMIC DAMAGE TO AGRICULTURAL CROPS IN NUWARA ELIYA DISTRICT, SRI LANKA	Prof. KB Ranawana Dr. NPS Kumburegama

### 5.2.3 M.Sc. DEGREES AWARDED

No.	Degree Awardee	Title of Thesis	Supervisor(s)
<b><i>Experimental Biotechnology</i></b>			
1.	Prashanthini Shreeganesh	MORPHOLOGICAL AND GENETIC DIVERSITY OF <i>THELACANTHA BREVISPIA</i> IN NORTHERN SRI LANKA	Dr. K. Gajapathy
2.	Pallegama Tennakoon Mudiyanselage Krishani Chathurika Tennakoon	PHYSIOLOGICAL CHARACTERIZATION AND ASSESSMENT OF GENETIC DIVERSITY OF RHIZOBIAL STRAINS IN <i>CLITORIA TERNATEA</i> L. IN ANURADHAPURA DISTRICT, SRI LANKA	Prof. R.G.S.C. Rajapakse

3.	Rajapathirana Eranda Dilruk	PRECEPTIONS OF INTERNATIONAL TRAVELLERS TOWARDS ENVIRONMENTAL AND ECOTOURISM POTENTIALS IN CULTURAL HERITAGE AREAS AROUND KANDY DISTRICT - SRI LANKA	Prof. S.K. Yatigammana
4.	Nanayakkarawasam Agarage Kalhari Shiwanthika Dias	FUZZY INTERFACE MODEL FOR EMPLOYEE PERFORMANCE APPRAISAL SYSTEM FOR EMPLOYEES IN ACCOUNTS DIVISION OF CENTRAL GOVERNMENT OF SRI LANKA	Dr. R. Siyambalapatiya
<b>Analytical Chemistry</b>			
5.	Punchi Wedikkarage Dona Poornima Gayani	PREPARATION OF IRON OXIDE NANO PARTICLES FROM GALVANIZING EFFLUENTS FOR THE APPLICATION IN REMOVAL OF HEAVY METALS	Prof. R.M.G. Rajapakse, Dr. R.B.S.D. Rajapakse
6.	Dona Nishani Malika Kannangara	GENERATION OF A COARSE-GAINED MOLECULAR MECHANICS MODEL FOR POLOXAMER MOLECULES	Dr. R.J.K.U. Ranathunga
7.	Don Charunie Purnima Manamperi	AN LC-MS/MS METHOD VALIDATION FOR DETERMINATION OF CHLORAPHENICOL IN SHRIMPS	Dr. S. Malavipathirana
8.	Pussallage Anne Akhila Rukshani Silva	MULTI RESIDUE METHOD VALIDATION FOR TWENTY FIVE PESTICIDE RESIDUES IN SOIL -INTEGRATED QUECHERS AND LC-MS/MS APPROACH 05TH JULY 2021	Dr. S. Malavipathirana
9.	Mahakumbure Mudiyansele Chathuranga Prabuddhika Kularathne Bandara Mullegama	ACETYLCHOLINESTERASE ENZYME INHIBITORY ACTIVITY OF GMELINA ARBOREA (ROXB), OROXYLUM INDICUM (L.) AND TRIBULUS TERRESTRIS (L.)	Prof. U.L.B. Jayasinghe, Dr. N.R. Amarasinghe
10.	Rangani Wathsala Weerasinghe	CORROSION PROTECTION OF MILD STEEL USING POLYPYRROLE AND CLOVE OIL COMPOSITE	Prof. M.M.A.N. Navaratne, Prof. W.S.S. Gunathilake
<b>Nanoscience &amp; Nanotechnology</b>			

11.	Amarasinghe Mohotti Appuhamilage Erandi Dilrukshi	ANTIBACTERIAL PROPERTIES OF CU-DOPED ZnO/CHITOSAN NANOHYBRID SURFACE MODIFIED COTTON FABRIC	Dr. N.M. Adassooriya,
12.	Jayasankar Janeni	ELECTROSPUN POLY (VINYL ALCOHOL) NANOFIBER MATS LOADED WITH <i>TERMINALIA CHEBULA</i> FRUIT EXTRACT- PREPARATION, CHARACTERIZATION, AND ANTIMICROBIAL ACTIVITY	Prof. R.G.S.C. Rajapakse, Dr. N.M. Adassooriya, Dr. W.P.S.K. Perera
13.	Parakatawella Mudiyanselage Shalika Udara Bandara Parakatawella	UREA: ADIPIC (2:1) CO- CRYSTAL AS A SLOW- RELEASE NITROGEN SOURCE	Dr. N. Adassooriya, Dr. A.C.A. Jayasundera
14.	Sudu Hakuruge Dilan Priyankara Wijekoon	PARTICLE SIZE SEPARATION TECHNIQUE USING A GAS FLOW AGAINST THE GRAVITY AND ITS THEORETICAL BASIS	Prof. H.M.N. Bandara, Prof. R.M.G. Rajapakshe
15.	Lasantha Rangika Sendanayake	CONTROLLED RELEASE DRUG DELIVERY FORMULATION BASED ON METHOTREXATE LOADED HALLOYSITE NANOTUBES	Dr. N.M. Adassooriya, Dr. A.C.A. Jayasundara
16.	Yashodha Lakshani Paragodaarachchi	SYNTHESIS OF ANONNA GLABRA MEDIATED SILVER NANOPARTICLES AND THEIR PHOTOCATALYSIS AND TOXICITY O SELECTED TARGETS	Prof. P.A.S.R. Wickramarachchi, Prof. A.D.L.C. Perera
<b>Industrial Chemistry</b>			
17.	Narangala Gedara Namal Wickramasinghe	PERFORMANCE OF COIR FIBER BIO-BRUSH IN ANAEROBIC REACTOR FOR WASTEWATER TREATMENT	Prof. M.Vithanage, Dr. C.S. Kalpage
18.	Kishani Upendra Dharmawardena	DEVELOPMENT OF A HERBAL HAIR DYE: AN ECOFRIENDLY PROCESS	Dr. C. Udawatte, Dr.S. Jayasinghe
19.	Chathuri Madumali Munaweera	QUANTIFICATION OF DISSYNCHRONY IN SICKEL CELL DISEASE USING TAGGED MAGNETIC RESONANCE IMAGING	Dr. C.P. Jayalath, Dr. J.P. Wansapura

20.	Enamalpatha Gedara Jayamini Jayantha	DETERMINATION OF ANTI-TUBERCULOSIS ACTIVITY OF SELECTED MEDICINAL PLANTS AND PLEUROTUS MUSHROOMS	Prof. D.N.M. Arachchi, Prof. T.S. Suresh, Dr. H.M.D.R. Herath, Dr. W.J.A.B.N. Jayasuriya
<b><i>Environmental Science</i></b>			
21.	Rangallage Thusith Madhuranga	ASSESSMENT OF THE GROUNDWATER QUALITY AT THE TUBE WELLS LOCATED IN THE LAKVIJAYA POWER PLANT, NOROCHCHOLAI AND SURROUNDING AREA IN KALPITIYA PENINSULA	Prof. G.W.A.R. Fernando
<b><i>Disaster Management</i></b>			
22.	Atapattu Mudiyansele Prabashi Erandi Kumari Atapattu	CURRENT WASTE MANAGEMENT PRACTICES IN KANDY AND MATALE MUNICIPAL AREAS AND WATER QUALITY AT SELECTED LOCATIONS OF MAHAWELI RIVER: A COMPARATIVE STUDY	Prof. U. Edirisinghe, Prof. N. Priyantha
23.	Hemija Sarawana Priyatharsan	FACTORS LEADING TO UNIVERSITY TEACHERS' ADOPTION AND INTEGRATION OF ICT IN TEACHING AND LEARNING: A CASE STUDY ON TEACHERS IN EASTERN UNIVERSITY SRI LANKA	Mr. S. DeegaLla
24.	Mahakumbure Udage Weerakoon Mudiyansele Chaminda Bandara Weerakoon Mahakumbura	SOCIAL IMPACT AND FLOOD RISK MITIGATION STRATEGIES IN ANURADHAPURA	Prof. K.D.W. Nandalal
<b><i>Engineering Geology &amp; Hydrogeology</i></b>			
25.	Mohammadu Hassan Zufra	EFFECTIVENESS OF LONG SUB HORIZONTAL DRAINS TO ENHANCE STABILITY OF CUT SLOPES DURING RAINY SEASON	Dr. J. Gunathilake, Mr. U.K.N.P. Dharmasena
26.	Vindya Ranmali Kalansooriya	TWO DIMENSIONAL GRAVITY INVERSION AND DEPTH PREDICTION OVER THE JAFFNA PENINSULA	Dr. J. Gunathilaka, Mr. D. Weerasinghe

27.	Munasingha Disanayakage Sandaruwan Sujeewa Karunarathne	IDENTIFICATION OF INITIATION ZONES AND PREDICT DAMAGED ZONES OF LANDSLIDES IN SRI LANKA	Dr. G. Jayathissa, Dr. J. Gunathilake
<b><i>GIS &amp; Remote Sensing</i></b>			
28.	Rajendran Priyadharshani	RESIDENTIAL AND AGRICULTURAL LAND SUITABILITY ANALYSIS FOR LIVELIHOOD ISSUES IN TEA PLANTATION ESTATES USING GIS	Dr. J. Gunatilake
29.	Ranatunga Achchige Senani Suneth Ranathunga	IDENTIFICATION OF RISK AREA FOR HUMAN ACTIVITIES DUE TO HUMAN ELEPHANT CONFLICT IN KURUNEGALA DISTRICT	Dr. J. Gunatilake, Mr. N.M.P. Gunawardena
30.	Miris Arachchige Nisansala Sandamali	MAPPING RESERVOIRS FOR AQUACULTURE USING GIS AND REMOTE SENSING IN BADULLA DISTRICT	Dr. J. Gunatilake
31.	Prabhashini Uthpalawarna Manawardhana	AN AUTOMATED APPROACH TO STUDY THE FLUVIAL GEOMORPHOLOGICAL CHANGES IN THE MAHAWELI RIVER USING GIS & REMOTE SENSING	Dr. J. Gunathilake
32.	Gannile Gedara Shashika Lakmal Bandara	GEOTAGGED ADDRESS INFORMATION FRAMEWORK FOR SERVICE PROVIDERS	Mr. P. Gunathilake
33.	Iresha Lakmali Wijerathne	A MULTI TAXA DISTRIBUTION MODELLING APPROACH TO DETERMINE BIODIVERSITY CONSERVATION PRIORITY AREAS IN SRI LANKA	Dr. R.H.S.S. Fernando, Dr. J. Gunathilake
<b><i>Industrial Mathematics</i></b>			
34.	Iduruwage Harsha Kumara Premarathna	A NOVEL STOCHASTIC MODEL FOR PREDICTING SHARE	Dr. L.S. Nawarathna
<b><i>Medical Physics</i></b>			
35.	Kankanam Gamage Kaushalya Udayani Gamage	EVALUATION OF ENTRANCE SURFACE DOSES (ESD) DUE TO DENTAL EXPOSURE AND PERFORMANCE OF THE EXPOSURE FACTORS OF THE DENTAL X-RAY MACHINES.	Dr. C.P. Jayalath, Mr. K.S.S. Kumara

36.	Hirimuthugodage Jayantha Premakumara	ESTABLISHMENT OF REGULATORY LEVELS OF CONCENTRATIONS OF NATURAL RADIOACTIVITY IN IMPORTED AND LOCALLY PRODUCED WALLS AND FLOORS TITLES USED AS BUILDING MATERIALS IN SRI LANKA	Dr. C.P. Jayalath, Mr. K.S.S. Kumara
37.	Nimal Pathirana Nirmali Karunarathna	EVALUATION OF RADIATION SAFETY PROGRAMMES IN NUCLEAR MEDICINE FACILITIES IN SRI LANKA	Dr. J.M.C. Udugama, Mr. T.H.S. Shantha
38.	Balapitiyage Madhumali Wathsala Dhanawardana	A SYMBOL BASED COMPLETE PRINTED SINHALA CHARACTER RECOGNITION SYSTEM	Dr. R.G. Ragel
39.	Chethya Maduwanthi Vidanapathirana	STUDY OF POSITIONAL DEPENDENCE IN HALF BEAM BLOCKED DOSIMETRY IN CO-60 EXTERNAL BEAM THERAPY FOR BREAST CANCER	Dr. N. Jeyakumaran, Dr. C.P. Jayalath
40.	Samitha Parinda Randeniya	GESTURE AND PEDESTRIAN BEHAVIOR ANALYSIS FOR SAFE VEHICAL NAVIGATION	Dr. R.D. Nawarathne
41.	Suvaminathan Panchadsaran	COMPARISON OF PLANE-PARALLEL PLATE AND CYLINDRICAL IONIZATION CHAMBERS FOR THE DOSIMETRY OF ELECTRON BEAM	Dr. V. Sivakumar, Mr. A. Ramalingam
42.	Conthagamage Chathura Darshana Kulathilake	EVALUATION OF THE DIAMETER OF THE ABDOMINAL AORTA AND ABDOMINAL AORTIC ANEURYSM ON COMPUTER TOMOGRAPHY IMAGES	Dr. U.J.M.A.L. Jayasinghe, Dr. B.S. Weerakoon Dr. J.J.K.H. Udupihille
<b>Physics of Materials</b>			
43.	Ranathunga Mudiyansele Ithala Gane Gedara Chaminda Ajith Kumara Ranathunga	PERFORMANCE OF COIR FIBER BIO-BRUSH IN ANAEROBIC REACTOR FOR WASTEWATER TREATMENT	Prof. M.Vithanage, Dr. C.S. Kalpage
44.	Ramya Rajagopal	GIS BASED DRASTIC MODEL FOR ASSESSING GROUNDWATER VULNERABILITY IN VAUNIA DISTRICT, SRI LANKA	Dr. J. Gunathilake, Mr. S. Sivanantharajah

45.	Sivanesanathan Rajeev	MAINSTREAMING DISASTER RISK REDUCTION INTO ESTATE HOUSE DEVELOPMENT PROJECTS IN HAZARD PRONE NUWARA ELIYA DISTRICT	Dr. J. Gunathilaka
46.	Hewa Kankanamge Hiran Dananjaya Kankanamge	HIGHLY EFFICIENT DYE SENSITIZED SOLAR CELLS WITH TiO <sub>2</sub> COATED SILVER NANOWIRE INCORPORATED TRI-LAYERED PHOTOANODE	Prof. M.K.A.L. Dissanayake, Dr. H.C.S. Perera, Dr. B.S. Dassanayake
47.	Salaman Ranasuriyalage Nilan Tharaka Jayarathna	FABRICATION AND CHARACTERIZATION OF NATURAL DYES- SENSITIZES SOLAR CELLS	Prof. L.B.D.R.P. Wijesundara, Prof. W.T.M.A.P.K. Wanninayake
<b>Medical Microbiology</b>			
48.	Dilini Wanniarachchi	COMPARISON OF RECOMBINANT AND WHOLE CELL LEPTOSPIRAL ANTIGEN BASED ELISA FOR DETECTION OF IgG ANTI-LEPTOSPIRAL ANTIBODIES	Dr. C.D. Gamage
<b>Applied Statistics</b>			
49.	Adikari Mudiyansele Prabha Lochanie Adikaram	ANALYSIS OF G.C.E. O/L EXAMINATION RESULTS OF THE SCHOOLS IN MAWANELLA DIVISION	Dr. S.P. Abeyesundara
50.	Pahala Gedara Gayan Jayalath Bandara	FINDING THE PATTERNS OF CRIME TO PREDICT, ANTICIPATE AND PREVENT THE CRIME USING CLUSTER ANALYSIS METHOD IN CHICAGO, USA	Dr. S.P. Abeyesundara
51.	Gamaralalage Dilmi Thakshila Abeywardana	STUDY OF GRAPE ROOT ARCHITECTURE	Dr. H.T.K. Abeyunadara
52.	Sandra Durage Dinesh Ruwan Kumara	TRENDS AND SEVERITY FACTORS OF SOUTHERN EXPRESSWAY ACCIDENTS	Dr. C.K. Walgampaya
53.	Shehan Binu Riseeld Pathiranage	STUDY OF SOLAR RADIATION VARIATION IN SRI LANKA	Dr. S.P. Abeyesundara
54.	Kanchana Sammani Manawasinghe	ARSENIC AND TRACE METAL ACCUMULATION IN GENETICALLY DIVERSE RICE ( <i>ORYZA SATIVA L.</i> ) VARIETIES GROWN UNDER HIGH ARSENIC STRESS	Prof. R. Chandrajith, Prof. S. Seneweera

<b>Computer Science</b>			
55.	Mylvaganam Indhujah	ECONOMIC AND ENVIRONMENTAL IMPACTS OF <i>IPIL IPIL (LEUCAENA LEUCOCEPHALA)</i> IN VALIKAMAM AREA	Dr. A. Nanthakumaran
56.	Rajitha Nuwanga Pethiyagoda	OPTIMIZATION OF THE COAGULATION PROCESS FOR TURBIDITY REMOVAL IN THE GREATER KANDY WATER TREATMENT PLANT: A CASE STUDY	Dr. C.S. Kalpage, Mr. L Wijesinghe
57.	Wanninayake Mudiyanselage Lakmini Narmada Wanninayake	A MODEL TO DETECT MALFUNCTIONS OF AN AUTOMOBILE ENGINE USING GAS EMISSION DATA	Prof. S.R. Kodituwakku, Dr. R.D. Nawarathna
58.	Krishnan Vinojkumar	ASSESSMENT OF HUMAN-LEOPARD CONFLICT IN THE SELECTED TEA PLANTATION ECOSYSTEMS OF THE HILL COUNTRY OF SRI LANKA	Mr. C. Wijesundara
59.	Bogala Vidana Ralalage Avanthi Kanchana Jayarathne	INVESTIGATION OF THE EFFECTIVENESS OF USING SELF-DETERMINATION THEORY IN TEACHING "PLANT PROCESSES" IN GRADE EIGHT SCIENCE	Dr. W.D. Chandrasena
60.	Rajapakse Mudiyanselage Thilina Chathuranga Rajapakse	A DEEP LEARNING APPROACH TO PSEUDOSCIENCE DETECTION IN THE BATTLE AGAINST MISINFORMATION	Dr. R.D. Nawarathna
<b>Information Technology</b>			
61.	Majuwana Kankanamge Iresha Dilhari Senarath	EVALUATIONS OF THE PHYSICAL ACTIVITY LEVEL, QUALITY OF THE LIFE AND PREVALENCE OF SELECTED MUSCULOSKELETAL DISORDERS AMONG UNDERGRADUATE STUDENTS OF FACULTY OF ALLIED HEALTH SCIENCES UNIVERSITY OF PERADENIYA	Prof. S.U.B. Tennakoon
62.	Anusha Dimuthu Kusum Rajapakse	KEY ASPECTS IN IMPLEMENTING IT SOLUTIONS FOR SCHOOL MANAGEMENT	Dr. T.M.H.A. Usoof

63.	Maha Mendege Nuwan Priyanka Mendis	CHITOSAN/PEO ELECTROSPUN NANOFIBER MATS AS WOUND DRESSING MATRIXES FOR CONTROLLED RELEASE OF CLOXACILLIN SODIUM	Dr. W.S.S. Gunethilake
<b>Science Education</b>			
64.	Ambewala Arachchilage Nadeeka Nilushi Kumari	HOW TEACHER PROVIDES AN ENVIRONMENT TO DEVELOP STUDENTS' SCIENCE PROCESS SKILLS OF ADVANCED LEVEL BIOLOGY TEACHING IN KURUNEGALA DISTRICT	Dr. T.M.S.S.K.Y. Ekanayake
65.	Iranthi Kaushalya Indrasena	FACTORS INFLUENCING SELECTION OF SCIENCE STREAM AT G.C.E. (A/L) IN RECENTLY UPGRADED SCHOOLS IN TELDENIYA EDUCATIONAL ZONE	Prof. K.M.G.G. Jayasuriya
66.	Madawala Liyanage Tharanga Bhathiya Jayawantha	DETERMINATION OF ACTUAL WEDGE ANGLES AND WEDGE FACTORS OF 60° MOTORIZED WEDGE FOR 6 MV ENERGY PHOTON BEAM OF ELEKTA SYNERGY PLATFORM LINEAR ACCELERATOR	Mr. A.D. Kumara
67.	Mirunalini Prashanth	EFFECTIVENESS OF DOCUMENTARIES IN TEACHING ENVIRONMENTAL BIOLOGY FOR G.C.E. A/L BIOLOGICAL SCIENCE STUDENTS IN BATTICALOA EDUCATION ZONE	Dr. A.M.T.A. Gunaratne
68.	Hitihamillage Pradeepa Ranasinghe Menike	EFFECTIVENESS OF USING SELF DETERMINATION THEORY IN TEACHING "CLASSIFICATION OF ORGANISMS" IN GRADE 10 SCIENCE	Dr. W.D. Chandrasena
69.	Ishani Weththasinghe	EFFECTIVENESS OF DIFFERENT PEDAGOGICAL APPROACHES USED FOR SCIENCE TEACHING IN SECONDARY LEVEL SCIENCE CLASSES IN A SELECTED NATIONAL SCHOOL IN SRI LANKA	Dr. W.D. Chandrasena

70.	Henkanaththe Gedara Iresha Lakmali Edirisinghe	INVESTIGATION ON OBSERAVATION SKILLS OF GRADE SEVEN STUDENTS: A CASE STUDY IN KANDY DISTICT	Dr. K. Thilakarathne
71.	Illankoon Mudiyansele Amali Anuradha Illankoon	EFFECTIVENESS OF ACTIVITY BASED LEARNING IN GRADE 10 SCIENCE: A CASE STUDY IN MAHO EDUCATION ZONE	Dr. A.C.A. Jayasundera
72.	Herath Mudiyansele Dehigasthane Ranjani Senevirathna	INVESTIGATION OF EFFECTIVENESS OF LABORATORY WORKSHOPS TO IMPROVE STUDENTS PRACTICAL SKILLS IN SCIENCE	Prof. A.D.L.C. Perera, Dr. W.D. Chandrasena
73.	Lakshika Milani Hettige	FACTORS AFFECTING STUDENTS' LOWER ENROLMENT IN GCE ADVANCED LEVEL SCIENCE STREAM: A CASE STUDY IN KULIYAPITIYA EDUCATIONAL ZONE	Dr. T.M.S.S.K. Yatigamma
74.	Dilrukshi Kumari Wijetunga	USE OF ETHNOMATHEMATICS IN SECONDARY SCHOOL CURRICULAM: A CASE STUDY IN KANDY EDUCATION ZONE	Dr. A. Amarasinghe
75.	Herath Mudiyansele Tharanga Sithari Herath	THE IMPACT OF LABORATORY PRACTICALS ON STUDENTS' PERFORMANCES IN SCIENCE SUBJECTS: A CASE STUDY IN NACHCHADUWA EDUCATION DIVISION	Dr. T.P. Ranawaka
76.	Wathsala Lakmini Samarawickrama	CRITICAL EVALUATION ON PERFORMING PRACTICAL OF G.C.E. ADVANCED LEVEL PHYSICS STREAM: A CASE STUDY IN SABARAGAMU PROVINCE	Dr. C.P. Jayalath, Dr. S.P. Abeyesundara
<b><i>Applied Epidemiology</i></b>			
77.	Sampath Manjula Dassanayake	PRELIMINARY SURVEY ON SUBCLINICAL MASTITIS IN RAMBUKKANA VETERINARY RANGE	Prof. A. Dangolla

78.	Dissanayake Pathiranage Dimuthu Sakunthala Dissanayake	ASSESSMENT OF THE SELF MEDITATION PRACTICES AMONG UNDERGRADUATE NURSES IN A LEADING PRIVATE HEALTH EDUCATIONAL INSTITUTE IN SRI LANKA	Dr. K. Pethiyagoda
79.	Akila Randika Jayamaha	ASSESSMENT OF WATER QUALITY AND POTENTIAL HEALTH IMPACT OF CONSUMING DEMATERIALIZED WATER WHICH IS PRODUCED BY THE REVERSE OSMOSIS (OR) FILTRATION	Prof. M.W.S.K. Yatigamma
80.	Senadheera Ralalage Dhanushka Sampath Senadheera	MAPPING POINT POLLUTION SOURCES OF KUDA OYA AND KARANDUPONA ELA USING GIS METHODS	Dr. J. Gunatilake, Mr. S. Sivanantharajah
81.	Warnakulasuriya Mayantha Shimosh Kurera	MORPHOLOGICAL AND MOLECULAR IDENTIFICATION OF <i>COLLETOTRICHUM</i> SPP. ASSOCIATED WITH BANANA ANTHRACNOSE DISEASE IN THE CENTRAL PROVINCE OF SRI LANKA	Prof. N.K.B. Adikaram, Prof. D.M.D. Yakandawala
82.	Atapattu Mudiyansele Muditha Piyumali Atapattu	FROMMELT ATTITUDES TOWARD CARE OF THE DYING SCALE FROM B:PSYCHOMETRIC TESTING OF THE SINHALA VERSION FOR NURSING STUDENTS	Prof. S.D. Dharmarathne
83.	Jayasundara Arachchilage Dilini Iroshika Kumari	KNOWLEDGE, PRACTICES AND ATTITUDE TOWARDS ANTIBIOTIC USE AND ANTIMICROBIAL RESISTANCE AMONG OUTPATIENT DEPARTMENT PATIENTS IN GENERAL HOSPITAL KALUTHARA, SRI LANKA	Prof. S.U.B. Tennakoon
84.	Kanagaretnam Thanujan	FACTORS AFFECTING THE QUALITY OF LIFE AMONG CANCER PATIENTS ATTENDING THE THELLIPALLAI TRAIL CANCER HOSPITAL IN JAFFNA	Dr. R. Surenthirakumaran

### 5.3. Postgraduate Output During the Year

#### 5.3.1. Graduation

Even under Covid-19 pandemic situation, all academic activities have successfully been completed as per the scheduled in the calendar of dates, during the 2020/21 academic year as well. Accordingly, 154 graduands from Postgraduate Institute of Science received their postgraduate degrees.

Degree	No. of Students
Ph.D.	03
M. Phil.	14
M.Sc.	123
Masters	14
<b>Total</b>	<b>154</b>

#### 5.3.2 Output of Postgraduate Degree Programmes 2021 (from January to December 2021)

Programme of Study	Degree (PD/Master's/MPhil/ PhD)	No. Graduated Total
Analytical Chemistry	Postgraduate Diploma	20
Applied Statistics	Postgraduate Diploma	8
Nanoscience And Nanotechnology	Postgraduate Diploma	10
Clinical Biochemistry	Postgraduate Diploma	1
Computer Science	Postgraduate Diploma	5
Disaster Management	Postgraduate Diploma	9
Experimental Biotechnology	Postgraduate Diploma	3
Biodiversity, Ecotourism and Environment Management	Postgraduate Diploma	1
Water Resources Management	Postgraduate Diploma	3
GIS and Remote Sensing	Postgraduate Diploma	15
Industrial Chemistry	Postgraduate Diploma	8
Industrial Mathematics	Postgraduate Diploma	14
Medical Physics	Postgraduate Diploma	4
Physics Of Materials	Postgraduate Diploma	9
Science Education	Postgraduate Diploma	6
Applied Epidemiology	Postgraduate Diploma	1
Analytical Chemistry	Master's	13
Applied Statistics	Master's	9
Nanoscience And Nanotechnology	Master's	9
Clinical Biochemistry	Master's	0
Computer Science	Master's	21
Disaster Management	Master's	3

Experimental Biotechnology	Master's	11
Engineering Geology & Hydrogeology	Master's	7
Biodiversity, Ecotourism And Environment Management	Master's	3
Environmental Science	Master's	19
Water Resources Management	Master's	1
GIS And Remote Sensing	Master's	14
Industrial Chemistry	Master's	6
Industrial Mathematics	Master's	9
Information Technology	Master's	15
Medical Physics	Master's	8
Medical Microbiology	Master's	1
Pharmaceutical Botany	Master's	0
Physics Of Materials	Master's	5
Science Education	Master's	14
Applied Epidemiology	Master's	4
Biochemistry & Molecular Biology	M.Phil	1
Chemical Sciences	M.Phil	3
Mathematics	M.Phil	1
Earth Sciences	M.Phil	3
Physics	M.Phil	2
Plant Sciences	M.Phil	2
Statistics & Computer Science	M.Phil	2
Zoological Sciences	M.Phil	2
Chemical Sciences	Ph.D	1
Mathematics	Ph.D	1
Plant Sciences	Ph.D	1
Statistics & Computer Science	Ph.D	1
<b>Total</b>		<b>309</b>



### 5.3.3 Local Students New Entrants and Enrolment (Total No. of Students) in Postgraduate Degree Programmes 2021

Programme of Study	New Entrants (January – December 2021)	Student Enrolment (Total no. of registered students - academic work in progress (as at 31st December 2021))
<b>Postgraduate Diploma</b>		
Science Education	0	11
Sub Total	0	11
<b>Master's Degree (M.Sc.)</b>		
Analytical Chemistry	0	175
Applied Statistics	1	112
Biodiversity, Ecotourism & Environment Management	15	73
Computer Science	3	308
Clinical Biochemistry	12	47
Disaster Management	1	76
Engineering Geology & Hydrogeology	0	143
Environmental Science	2	142
Experimental Biotechnology	0	92
GIS & Remote Sensing	0	169
Industrial Chemistry	1	57
Industrial Mathematics	0	65
Information Technology	32	137
Medical Physics	0	16
Nanoscience & Nanotechnology	5	164
Pharmaceutical Botany	9	36
Physics of Materials	14	77
Science Education	3	208
Medical Microbiology	0	69
Fish & Wildlife Management	0	0
Gemmology & Industrial Minerals	9	38
Water Resources Management	0	36
Applied Epidemiology	7	33
Data Science	42	87
Sub Total	156	2360
<b>M.Phil.</b>		
Biochemistry & Molecular Biology	5	17
Chemical Sciences	22	46
Environmental Science	7	29

Earth Sciences	8	40
Mathematics	3	7
Physics	4	17
Plant Sciences	2	14
Statistics & Computer Science	4	13
Science Education	3	9
Zoological Sciences	4	16
<b>Sub Total</b>	<b>62</b>	<b>208</b>
<b>Ph.D.</b>		
Biochemistry & Molecular Biology	0	1
Chemical Sciences	4	6
Environmental Science	4	6
Earth Sciences	1	3
Mathematics	2	4
Physics	1	3
Plant Sciences	7	7
Statistics & Computer Science	6	5
Science Education	0	1
Zoological Sciences	2	4
<b>Sub Total</b>	<b>27</b>	<b>40</b>
<b>Grand Total</b>	<b>245</b>	<b>2619</b>

### 5.3.4 Foreign Students enrolment in Postgraduate Degree Programmes

Programme of Study	Country	Student Enrolment (total no. of registered students) (as at 31st December 2021)		
		Male	Female	Total
<b>Master's Degree</b>				
Computer Science (occasional student)	Germany	0	1	1
Gemology & Industrial Minerals	India	1	1	2
Medical Physics	Nepal	2	0	2
GIS and Remote Sensing	Congo	1	0	1
<b>Sub Total</b>		<b>4</b>	<b>2</b>	<b>6</b>
<b>M.Phil.</b>				
Environmental Science	China	1	0	1
<b>Sub Total</b>		<b>1</b>	<b>0</b>	<b>1</b>
<b>Ph.D.</b>				
Earth Sciences	Australia	1	0	1

Sub Total	1	0	1
<b>Grand Total</b>	<b>6</b>	<b>2</b>	<b>8</b>

#### 5.4. Research Facilities and Activities

##### 5.4.1. Research facilities and laboratory functioning

Laboratories were prepared for students to conduct their research projects conveniently by providing facilities including needy equipments, chemical & consumable stores and storage areas.



##### 5.4.2. PGIS research grants programme 2021

PGIS grant programme 2021 was successfully implemented. Twelve (12) applications have been selected from academic staff members attached to PGIS. The total budget allocation for 2021/2022 is LKR 6 million.

## 6. CONFERENCES AND SHORT-TERM PROGRAMMES

The PGIS annually conducts 15-30 short-term programmes including conferences and in-service training programmes; some of those programmes are conducted on a regular basis. The regular short-term programmes conducted in 2021 include three ‘**Online Workshops on Scientific Writing**’, one ‘**Short Course on GIS and Applications**’ and the ‘**PGIS Research Congress (RESCON 2021)**’. Some additional short-term programmes conducted in 2021 were: ‘Training Programme on Digital Case Management Systems with Technical Tools’ in collaboration with the Department of Statistics & Computer Science, Faculty of Science, ‘Webinar and On-ground Training on FTIR’ and ‘Training on Laboratory Management for Technical Officers’ in collaboration with the University Research

Council, ‘Online Workshop on Current Status and Future Prospects of Pharmaceutical Industry in Sri Lanka’, ‘Online Workshop on Value-Added Products from Sri Lankan Carbonate Deposits for a Sustainable Economy’, ‘Advanced Course in Organic Chemistry’, ‘Online Career Guidance Workshop for M.Sc. in Science Education Special Batch’ and ‘Two-day E-Workshop on Application of Molecular Techniques in Vector-borne Disease Research’. Three additional conferences and two Pre-conference Webinars were also held in 2021: ‘2<sup>nd</sup> International Conference on Mathematics & Mathematics Education (ICMME) and Pre-conference Webinar’, ‘8<sup>th</sup> International Symposium on Water Quality and Human Health: Challenges Ahead’ and ‘Sri Lankan Social Enterprise Summit and Pre-conference Webinar’ in collaboration with the BLII-TTO-SEIL/University of Peradeniya and SEIC/Uva Wellassa University. Technical sessions of the PGIS Research Congress and all the other conferences were conducted through a virtual platform. The PGIS also offers consultancy services to local industries and state- and private-sector institutions.

### 6.1. PGIS Research Congress (RESCON) - 2021



The PGIS Research Congress is the major annual research conference of the Postgraduate Institute of Science. The congress provides an excellent platform to share knowledge and network with scientists across the country and abroad through the presentation of cutting-edge research.

The Congress was held on the 29<sup>th</sup>, 30<sup>th</sup>, and 31<sup>th</sup> of October 2021. The Inauguration Ceremony, together with the keynote speech by Prof. Sagarika Ekanayake, was held on the 29<sup>th</sup> of October, and the Technical Sessions were held on 30<sup>th</sup> and 31<sup>st</sup> of October.

Technical Sessions of RESCON 2021 was completely online, due to the health situation of the country. Even though the presenters were not physically present, the technical sessions were a resounding success with participants attending from all over the country.



## 6.2. Short-Term Programmes



Some additional short-term programmes conducted in 2021 were: ‘E-Workshop on Application of Molecular Techniques in Vector-borne Disease Research’, ‘Workshop on Current Status and Future Prospects of Pharmaceutical Industry in Sri Lanka’, ‘Workshop on Value-Added Products from Sri Lankan Carbonate Deposits for a Sustainable Economy’, ‘Workshop on Career Guidance’ Two additional conferences were also held in 2021: **International Conference on Mathematics and Mathematics Education (ICMME 2021)** in collaboration with the Postgraduate Institute of Science, the Ministry of Education of Sri Lanka, and the National Institute of Education and 2<sup>nd</sup> International Conference on **Eighth International Symposium on Water Quality and Human Health**.

The PGIS also offers consultancy services to local industries and state and private-sector institutions.

### 6.2.1 Workshops Held in 2021

No.	Programme/Theme	Organized by Fac./Dep./Center/Unit	Date(s)	No. of Participants
1.	Training Programme on Digital Case Management Systems with Technical Tools	PGIS & Faculty of Science (Board of Study & Department - Statistics & Computer Science)	Jan 7 - 8	40
2.	Webinar and On-ground Training on FTIR	University Research Council & PGIS	March 18	40
3.	Training on Laboratory Management for Technical Officers	University Research Council & PGIS	April 6	44
4.	21 <sup>st</sup> Workshop on Scientific Writing for PGIS Students	PGIS	July 3-4 & 10-11	150
5.	Workshop on Current Status and Future Prospects of Pharmaceutical Industry in Sri Lanka	PGIS - Board of Study in Biomedical Sciences	August 6	168
6.	Workshop on Value-Added Products from Sri Lankan Carbonate Deposits for a Sustainable Economy	PGIS - Board of Study in Earth Sciences	August 16	85
7.	22 <sup>nd</sup> Workshop on Scientific Writing for PGIS Students	PGIS	Aug 28-29 & Sep 4-5	239
8.	23 <sup>rd</sup> Workshop on Scientific Writing for PGIS Students	PGIS	Oct 2-3 & 9-10	164
9.	Advanced Course in Organic Chemistry	PGIS - Board of Study in Chemical Sciences	Aug 7 - Dec	39
10.	Pre-conference Webinar	PGIS - Boards of Study in Mathematics & Science Education	October 7	~2000
11.	2 <sup>nd</sup> International Conference on Mathematics & Mathematics Education (ICMME)	PGIS - Boards of Study in Mathematics & Science Education	October 8 - 9	~225
12.	Sri Lankan Social Enterprise Summit: Pre-conference Webinar	BLII-TTO-SEIL/Univ. of Peradeniya, SEIC/Uva Wellassa Univ. & PGIS	October 14	76
	Sri Lankan Social Enterprise Summit		October 15	157
13.	8 <sup>th</sup> PGIS Research Congress (RESCON-2021)	PGIS	Oct 29 - 31	~300

14.	125 <sup>th</sup> Short Course on GIS & RS	PGIS - Board of Study in Earth Sciences	Nov 1 - 6	27
15.	Career Guidance Workshop for M.Sc. in Science Education Special Batch	PGIS - Board of Study in Science Education	Nov 20	29
16.	8 <sup>th</sup> International Symposium on Water Quality and Human Health: Challenges Ahead	PGIS - Board of Study in Environmental Science	Nov 26 - 27	~180
17.	Two-day E-Workshop on Application of Molecular Techniques in Vector- borne Disease Research	PGIS - Board of Study in Zoological Sciences	Dec 18 - 19	56

## 7. DEVELOPMENT OF HUMAN AND PHYSICAL RESOURCES

### 7.1 Human Resources

During the year both faculty as well as non-academic staff of PGIS rendered valuable service to the achievement of institutional goals.

#### 7.1.1 Academic Staff (Visiting)

Board of Study	Subject	Senior Professor/ Professor/Assoc. Professor	Senior Lecturer/ Lecturer	Instructor
Biochemistry of Molecular Biology	Clinical Biochemistry	09	14	-
	Experimental Biotechnology	09	05	10
Chemical Sciences	Analytical Chemistry	02	14	9
	Industrial Chemistry	14	16	05
	Nanoscience & Nanotechnology	18	25	04
Earth Sciences	Disaster Management	04	15	-
	Engineering Geology and Hydrogeology	06	16	07
	GIS & Remote Sensing	-	11	08
	Gemology & Industrial Minerals	15	20	-
	Water Resources Management	14	08	-
Environmental Science	Biodiversity, Ecotourism & Environment Management	09	07	02
	Environmental Science	10	11	04
Mathematics	Industrial Mathematics	03	14	-
Physics	Physics of Materials	03	11	-
	Medical Physics	04	22	-
Plant Sciences	Medical Microbiology	06	25	02
	Pharmaceutical Botany	13	17	-
Science Education	Diploma in Science Education	-	13	-
	Science Education	24	41	02
Statistics & Computer Science	Applied Statistics	02	12	-
	Computer Science	05	09	08
	Information Technology	05	15	07
	Data Science	05	16	-
Zoological Sciences	Applied Epidemiology	06	11	-
<i>TOTAL</i>		186	368	68

### 7.1.2 Approved Cadre and Present Staff 2021 - All Staff

Service Category	Designation	Salary Code	DMS approved Cadre	Existing Cadre		Vacancies
				Permanent	Temporary	
<b>Senior Level</b>	Director	U - AC 5	01	01	-	-
	Professor	U - AC 5	05	-	-	03
	Associate Professor	U - AC 4		-	-	
	Senior Lecturer/Lecturer/Lecturer (Probationary)	U - AC 3		01	01 (Resigned on 03.12.2021)	
	Senior Assistant Registrar/Deputy Registrar	U - EX 2	01	01 (Assistant Registrar)	Duties covered by an Assistant Registrar	
	Senior Assistant Bursar/Deputy Bursar	U - EX 2	01	01	-	-
	Assistant Registrar	U - EX 1	01	01	-	-
	Electronics Engineer	U - EX 1	01	01	-	-
<b>Tertiary Level</b>	Scientific Assistant	U - AS 1	01	-	-	01
<b>Secondary Level</b>	Technical Officer (Audio Visual)	U - MT 1	01	01	-	-
	Technical Officer	U - MT 1	03	02	-	01
	Management Assistant	U - MN I	07	11 (01 MA was retired on 06.09.2021)	-	-
			04 (Personal to the Holder)		-	-
	Management Assistant (Store Keeping)	U - MN I	01	01	-	-
	Management Assistant (Book Keeping)	U - MN I	01	01	-	-
	Management Assistant (Shroff)	U - MN I	01	01	-	-
<b>Primary Level</b>	Driver	U - PL 3	03	02	-	01
	Electrician	U - PL 3	01	-	-	01
	Lab Attendant	U - PL 2	01	-	-	01
	Works Aide	U - PL 1	04	03	-	01
	Office Machine Operator	U - PL 1	01	-	-	01
<b>*)Temporary Research Assistant</b>		Fixed	02	-	-	02
<b>*)Temporary Instructor</b>		Fixed	02	-	01 (Resigned on 05.08.2021)	01

\*) Cadre positions of Temporary Research Assistant and Temporary Instructor are not permanently categorized.

## 7.2 Physical Resources

The Data Science Unit of the PGIS was upgraded Hard disk Dell (2.4 TB RPM SAS 12 Gbps 2.5 in) and IT Infrastructure of the PGIS was further enhanced.

### 7.2.1 Information on IT Utilization

**Table 1: IT Infrastructure/ Labs/Internet**

Number of labs for Students	Number of computers for Students	Number of labs for Education (Academics)	Number of computers for Education (Academics)
3	179	3	2

**Table 2: IT Peripherals (as at 31st December 2021)**

	No.
Number of Computers for students	
Desktop computers	124
Laptops/tabs	55
Number of Computers for Administrative Staff	
Desktop computers	4
Laptops/tabs	4
Number of Computers for Academic and Academic Support Staff	
Desktop computers	2
Laptops/tabs	1
Number of Computers for Nonacademic Staff	
Desktop computers	20
Number of servers	
	11
Number of printers (heavy duty)	
	2
Number laser printers	
	15
Number of scanners	
	1
Other IT equipment - Digital cameras, etc.	
Smart Board	3
Web Cameras	5
Digital camera	1
Number of computer labs	
	3
Computers in each lab	
	56,68,55
Number of student computers for internet accessing	
	179
Number of staff Computers for internet accessing	
	24

## 8. ADMINISTRATIVE AND FINANCIAL ACHIEVEMENT

PGIS was received a qualified audit opinion for 2021.

### 8.1 Details of the Infrastructure Facilities

#### 8.1.1 Total Income in 2020 Vs 2021

	2020 (Rs.) (Restated)	2021(Rs.)
Recurrent Grant	19,500,000.00	24,000,000.00
Self-Financing Activities-Net Value	60,327,684.00	112,823,690.00
All other Internal Income	52,993,994.00	55,688,455.00
<b>Total</b>	<b>132,821,678.00</b>	<b>192,512,145.00</b>

#### 8.1.2 Capital Payments in 2020 Vs 2021

Capital Payments	Government Grant		Generated Income		Total Payments	
	2020 (Rs)	2021 (Rs)	2020 (Rs)	2021(Rs)	2020 (Rs)	2021 (Rs)
Building		2,000,000.00	680,955.00	2,062,595.00	680,955.00	4,062,595.00
Lab & teaching Equipment	2,500,000.00	2,000,000.00	18,081,084.00	6,215,136.00	20,581,084.00	8,215,136.00
Office Equipment			1,808,744.00	8,796,209.00	1,808,744.00	8,796,209.00
Library Books			223,406.00		223,406.00	
Sports Goods			46,470.00		46,470.00	
<b>Total</b>	<b>2,500,000.00</b>	<b>4,000,000.00</b>	<b>20,840,659.00</b>	<b>17,073,940.00</b>	<b>23,340,659.00</b>	<b>21073940.00</b>

### 8.1.3 Recurrent Expenditure

Programme	Expenditure (Rs.)
Personal Emoluments –Academic	39,276,122.00
Personal Emoluments -Non Academic	30,800,011.00
Travelling Expenses	131,585.00
Supplies	3,086,834.00
Maintenance Expenses	3,571,843.00
Contractual Services	7,152,439.00
Other Recurrent Expenses	20,016,096.00
Depreciation	39,601,759.00
Grand Total	143,636,689.00

### 8.1.4 Financial Progress (Expenditure)

Subject	2021
Recurrent	100%
Capital	100%

### 8.1.5 Financial Performance Analysis

Subject	Exp. Per Student Rs.
Recurrent Expenditure per student (RE)	54844.09

### 8.1.6 Fund Allocation, Utilization and Management

	Allocation (Mn)	Received and Utilized (Mn)
Capital Grants	10	4
Recurrent Grants	24	24

### 8.1.7 Research Grants Received (External Funds, 2017-2021)

Year	No. of Research Grants	Value (Rs. Mn)
2017	8	19874125.00
2018	4	14001100.00
2019	6	10288860.00
2020	4	995000.00
2021	2	341898.00

### 8.1.8 Details of Research Grant Expenditure (Foreign Funded) Year 2021

Name and Details	Grant	Funding Agency	Total Cost .
Prof. K B S N Jinadasa	6286	Singapore Newrt	2,616,056.65
Prof. D Yakandawala	6292	P 33148 B	648,000.00
Prof. R S Rajakaruna	6290	BCG Conservation Grant	69,582.00
Prof. I A U N Gunatilleke	6230	Helmholts Center	97,569.30
Dr. K G N Nanayakkara	6284	IFS Sweden Grant	836,148.00

### 8.1.9 Details of Research Grant Expenditure (Local Funded) Year 2021

Name and Details	Grant	Funding Agency	Total Cost
Prof. K M G Jayasuriya	6305	Ministry of Environment	96832.00
Prof. A Wickramasinghe	6265	NSF	357,278.04
Prof. R M G Rajapakshe	6289	NSF	497,570.95
Prof. B M R Bandara	6269	CARP	806,025.00
Dr. S C K Rubasinghe	6270	NSF	74,520.00
Prof. Rohana Chandrajith	6273	NSF	144,727.00
Dr. H C S Perera	6274	NSF	78,219.96
Prof. R M G Rajapakse	6275	NSF	361,040.44
Dr. Nanda Gunawardhana	6278	NSF	840,567.12
Prof. H M S P Madawala	6279	Ministry of Mahaweli Development & Environment	14,710.00
Ms. P M Weeraratna	6281	NSF	618,307.08
Prof. A Pitawala	6282	NRC	493,461.22
Ms. R W M G K Kapukutuwa	6283	NSF	1,112,237.60
Ms. Galabadage	6288	NSF	1,232,193.48
Dr. N S P Kumburegama	6287	Ministry of Environmental	21,385.00
Prof. H M T G A Pitawala	6242	Sakura V.T(PVT) Ltd	14,000.00

### 8.1.10 Details of Research Grant awarded by PGIS Year 2021

Name and Details	Grant No	Funding Agency	Total Cost
Dr. P A Dharmapriya	6302	PGIS	150,000.00
Prof. N W B Balasooriya	6299	PGIS	55,100.00
Dr. T M W J Bandara	6293	PGIS	262,200.00
Dr. B M K Pemasiri	6295	PGIS	-
Dr. W R P Wijesinghe	6297	PGIS	65,264.00
Dr. H A C K Ariyaratna	6294	PGIS	240,000.00
Prof. Deepthi Yakandawala	6301	PGIS	40,309.00
Prof. K B Ranawana	6304	PGIS	164,600.00
Dr. T C Weeraratne	6300	PGIS	-
Prof. W B Daundasekara	6303	PGIS	90,000.00
Dr. T H K R De Silva	6296	PGIS	-
Dr. Amalka J Pinidiyaarachchi	6298	PGIS	18,000.00

## 9. FAILURES AND JUSTIFICATIONS

The scheduled academic programmes for year 2021 could not been conducted on time due to pandemic situation in the country. Online lectures were delivered and end semester examinations were conducted adhering to Covid-19 prevention guidelines as remedial measures.

## 10. FUTURE PLANS OF PGIS

- Development and Installation of Management Information System for registration process, document handling, instrument booking and for data management.
- Purchasing sophisticated major instruments/equipment to develop PGIS as a high-quality well-equipped research center and development of research material storage facility for laboratories to promote a good research practices and research culture
- Mechanisms to promote degree programmes and other PGIS events (Social media, PGIS YouTube channel, media team and PGIS ambassadors to promote events among foreign institutes an Setting up career guidance and counseling mechanisms.
- Implementation of new industrial outreach activities such as PGIS startup programme and R & D support for industries
- Awarding PGIS research grants
- Introducing new M.Sc. programmes, conferences, workshops and awareness programmes with the latest topics in the world to meet with the current demand
- Appropriate strategies to be further implemented to protect and minimize the damage to the environment adhering sustainable development policies
- Attraction and registration of more international students to improve university ranking.

## 11. SUSTAINABLE DEVELOPMENT

### 11.1 Sustainable Development Programmes Implemented at the Postgraduate Institute of Science in 2021

- Improve the garbage segregation process currently being practiced at the PGIS
- Conduct awareness programmes regularly on waste Management.
- Regular maintenance of laboratories to minimize the risk hazards.
- 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.
- Conduct awareness programmes for Postgraduate students on using the chemical and instruments laboratories for reducing the possible risk and to maintain laboratories properly.
- Introducing guidelines for the disposal of hazardous chemicals and bio hazardous waste.
- Landscaping of the surrounding area of the PGIS and interior renovations and reorganization.
- Launching the PGIS journal (International Journal on Environmental Issues.) and publishing the second special issue of Ceylon Journal of Science.
- Proper maintenance of chemical storage areas under the standard conditions and locations
- Take necessary action to relocate the exhauster fans and fire safety equipment
- Implementation of proper guidelines to minimize the usage of paper.
- Introducing Management Information System (MIS) in order to enhance the quality of academic and administrative work and to develop a paperless effective communication system.
- Identification of effective measures to minimize the usage of energy.
  - Introduce motion sensing bulbs
  - Introduce solar power plant to generate clean energy
  - Conducting capacity building programmes to promote the efficient use of energy
- Providing financial support to the University of Peradeniya for purchasing incinerator
- Providing financial assistance for support to the University of Peradeniya to improve the academic programmes.
- Align with policies and guidelines of the University of Peradeniya regarding the sustainable Management
  - 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

## 11.2 Sustainability Development Related Research Conducted During 2021

Name of the Student	Title of the Research
Manawasinghe, K S	ARSENIC AND TRACE METAL ACCUMULATION IN GENETICALLY DIVERSE RICE ( <i>Oryza sativa</i> L.) VARIETIES GROWN UNDER HIGH ARSENIC STRESS
Dharmarathna, A G G K	IMPACTS OF ECOTOURISM BASED ON WELIHENA VILLAGE AREA IN THE MATALE DISTRICT
Aberathne, M A S U M	ESTIMATION OF BIOMASS AND CARBON STOCK IN DUNUMADALAWA FOREST RESERVE IN KANDY DISTRICT, SRI LANKA
Nitharsan, A	EVALUATION OF AVITOURISM POTENTIAL OF DELFT ISLAND, JAFFNA, SRI LANKA
Galappaththi, M C A	DIE-BACK <i>Manilkara hexandra</i> IN BUNDALA NATIONAL PARK: POTENTIAL EDAPHIC FACTORS
Rathnayake, W A P P	HIGH STRENGTH WASTEWATER TREATMENT USING COMBINED BIOLOGICAL AND PHYSICOCHEMICAL METHODS
Kotabewatta, P A	BIOSORPTION OF HEAVY METAL IONS ON <i>Artocarpus nobilis</i> FRUIT PEEL AND ITS APPLICATIONS FOR TREATMENT OF INDUSTRIAL EFFLUENTS

# **Financial Statements 2021**

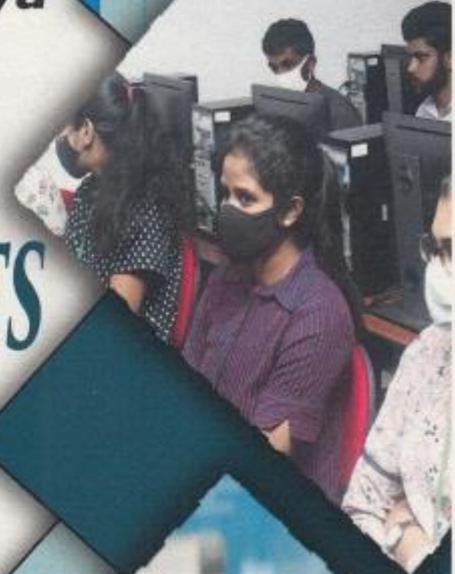


**Postgraduate Institute  
of Science  
University of Peradeniya**

# **FINANCIAL STATEMENTS 2021**



**UNIVERSITY OF PERADENIYA  
P.O. BOX 25  
PERADENIYA**

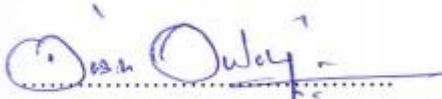


POSTGRADUATE INSTITUTE OF SCIENCE

STATEMENT OF FINANCIAL POSITION  
AS AT 31<sup>ST</sup> DECEMBER 2021

	Note	As at 31/12/2021 Rs.	Restated As at 31/12/2020 Rs.
<b>Current Assets</b>			
Cash & Cash Equivalents	1	41,989,765	31,581,279
Investments	2	466,579,690	429,868,066
Receivables & Deposits	3	40,544,068	37,545,648
Loan & advances to staff	4	1,114,222	1,285,858
Inventories	5	2,969,933	2,566,033
<b>Total Current Assets</b>		<b>553,197,678</b>	<b>502,846,885</b>
<b>Non Current Assets</b>			
Loan & advances to staff	4	2,855,768	2,988,656
Financial misappropriation - (2008-2016)		50,338,160	50,338,160
Intangible assets	6	1,440,241	233,751
Property, Plant & Equipments	7	207,391,897	225,919,717
<b>Total Non Current Assets</b>		<b>262,026,066</b>	<b>279,480,284</b>
<b>Total Assets</b>		<b>815,223,744</b>	<b>782,327,168</b>
<b>LIABILITIES</b>			
<b>Current Liabilities</b>			
Accrued expenses	8	3,477,470	8,350,767
Other payables	9	15,261,400	12,411,610
Refundable deposits	10	10,231,679	9,288,566
Differed income		12,138,084	20,688,162
Provisions	11	20,739,916	8,887,549
		<b>61,848,549</b>	<b>59,626,655</b>
<b>Non Current Liabilities</b>			
Provision for gratuity	12	8,823,126	9,355,471
Funds	13	5,514,118	11,430,184
Refundable deposits	10	3,076,500	3,815,000
<b>Total Non Current Liabilities</b>		<b>17,413,744</b>	<b>24,600,655</b>
		<b>79,262,293</b>	<b>84,227,310</b>
<b>NET ASSETS</b>		<b>735,961,451</b>	<b>698,099,859</b>
<b>EQUITY</b>			
General Reserves		602,730,942	552,376,450
Restricted funds	14	11,587,303	9,589,332
Capital grant		108,331,879	121,343,714
Revaluation reserve		13,311,327	14,790,363
		<b>735,961,451</b>	<b>698,099,859</b>

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



Mr. 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  
Director/PGIS

The Accounting Policies and notes on pages 7 to 12 from an integral part of these Financial Statements.

26.02.2022

POSTGRADUATE INSTITUTE OF SCIENCE

STATEMENT OF FINANCIAL PERFORMANCE  
FOR THE YEAR ENDED 31<sup>ST</sup> DECEMBER 2021

Revenue	Note	2021	<u>Restated</u>
		<u>Rs.</u>	<u>2020</u> <u>Rs.</u>
Government Grant (Recurrent)		24,000,000	19,500,000
Programme Fee		89,992,972	35,177,630
Registration Fee		3,436,857	4,300,250
Examination Fee		1,479,400	1,502,000
Miscellaneous Income	15	2,441,197	4,924,126
Research Congress Income		340,159	1,355,875
Medical Fee		51,450	87,700
Services & Facilities Fee		113,000	271,060
Vehicle Hiring Charges		15,835	195,421
Library Tickets		469,500	927,000
Supervision Fee		1,062,500	689,000
Interest Income	16	26,419,015	29,717,172
Bench Fee		1,433,750	577,500
Exchange Gain/Loss		12,128,771	4,504,438
Amortization of Capita Grant	17	17,011,834	18,305,903
Research Grant Income		12,115,904	10,786,604
		<b>192,512,145</b>	<b>132,821,678</b>
<b>Expenses</b>			
Personal Emoluments	18	70,076,133	56,945,929
Travelling	19	131,585	335,489
Supplies & Consumables	20	3,086,834	4,861,994
Maintenance	21	3,571,843	1,712,909
Contractual Services	22	7,152,439	6,827,087
Other Expenses	23	20,016,096	18,937,333
Depreciation	24	39,601,759	38,585,834
		<b>143,636,689</b>	<b>128,206,573</b>
<b>Net surplus/deficit for the year</b>		<b>48,875,456</b>	<b>4,615,105</b>

POSTGRADUATE INSTITUTE OF SCIENCE

CASH FLOW STATEMENT FOR THE YEAR ENDED 31<sup>ST</sup> DECEMBER 2021

	2021	Restated 2020
<b>Cash Flows from Operating Activities</b>		
Surplus form Ordinary Activities	48,875,456	4,615,105
<b>Non - Cash movements</b>		
Depreciation & Amortization	39,753,792	38,647,134
Amortization of Capital Grants	(17,011,834)	(18,305,903)
Interest Income	(26,419,015)	(29,717,172)
Increase / Decrease Provision for Audit Fees	(420,000)	(338,790)
Increase / Decrease Provision for Gratuity	(532,345)	348,646
Increase / Decrease Provision for Security Charges	130,221	-
Increase / Decrease Provision for Visiting Lecture Fees	12,014,255	1,016,843
Increase / Decrease Provision for Cleaning Services	127,890	-
<b>Operating surplus before the working capital changes</b>	<b>56,518,420</b>	<b>(3,734,137)</b>
Increase / Decrease Receivables	(3,351,127)	12,196,044
Increase / Decrease Loans & Advances	304,524	(78,414)
Increase / Decrease Inventories	(403,900)	(155,025)
Increase / Decrease Accrued Expenses	(4,873,297)	1,945,348
Increase / Decrease Payables	2,298,634	(10,749,632)
Increase / Decrease Refundable Deposits	204,613	723,870
Increase / Decrease Differed Income	(8,550,078)	12,738,570
<b>Net Cash Flow Operating Activities</b>	<b>42,147,789</b>	<b>12,886,624</b>
<b>Cash Flow from Investing Activities</b>		
Purchase of Property Plant & Equipments	(20,805,115)	(26,260,173)
Purchase of Intangible Assets	(1,358,522)	(47,500)
Investment in Fixed Deposits	(171,269,254)	(238,962,982)
Withdrawal of Fixed Deposits	134,557,629	219,745,480
Interest Income	26,771,723	31,255,057
<b>Net Cash Flow from Investing Activities</b>	<b>(32,103,539)</b>	<b>(14,270,118)</b>
<b>Cash Flows from Financing Activities</b>		
Government Capital Grants	4,000,000	2,500,000
Scholarship Funds	53,477	33,281
Research Grant Receipts	9,190,658	9,806,795
Research Grant Payments	(12,879,899)	(15,239,457)
<b>Net Cash Flows from Financing Activities</b>	<b>364,236</b>	<b>(2,899,381)</b>
Increase / Decrease in Cash & Cash Equivalents	10,408,486	(4,282,875)
Cash & Cash Equivalent at the Beginning of the Year	31,581,279	35,864,154
Cash & Cash Equivalent at the End of the Year	<b>41,989,765</b>	<b>31,581,279</b>

POSTGRADUATE INSTITUTE OF SCIENCE

STATEMENT OF COMPARISON BUDGET & ACTUAL  
FOR THE YEAR ENDED 31<sup>ST</sup> DECEMBER 2021

Revenue	Note	<u>2021 Actual</u> Rs.	<u>2021 Budget</u> Rs.
Government Grant (Recurrent)		24,000,000	24,000,000
Programme Fee		89,992,972	71,500,000
Registration Fee		3,436,857	3,750,000
Examination Fee		1,479,400	1,700,000
Miscellaneous Income	15	2,441,197	1,610,000
Research Congress Income		340,159	275,000
Medical Fee		51,450	95,000
Services & Facilities Fee		113,000	360,000
Vehicle Hiring Charges		15,835	15,000
Library Tickets		469,500	930,000
Supervision Fee		1,062,500	775,000
Interest Income	16	26,419,015	20,399,000
Bench Fee		1,433,750	875,000
Exchange Gain/Loss		12,128,771	
Amortization of Capita Grant	17	17,011,834	
Research Grant Income		12,115,904	-
		<b>192,512,144</b>	<b>126,284,000</b>
<b>Expenses</b>			
Personal Emoluments	18	70,076,133	72,761,000
Travelling	19	131,585	2,830,000
Supplies & Consumables	20	3,086,834	8,261,000
Maintenance	21	3,571,843	6,250,000
Contractual Services	22	7,152,439	11,514,000
Other Expenses	23	20,016,096	24,668,000
Depreciation	24	39,601,759	-
		<b>143,636,689</b>	<b>126,284,000</b>
<b>Net surplus/deficit for the year</b>		<b>48,875,456</b>	<b>-</b>

POSTGRADUATE INSTITUTE OF SCIENCE

STATEMENT OF CHANGES IN NET ASSET/EQUITY  
FOR THE YEAR ENDED 31<sup>ST</sup> DECEMBER 2021

	Capital Grant	Revaluation Reserve	Retain Earnings	Total
Balance as at 31.12.2020	121,343,714	14,790,363	552,376,450	688,510,527
Correction of Accounting Errors - Retain Earning to the year 2020			(11,223,850)	(11,223,850)
Correction of Accounting Errors - Retain Earning as at 31.12.2019			11,223,850	11,223,850
Restated Balance as at 01.01.2021	121,343,714	14,790,363	552,376,450	688,510,527
Surplus/Deficit for the period			48,875,456	48,875,456
Capital Grant received	4,000,000			4,000,000
Transfer to General Reserve		(1,479,036)	1,479,036	
Amortization of Grant	(17,011,834)			(17,011,834)
	108,331,879	13,311,327	602,730,942	724,374,148

## **Notes to the Financial Statements**

### **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 on accrual basis. All accounting policies adopted by the PGIS are applied consistently with those of the previous year. Change in accounting policies have been disclosed separately.

#### **(b) Basis of measurement**

The Financial Statements of PGIS are prepared under the historical cost convention and do not take into accounts of changes on 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**

Lands, Buildings, Laboratory and Teaching Equipment, Fixtures & Fittings, Library Books and Periodicals, Motor Vehicles, and Other Assets are included the items acquired out of government grant, 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/revaluation less accumulated depreciation. The cost of property, plant and equipment is the cost of purchase or construction together with any incidental capital expenses there on. Revaluations of assets are currently being carried out by the revaluation committee and revalued amounts will be taken to the accounts in year 2022.

#### 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 are 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 capital expenditure incurred to fixed the roof of the building in the year has been depreciated during the remaining useful life of the building. The estimated useful life periods are as follows.

Description	Estimated useful life period
Laboratory, teaching equipments	5 Years
Motor vehicles	5 Years
Library Books and Periodicals	5 Years
Telephone	10 Years
Other Equipments	5 Years
Building	20 Years
Sport Goods	5 Years

#### **f) Land**

The ownership of the Lands of the PGIS 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 if Peradeniya (PGIS ordinance No 01 of 1996 dated 12<sup>th</sup> February 1996)

#### **1.2.2 Inventories**

Inventories are stated at the lower of cost and net realizable value. The 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.

#### **1.2.3 Intangible Asset**

Intangible assets are 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 PGIS. The cost of the Blue lotus 360 (upgraded version ) Accounting software has been amortized over 5 years period commencing from year 2019. Amortization of payroll system and the pixdamapper Educational classroom software has been commenced from 2021 for five years in line with the Sri lanka Public Sector Accounting standard 19 ( Intangible Assets )

#### **1.2.4 Receivables**

Receivables are stated at the amounts they are estimated to be realized.

#### **1.2.5 Cash & cash equivalents**

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

The receipts & payments of the foreign currency of the RFC 2233593US\$ account, maintaining at the Bank of Ceylon, Peradeniya 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.

#### **1.2.6 Financial Misappropriation amount of Rs 50,338,160.18**

As per the special investigation audit report issued by Auditor General Department on 26/07/2018, the Auditor General Department has 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 it was identified that interest income of Rs 24,346,723 has also been lost due to fraudulently withdrawn fixed deposit by Mr. W.M.M.S.M Iddawala from 14/03/2008 to 30/11/2017.

Criminal case is going on at Kandy Magistrate court under the case No MC/B/43167/17. Attorney General department has lodged a civil case (No DC/1196/20) against Mr W.M.M.S.M Iddawala to recover the losses. Lawyers are in the view that there is a high possibility of recovering the financial losses. Therefore financial misappropriation amount of Rs 50,338,160 is categorized under noncurrent assets.

### **1.3. Liabilities & Provisions**

All known liabilities as at the balance sheet date are included in the financial statements and adequate provisions has been made for liabilities which time and the amounts are uncertain . Liabilities payable after one year from the balance sheet date are treated as noncurrent liabilities in the statement of financial position.

Provisions has been made in the financial statements for 2021 for all unclaimed lecture fees, based on the respective budget allocation assuming that all the academic activities of postgraduate programmes commenced in year 2020 has been completed by 31/12/2021 and postgraduate programmes commenced in year 2021 will be completed within a year from commencement date.

#### **1.3.1 Provision for Gratuity**

The provision for gratuity as at 31/12/2021 has been calculated by using Actuarial Valuation method prescribed under Sri Lanka public sector Accounting Standard 19 (Employee Benefits). Disclosures are made in the accounts in line with the requirements of the standard.

#### **1.3.2 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 statues and legislation in Sri Lanka and University Act. Also the university contributes 8% to the University Pension Fund in respect of pensionable employees.

#### **1.3.3 Employees' Trust Fund (ETF)**

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

#### **1.3.4 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 cost of assets are 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. (LKAS 20). The PGIS adopt income approach of the standard when identifying capital grants.

#### **1.3.5 Research and Scholarships fund & Work shop & event fund**

Research and development fund has been established by transferring the old research balances , and work shop and event fund has been established by transferring old unclaimed workshops balances with the approval of the finance committee and the Board of Management in 2018.

## 1.4 Income Statement

### 1.4.1 Revenue Recognition

#### a) Interest Income

Interest income is recognized on accrual basis.

#### b) Programme fees income

Programme fees income is identified under accrual accounting principle. Accordingly programme fees which applicable to the current period are only identified as programme fees income for the period. Adjustments were made in the accounts for unpaid programme fees (Receivables) and the excess course fees paid (Differed income) for the year ending 31/12/2021.

#### C. Recurrent Grants

Revenue from recurrent grants is recognized in the period in which grant is received.

#### d Research Grants Income & expenditure

The amount equal to recurrent research expenses has been identified as research grant income for the year.

#### e. Other Income

Other incomes are recognized on accrual basis.

#### f. Government Grants

Grants received from General Treasury of Sri Lanka 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 assets are 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.28,000,000.00. This used as follows

Government Grant for Recurrent Expenditure	24,000,000.00
Capital grant for Acquisition of fixed assets	2,000,000.00
Capital grants for rehabilitation of fixed assets	2,000,000.00
<b>Total</b>	<b>28,000,000.00</b>

**g. Income from workshops, short courses, seminars etc**

The administrative income from workshop, Short courses and seminars are disclosed under the miscellaneous income.

**1.4.2 Expenditure**

Expenditure has been recognized on accrual basis and charged to the revenue in ascertaining the income over expenditure.

**2.0 Comparative Information**

Comparatives have been restated in the financial statements where necessary in line with the requirements of Sri Lanka public Sector Accounting Standards.

**3.0 Cash Flow Statement**

The cash flow statement has been prepared using indirect method in line with the Sri Lanka public sector Accounting Standards 2 (SLPSAS 2 )

**4.0 Correction of Accounting errors**

Overstatement of programme fees amount of Rs 11,223,850 in 2020 (comparative year ) has been rectified in line with the Sri Lanka public sector Accounting standards 03 ( Accounting policies, accounting estimation and correction of accounting errors )

		2021	2020
		Rs	Rs
<b><u>Cash &amp; cash equivalents</u></b>	<b>Note</b>		
	<b>1</b>		
Cash at bank 0001273990		885,422	433,796
Cash at bank 0001274002		517,124	1,349,801
Cash at bank 057100191338034		567,726	533,217
Cash at Bank A/C 81041788		1,811,805	4,365,346
US \$ Saving A/C 2233593		21,602,693	12,251,518
Saving A/C		16,604,995	12,647,601
		<b>41,989,765</b>	<b>31,581,279</b>
	<b>2</b>		
<b><u>Investments</u></b>			
Fixed deposits at BOC		46,614,896	60,412,424
Fixed deposits at NSB		119,460,674	51,349,100
Fixed deposit US \$ at BOC		191,648,332	172,478,986
Fixed deposits at People's Bank		29,433,030	27,798,101
Fixed deposits at State Mortgage Bank		79,422,758	117,829,454
		<b>466,579,690</b>	<b>429,868,066</b>
	<b>3</b>		
<b><u>Receivables &amp; Deposit</u></b>			
Receivable-Programme fee		30,140,292	27,210,750
Accrued Interest		9,659,074	10,011,781
Vehicle hiring charges		11,501	-
Prepayments		564,489	96,904
Receivable deposit		2,500	60,000
Sundry debtors		66,213	66,213
Deposits for services		100,000	100,000
		<b>40,544,068</b>	<b>37,545,648</b>

	Note	2021 Rs	2020 Rs
<b><u>Loans &amp; advances to staff</u></b>			
	4		
	Current	Non Current	Total
Distress loan	891,384	2,424,407	3,315,791
Computer loan	66,000	114,500	180,500
Vehicle loan	142,558	292,041	434,599
Staff loan	14,280	24,820	39,100
Special Advance			1,600
Festival Advance			4,000
	<b>1,114,222</b>	<b>2,855,768</b>	<b>3,969,990</b>
			<b>4,274,514</b>
<b><u>Inventories / Stock</u></b>			
	5		
Stationary			1,482,573
Chemical stock			1,487,359
			<b>2,969,933</b>
			<b>2,566,033</b>
<b><u>Intangible Assets</u></b>			
	6		
<b>Computer Software</b>			
<b>Cost:</b>			
Opening Balance			354,000
Additions			1,358,522
Balance as at end of			<b>1,712,522</b>
<b>Accumulated Amortization</b>			
Opening Balance			120,249
Amortization Charge			152,033
Balance as at end of			<b>272,281</b>
<b>Net Book Value</b>			<b>1,440,241</b>
			<b>233,751</b>

Property, plant & Equipment

	Building	Telephone	Laboratory & Teaching Equip.	Library Books	Motor Vehicle	Computer Equip.
<b>Cost</b>						
Opening Balance as at 1st January 2021	178,673,585	528,000	178,778,593	9,959,396	16,320,091	2,100,000
Adjustments/Disposals						
During the year Additions	4,062,595		8,215,136		-	
<b>Closing Balance as at 31st Dec. 2021</b>	<b>182,736,180</b>	<b>528,000</b>	<b>186,993,729</b>	<b>9,959,396</b>	<b>16,320,091</b>	<b>2,100,000</b>
<b>Less Depreciation</b>						
Opening balance as at 1st January 2021	42,848,612	466,624	101,176,571	9,348,949	16,302,654	1,100,000
Adjustments/Disposals						
During the year Additions	9,258,004	52,800	26,061,056	196,106	13,628	
<b>Accumulated depreciation as at 31st December 2021</b>	<b>52,106,616</b>	<b>519,424</b>	<b>127,237,627</b>	<b>9,545,055</b>	<b>16,316,283</b>	<b>1,100,000</b>
<b>Net Book Value as at 31st December 2021</b>	<b>130,629,564</b>	<b>8,576</b>	<b>59,756,102</b>	<b>414,341</b>	<b>3,808</b>	<b>1,000,000</b>

	Notes	2021 Rs.	2020 Rs.
<b><u>Accrued expenses</u></b>	8		
Accrued expenses - Recurrent		3,477,470	8,350,767
		<u>3,477,470</u>	<u>8,350,767</u>
<b><u>Payables</u></b>	9		
Stamp duty payables		17,950	15,775
Paye tax payables		204,551	55,415
Book sale commission payable		-	10,623
Other Payable-Board of Study	9.1	1,595,926	1,482,264
Other Payable-Short Course & Workshop	9.2	11,948,154	7,738,301
Security Bond		14,977	13,804
Retention		1,479,843	3,095,430
		<u>15,261,400</u>	<u>12,411,610</u>
<b><u>Other Payable-Board of Study</u></b>	9.1		
Board of study in Chemical Sciences		20,300	8,100
Board of study in Earth Sciences		1,290,836	1,226,836
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		4,346	4,346
Board of study in Science Education		76,362	76,362
Board of study in Statistics Computer Science		138,755	101,293
Board of study in Zoological Sciences		51,962	51,962
		<u>1,595,926</u>	<u>1,482,264</u>

	Notes	2021	2020
	9.2	Rs.	Rs.
<b>Other Payable-Short Course , Workshop &amp; Other</b>			
Advance Certificate Course in Org.Chemistry		585,122	232,472
04 W/S on Scientific Data Management		-	36,715
23 <sup>rd</sup> Advance S/C on GIS application		756	208,756
72 <sup>nd</sup> S/C on GIS application		106,794	561,097
24 <sup>th</sup> Advance S/C on GIS		692,830	993,097
W/S on effecet of climate change on Biodiversity		4,724	4,724
25 <sup>th</sup> Advance S/C on GIS		11,530	73,930
S/C on R & R Studio		-	10,463
73 <sup>rd</sup> S/C on GIS Application		50,954	73,344
76 <sup>th</sup> S/C on GIS Application		791	51,002
77 S/C on GIS & Application		12,604	12,604
S/C on ICTA		2,237,004	2,437,004
Tailor-Made S/C on GIS		150,000	150,000
78 <sup>th</sup> S/C Gis and Application		-	14,074
26 <sup>th</sup> advance S/C on GIS		-	181,597
DMC Training Programme		570,450	570,450
79 <sup>th</sup> S/C on GIS Application		47,118	47,118
80 <sup>th</sup> S/C on GIS Application		-	179,178
W/S on Air Quality Awareness & Mgt		-	2,037
ICMME-Conference		-	61,371
108 <sup>th</sup> S/C on GIS & Application		-	37,925
109 <sup>th</sup> S/C on GIS & Application		-	175,000
111 <sup>th</sup> S/C on GIS & Application		20,591	20,591
112 <sup>th</sup> S/C on GIS & Application		401,362	401,362
114 <sup>th</sup> S/C on GIS & Application		26,717	26,717
115 <sup>th</sup> S/C on GIS & Application		-	71,565
ICEMS-2020		73,738	73,738
S/C on Application GIS for Servey		35,000	35,000
Curriculum Dev.In Data Science		6,125,238	650,247
Bio Film & Bio Fertilizer		-	1,000
W/S on Report Writing		-	24,987
W/S on Scientific Writing		-	1,000
117 <sup>th</sup> S/C on GIS & Application		-	9,669
118 <sup>th</sup> S/C on GIS & Application		-	161,569
119 <sup>th</sup> S/C on GIS & Application		-	87,507
121 <sup>st</sup> S/C on GIS & Application		82,357	37,557
122 <sup>nd</sup> S/C on GIS & Application		9,864	17,980
Conference on EMM-2020		-	3,000
W/S on Patent Prior Art S & D		-	855
Atlas Water Bottled Project		45,000	-
E-Workshop on Application of Molecular		62,140	-
ICMME-2021		113,837	-
Traininig Programme on Digital Case Mgt		58,200	-
W/S on Career Guidance - 2021		24,987	-
W/S on Current Status & Future Prospects of		83,000	-
W/S on Value Added Product		127,875	-
125 <sup>th</sup> S/C on GIS & Its Application		187,570	-
		<b>11,948,154</b>	<b>7,738,301</b>

			2021	2020
		Notes	Rs.	Rs.
		10		
<u>Deposits</u>	Current	Non current	Total	
Library deposits	5,610,614	1,632,000	7,242,614	7,246,614
Science deposits	4,370,858	1,444,500	5,815,358	5,776,358
Other deposits	250,207	-	250,207	78,464
Refundable deposit		-	-	2,130
	<u>10,231,679</u>	<u>3,076,500</u>	<u>13,308,179</u>	<u>13,103,566</u>
<b>Provisions</b>		<b>11</b>		
Provision for Audit fees			840,000	1,260,000
Provision for lecturer fees			19,641,804	7,627,549
Provision for Security Service			130,221	-
Provision for Cleaning Service			127,890	-
			<u>20,739,916</u>	<u>8,887,549</u>
<b>Retiring Gratiuty</b>		<b>12</b>		
Balance as at 1st January			9,355,471	9,006,825
Charge for the Year		<b>12.1</b>	558,963	1,857,790
			<u>9,914,434</u>	<u>10,864,615</u>
Payments made during the year			(1,091,308)	(1,509,144)
Balance as at end of December			<u>8,823,126</u>	<u>9,355,471</u>
<b>Charge for the Year</b>		<b>12.1</b>		
Interest Cost			748,438	945,717
Current Service Cost			570,089	606,267
Net Actuarial (Gain)/Loss recognised immediately			(759,563)	305,806
Expenses recognized in the Income Statetment			<u>558,963</u>	<u>1,857,790</u>
<b>Funds</b>		<b>13</b>		
Scholarship Fund-Amarasinghe			1,345,354	1,291,877
Research & Scholarship Funds			2,083,789	7,771,002
Workshop & Event Fund			2,084,975	2,367,305
			<u>5,514,118</u>	<u>11,430,184</u>

Restricted Funds			2021	2020
G. No.	Grantee Name	Grant Name	Rs	Rs
			14	
6142	Ms. Tilini Tilipan	HETC Project	-	144,496
6225	Prof.H.M.D.N.Priyantha	Collaborative Research	215,755	215,755
6230	Prof. I A U N Gunatilleke	Spatiodiversity	-	97,569
6242	Prof.H.M.T.G.A.Pitawela	Value Addition to SL Laterites	67,250	81,250
6250	Prof. Rohana Chandrajith	Swedish Research Link	-	39
6259	Prof. H A H Jayasena	Indo-Lanka Joint Research Project	-	10,662
6263	Prof. J.G.S. Ranasinghe	Consultancy Project-(RRDI)	-	92,387
6265	Prof.A.Wickramasinghe	RG/2016/BS/02	-	602,913
6267	Dr.C.V.Hettiarachchi	RG/2016/BS/05	-	95,522
6270	Dr.S.C.K.Rubasinghe	Biodiversity Secretariat Grant	47,055	121,575
6271	Dr.K.M.G.G.Jayasooriya	Biodiversity Secretariat Grant	-	5,465
6273	Prof.Rohana Chandrajith	RPHS/2016/CKDu/06	-	174,502
6274	Dr.M.C.S Perera	NSF/PDRS/2017/01	-	387,451
6275	Prof.R.M.G.Rajapakse	RG/2017BS/03	346,695	507,736
6278	Dr.Nanda Gunawardena	NSF/PSF/ICRP/2017/EA & ICT/03	-	51,294
6279	Prof.H.M.S.P.Madawala	Biodiversity Secretariat Grant	73,823	88,533
6280	Dr.C.L.Vithana	NSF/PDRS/2018/01	-	72,445
6281	Ms.P.M.Weeraratne	NSF/NCH/2018/11	640,858	304,965
6282	Prof.A.Pitawala	NRC Grant AB 19-004	766,540	1,260,002
6283	Ms M G K Kapukotuwa	NSF/SCH/2019/04	429,767	365,005
6284	Dr K G N Nanayakkara	IFS Sweden Grant	949,784	1,785,932
6286	Dr K B S N Jinadasa	LEF Project for Kurunegala Lake	1,914,507	1,903,035
6287	Dr NPS Kumburegama	03/05/BD/19/011/2019-06	153,621	105,431
6288	Ms.M.M.K Galabadage	NSF/SCH/2019/09	514,321	844,414
6289	Prof.R.M.G.Rajapakse	TG/2020/Covid/HS-01	124,814	44,885
6290	Prof.R S Rajakaruna	BCG Conservation Grant	50,238	119,820
6291	Dr.G.P.G.Manthilake	Lankan Zirocon Grant	106,250	106,250
6292	Prof: D Yakandawala	AustriaP 33148 B	198,025	-
6293	Dr.T.M.W.J Bandara	PGIS/2020/05	222,800	-
6294	Dr.H.A.C.K.Ariyaratne	PGIS/2020/23	260,000	-
6295	Dr.B.M.K.Pemasiri	PGIS/2020/10	495,000	-
6296	DR T.H.K.R. De Silva	PGIS/2020/04	464,100	-
6297	DR.W.R.P.Wijesinghe	PGIS/2020/17	434,736	-
6298	Prof.U.A.J.Pinidiyaarchchi	PGIS/2020/06	482,000	-
6299	Dr.N.W.B.Balasuriya	PGIS/2020/18	444,900	-
6300	Dr.T.C Weerathne	PGIS/2020/12	495,750	-
6301	Prof.D.M.D.Yakandawala	PGIS/2020/21	459,691	-
6302	Dr P.L Dharmapriya	PGIS/2020/03	349,750	-
6303	Prof.W.B.Daundasekara	PGIS/2020/24	410,000	-
6304	Prof.K.B.Ranawana	PGIS/2020/22	325,400	-
6305	Prof..K.M.G.G.Jayasuriya	Madugaga Ramzar	143,873	-
			<b>11,587,303</b>	<b>9,589,332</b>

	Notes	2021 Rs.	2020 Rs.
<b>Miscellaneous Income</b>	<b>15</b>		
Printing Income		61,999	139,902
Administration Charges		430,652	1,513,792
Certificate Fee		112,420	93,460
Application Processing Fee		1,302,500	1,852,750
XRD Analysis Income		422,500	537,250
Other Income		111,127	786,972
		<b>2,441,197</b>	<b>4,924,126</b>
<b>Interest Income</b>	<b>16</b>		
Fixed Deposit Interest		25,394,959	29,100,900
RFC Interest		373,343	300,744
Staff Loan Interest		163,391	165,108
Savings Interest		487,323	150,419
		<b>26,419,015</b>	<b>29,717,172</b>
<b>Amortization of Capital Grant</b>	<b>17</b>		
Building		5,130,664	4,970,103
Lab & Teaching Equipment		8,764,787	10,408,203
Library Books		196,106	193,516
Office Equipments		2,920,276	2,734,081
		<b>17,011,834</b>	<b>18,305,903</b>
<b>General Administration and Staff Services</b>			
<b>Personal Emoluments</b>			
<b>Personal Emoluments (Academic)</b>	<b>18</b>		
Salaries and Wages		4,425,094	4,392,150
University Provident Fund		1,151,422	1,137,325
Pension Fund		314,757	366,482
Employee Trust Fund		293,236	300,762
Academic Allowance		5,010,419	5,346,898
Other Allowances		295,983	211,745
Additional Allowance - 20%		639,351	684,390
Gratuity		129,988	919,648
Cost of Living		339,015	286,335
Research Allowance		1,118,864	1,197,682
Visiting Lecture Fees		25,557,993	10,504,561
		<b>39,276,122</b>	<b>25,347,979</b>
<b>Personal Emoluments (Non academic)</b>	<b>18</b>		
Salaries and Wages		13,211,208	13,566,459
University Provident Fund		1,626,403	1,759,441
Pension Fund		1,603,113	1,484,400
Employee Trust Fund		645,903	648,768
Overtime		1,042,844	1,412,691
Holiday Payments		175,858	265,536
Other Allowances		199,400	35,400
Monthly Compensation Allowance - MCA		5,945,383	5,608,559
Gratuity		428,975	938,142
Research Allowance		391,230	399,303
Additional Allowance - 20%		2,642,392	2,492,693
Cost of Living		2,372,760	2,451,016
Staff Benefits		131,542	138,541
		<b>30,417,011</b>	<b>31,200,950</b>
<b>Personal Emoluments (Casual)</b>	<b>18</b>		
Casual Wages		383,000	397,000
		<b>383,000</b>	<b>397,000</b>

	Notes	2021 Rs.	2020 Rs.
<b>Travelling and Subsistence</b>	<b>19</b>		
Travelling Expenses (Domestic)		131,585	335,489
		<u>131,585</u>	<u>335,489</u>
<b>Supplies</b>	<b>20</b>		
Stationery & Office Requisites		1,421,879	1,457,501
Fuel & Lubricant		489,996	404,630
Uniform & Tailoring		1,500	21,061
Mechanical & Electrical		238,861	1,836,230
Chemicals & Glassware		934,598	1,142,572
		<u>3,086,834</u>	<u>4,861,994</u>
<b>Maintenance</b>	<b>21</b>		
Vehicles		1,246,572	680,749
Plant, Machinery & Equipments		2,207,391	704,244
Building & Structure		117,880	327,915
		<u>3,571,843</u>	<u>1,712,909</u>
<b>Contractual Services</b>	<b>22</b>		
Telecommunications		2,961,147	2,363,500
Postal Charges		207,975	314,728
Electricity		1,179,991	1,164,939
Security Services		1,397,909	1,465,895
Water Charges		44,946	39,762
Cleaning Services		1,360,472	1,478,263
		<u>7,152,439</u>	<u>6,827,087</u>
<b>Other Recurrent Expenditure</b>	<b>23</b>		
Printing and Advertising		1,282,712	761,002
Audit Fee		420,000	81,210
Special Services Council & Commit.		1,299,636	935,885
Special Services Professional & Other		36,000	104,004
Workshops & Seminars		288,020	400,922
Staff Development		-	39,945
Holiday Warrant		86,400	4,850
Bank Charges		351,688	189,914
Awards & Indemnities		-	25,000
Examination Expenses		1,919,757	3,028,443
Other expenses		192,945	589,833
Staff Welfare		94,893	120,000
Legal & Documentation charges		779,570	433,913
PGIS Research Congress		839,338	1,304,208
Stamp Duty expense		28,800	24,100
Intangible Asset Amortize expenses		152,033	61,300
University Insurance Scheme		128,400	46,200
Research Grant Expenditure		12,115,904	10,786,604
		<u>20,016,096</u>	<u>18,937,333</u>
<b>Depreciation</b>	<b>24</b>		
Building		9,258,004	8,931,835
Telephone		52,800	52,800
Lab & Teaching Equipments		26,061,056	25,610,138
Books and Periodicals		196,106	246,994
Office Equipment		4,010,870	3,529,455
Motor Vehicles		13,628	206,795
Sports Goods		9,294	7,817
		<u>39,601,759</u>	<u>38,585,834</u>
		<u>143,636,689</u>	<u>128,206,573</u>

## POSTGRADUATE INSTITUTE OF SCIENCE

## TRIAL BALANCE AS AT DECEMBER 2021

CODE	ACCOUNT NAME	DR	CR
00001	CASH BOOK A/C 0001273990	885,422	
00002	CASH BOOK A/C 0001274002	517,124	
00003	CASH BOOK A/C 057100191338034	567,726	
00007	CASH BOOK A/C NO 81041788	1,811,805	
3100	RECEIVABLE VEHICLE HIRING CHARGES	11,501	
05000	US \$ SAVING A/C	21,602,693	
10320	SAVING-BOC NO: 84023069	15,929,331	
10310	SAVING-P.AMARASINGHE SCH.FUND	675,664	
03000	ACCRUDE INCOME	9,659,074	
3200	RECEIVABLE-PROGRAMME FEE	30,140,292	
01001	SUNDRY DEBTORS	66,213	
01004	STOCK AS AT 31ST DECEMBER	2,969,933	
01006	PREPAYMENTS	564,489	
01009	RECEIVABLE-DEPOSIT	2,500	
02000	DISTRESS LOAN	3,315,791	
02002	COMPUTER LOAN	180,500	
02003	STAFF LOAN	39,100	
02004	VEHICLE LOAN	434,599	
04000	DEPOSIT FOR SERVICES- FUEL	100,000	
10000	BUILDING	182,736,180	
10002	TELEPHONE	528,000	
10003	LAB & TEACHING EQUIPMENTS	186,993,729	
10004	LIBRARY BOOKS	9,959,396	
10005	MOTOR VEHICLES	16,320,091	
10006	OFFICE FURNITURE EQUIPMENTS	36,302,044	
10040	SOFTWARE	1,712,522	
01011	SPORTS GOODS	46,470	
10100	FIXED DEPOSIT - BOC	46,614,896	
10200	FIXED DEPOSITS - PEOPLES BANK	29,433,030	
10110	FIXED DEPOSIT - BOC - RFC	191,648,332	
10500	FIXED DEPOSIT- NSB	119,460,674	
10700	STATE MORTGAGE & INVESTMENT BANK	79,422,758	
10095	FINANCIAL MISAPPROPRIATION A/C	50,338,160	
60000	GOVERNMENT GRANT FOR RECCURANT		24,000,000
70010	EXAMINATION FEES		1,479,400
70020	TUTION FEES		89,052,322
70025	M.PHIL & PH.D TUTION FEE		940,650
70030	REGISTRATION FEE		3,436,857
70061	EXCHANGE GAIN /LOSS		12,128,771
70070	MISCELLANEOUS INCOME		111,127
70071	PRINTING INCOME		61,999
70072	ADMINISTRATION CHARGES		430,652
70073	CERTIFICATE FEE		112,420
70075	APPLICATION PROCESSING FEE		1,302,500
70076	RESCON INCOME		340,159
70077	XRD ANALYSIS INCOME		422,500
70090	MEDICAL FEE		51,450
70190	SERVICES & FACILITIES FEE		113,000

CODE	ACCOUNT NAME	DR	CR
70200	VEHICLE HIRING CHARGES		15,835
70250	LIBRARY TICKET		469,500
75000	INTEREST FROM SAVING A/C		487,323
75005	INTEREST ON RFC		373,343
75010	INTEREST INCOME FROM LOANS & ADVANCES		163,391
75060	INTEREST INCOME ON FD		25,394,959
75064	SUPERVISION FEE		1,062,500
75100	BENCH FEE		1,433,750
75103	REASEARCH GRANTS INCOME		12,115,904
75102	AMORTIZED INCOME		17,011,834
20000	GENERAL RESERVES		553,855,487
20500	RESEARCH & SCHOLARSHIP FUNDS		2,083,789
20600	WORKSHOPS & SHORT COURSE FUND		2,084,975
21000	CAPITAL GRANT - SPENT		108,331,879
21500	REVALUATION RESERVE		13,311,327
35720	PROVISION FOR GRATUITY		8,823,126
35000	PROVISION FOR DEPRECIATION - BUILDING		52,106,616
35200	PROVISION FOR DEPRECIATION - LAB TEACHING EQUIPMENT		127,237,627
35300	PROVISION FOR DEPRECIATION - LIBRARY BOOKS		9,545,055
35500	PROVISION FOR DEPRECIATION - OFFICE EQUIPMENT		19,751,897
35600	PROVISION FOR DEPRECIATION - TELEPHONE		519,424
35400	PROVISION FOR DEPRECIATION - MOTOR VEHICLES		16,316,283
35650	PROVISION FOR DEPRECIATION-SOFTWARE		272,281
35700	PROVISION FOR AUDIT FEES		840,000
35652	PROVISION FOR DEPRECIATION-SPORT GOODS		17,111
35760	PROVISION FOR LECTURE FEE		19,641,804
35780	PROVISION FOR CLEANING SERVICE		127,890
35740	PROVISION FOR SECURITY SERVICE		130,221
23020	BOARDS OF STUDY CHEMICAL SCIENCE		20,300
23030	BOARDS OF STUDY EARTH SCIENCE		1,290,836
23040	BOARDS OF STUDY ENVIRONMENTAL SCIENCE		1,625
23060	BOARDS OF STUDY PHYSICS		11,740
23070	BOARDS OF STUDY PLANT SCIENCE		4,346
23080	BOARDS OF STUDY SCIENCE EDUCATION		76,362
23090	BOARDS OF STUDY COMPUTER SCIENCE		138,755
23100	BOARDS OF STUDY ZOOLOGICAL SCIENCE		51,962
23110	5% RETENTION ON CAPITAL WORKS		1,479,843
23200	DIFFERED INCOME		12,138,084
30004	LIBRARY DEPOSIT		7,242,614
30005	SCIENCE DEPOSIT		5,815,358
30100	DEPOSITS		250,207
30200	SECURITY BOND		14,977
30300	ACCRUED EXPENDITURE		3,477,470
31520	PGT. CERTIFICATE COURSE IN AD.ORG.CHEMISTRY		585,122
31950	STAMP DUTY		17,950
31954	PAYE TAX		204,551
32082	PROF.P AMARASINGHE SCHOLARSHIP FUND		1,345,354
32087	23 ADV. S/C ON GIS & APPLICATION		756
32091	72 S/C ON GIS & APPLICATION		106,794
32096	24TH ADVANCE S/C ON GIS & APPLICATION		692,830
32098	W/S ON EFFECT OF CLIMATE CHANGE ON BIODIVERSITY		4,724

CODE	ACCOUNT NAME	DR	CR
32099	25TH ADVANCE S/C ON GIS & APPLICATION		11,530
32100	73RD S/C ON GIS & APPLICATION		50,954
32101	76TH S/C ON GIS & APPLICATION		791
32102	77 S/C ON GIS & APPLICATION		12,604
32103	S/C ON ICTA		2,237,004
32104	TAILOR-MADE S/C ON GIS		150,000
32108	DMC TRAINING PROGRAMME		570,450
32109	79TH S/C ON GIS & APPLICATION		47,118
32115	S/C ON APPLICATION OF GIS FOR SURVEYORS		35,000
6285	CURRICULUM DEV. IN DATA SCIENCE-PROF.PUSHPA & IMALKA		6,125,238
32118	111TH S/C ON GIS & APPLICATION		20,591
32119	112TH S/C ON GIS & APPLICATION		401,362
32120	ICEMS-2020		73,738
32125	114TH W/S ON GIS & APPLICATION		26,717
32134	121ST S/C ON GIS & APPLICATION		82,357
32137	122ND S/C ON GIS & APPLICATION		9,864
32138	TRAINING PROGRAMME ON DIGITAL CASE Mgt. SYSTEM		58,200
32139	ATLAS WATER BOTTLE PROJECT		45,000
32140	W/S ON CURRENT STATUS & FUTURE PROSPECTS OF P/I IN SL		83,000
32142	W/S ON VALUE ADDED PRODUCT		127,875
32144	125TH S/C ON GIS & ITS APPLICATION		187,570
32145	E-WORKSHOP ON APPLICATION OF MOLECULAR TECH.		62,140
32146	W/S ON CAREER GUIDANCE - 2021		24,987
32147	ICMME-2021		113,837
80501	TRAVELLING EXPENSES (DOMESTIC)	131,585	
80601	STATIONARY & OFFICE REQUISITES	1,421,879	
80602	FUELL & LUBRICANT	489,996	
80603	UNIFORM & TAILORING	1,500	
80604	MECHANICAL & ELECTRICAL GOODS	238,861	
80605	CHEMICAL & GLASSWARE	934,598	
80701	VEHICLES	1,246,572	
80702	PLANT , MACHENARY & EQUIPMENT	2,207,391	
80703	BUILDING & STRUCTURES	117,880	
80802	TELECOMMUNICATION	2,961,147	
80803	POSTAL CHARGES	207,975	
80804	ELECTRICITY	1,179,991	
80805	SECURITY SERVICES	1,397,909	
80806	WATER CHARGES	44,946	
80807	CLEANING SERVICES	1,360,472	
80810	PRINTING & ADVERTISING	1,282,712	
80811	AUDIT FEES	420,000	
80812	LEAGAL & DOCUMENTATION CHARGES	779,570	
80902	SPECIAL SERVICES COUNCIL & COMMITIES	1,299,636	
80903	SPECIAL SERVICES - PROFESSIONAL & OTHER FEES	36,000	
80904	WORKSHOP & SEMINARS	288,020	
80908	HOLIDAY WARRENT & SEASON TICKETS	86,400	
80910	BANK CHARGES	351,688	
80914	EXAMINATION EXPENSES	1,919,757	
80915	OTHER EXPENSES	192,945	
80916	VISITING LECTURE FEES	25,557,993	
80926	PGIS INSURENCE SCHEME	128,400	

CODE	ACCOUNT NAME	DR	CR
80930	STAFF WELFARE	94,893	
80935	PGIS RESEARCH CONGRESS	839,338	
84101	ACA-SALARIES & WAGES	4,425,094	
84102	ACA-U .P .F	1,151,422	
84103	ACA-PENSION	314,757	
84104	ACA-E. T. F	293,236	
84108	ACA-ACADEMIC ALLOWANCES	5,010,419	
84110	ACA-OTHER ALLOWANCE	295,983	
84112	ACA-ADDITIONAL ALL. 20%	639,351	
84114	ACA-GRATUITY	129,988	
84120	ACA-COL	339,015	
84121	ACA-RESEARCH ALLOWANCE 25%	1,118,864	
84201	NON-ACA-SALARIES	13,211,208	
84202	NON-ACA- U P F	1,626,403	
84203	NON-ACA PENTION	1,603,113	
84204	NON-ACA- E.T.F	645,903	
84208	NON- OVER TIME	1,042,844	
84209	NON-HOLIDAY PAYMENTS	175,858	
84210	NON- OTHER ALLOWANCE	199,400	
84212	NON-ACA-MCA.20%	5,945,383	
84214	GRATUITY	428,975	
84216	NON ACA. RESEARCH ALL. 25%	391,230	
84217	NON-ADDITIONAL ALLOWANCE	2,642,392	
84220	NON-COL	2,372,760	
84221	NON-STAFF BENIFIT	131,542	
84249	CASUAL VAGES	383,000	
90275	STAMP DUTY EXPENSE	28,800	
80941	RESEARCH GRANTS EXPENDITURE	12,115,904	
80950	DEPRECIATION - BUILDING	9,258,004	
80951	DEPRECIATION - TELEPHONE	52,800	
80953	DEPRECIATION - LAB & TEACHING EQUIPMENTS	26,061,056	
80954	DEPRECIATION - LIBRARY BOOKS	196,106	
80955	DEPRECIATION - OFFICE EQUIPMENTS	4,010,870	
80956	DEPRECIATION - MOTOR VEHICLE	13,628	
80957	DEPRECIATION-SOFTWARE	152,033	
80958	DEPRECIATION-SPORT GOODS	9,294	
GRANT	GRANT		11,587,303
		<b>1,184,626,727</b>	<b>1,184,626,727</b>

REPORT OF  
THE AUDITOR  
GENERAL



# ජාතික විගණන කාර්යාලය

## தேசிய கணக்காய்வு அலுவலகம்

### NATIONAL AUDIT OFFICE



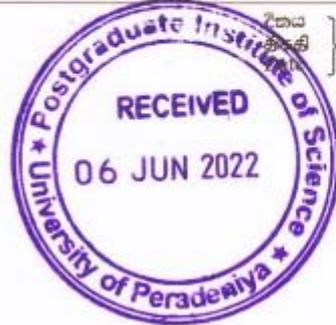
මගේ අංකය  
எனது இல.  
My No.

කේටීඑ/ඩී/පීඒඅයිඑස්/2022/08

ඔබේ අංකය  
உமது இல.  
Your No.

ඔබේ අංකය

2022 මැයි 31 දින.



අධ්‍යක්ෂ  
විද්‍යා පශ්චාත් උපාධි ආයතනය

විද්‍යා පශ්චාත් උපාධි ආයතනයේ 2021 දෙසැම්බර් 31 දිනෙන් අවසන් වර්ෂය සඳහා වූ මූල්‍ය ප්‍රකාශන සහ වෙනත් කෙතෙකින හා නියමිත අවශ්‍යතා පිළිබඳව 2018 අංක 19 දරන ජාතික විගණන පනතේ 12 වන වගන්තිය ප්‍රකාරව විගණකාධිපති වාර්තාව

යටේකින වාර්තාව මේ සමඟ එවා ඇත.

  
ඩබ්ලිව්.පී.සී. වික්‍රමරත්න  
විගණකාධිපති

- පිටපත් :-
01. ලේකම් - අධ්‍යාපන අමාත්‍යාංශය
  02. ලේකම් - මුදල් අමාත්‍යාංශය
  03. සභාපති - විශ්වවිද්‍යාල ප්‍රතිපාදන කොමිෂන් සභාව
  04. උපකුලපති - ජේරාදෙණිය විශ්වවිද්‍යාලය



# ජාතික විගණන කාර්යාලය

## தேசிய கணக்காய்வு அலுவலகம்

### NATIONAL AUDIT OFFICE



මගේ අංකය  
எனது இல.  
My No.

කේට්/ඩී/පීඅයිඑස්  
/2022/08

ඔබේ අංකය  
உமது இல.  
Your No.

දිනය  
திகதி  
Date

2022 මැයි 31 දින

අධ්‍යක්ෂ

විද්‍යා පශ්චාත් උපාධි ආයතනය

විද්‍යා පශ්චාත් උපාධි ආයතනයේ 2021 දෙසැම්බර් 31 දිනෙන් අවසන් වර්ෂය සඳහා වූ මූල්‍ය ප්‍රකාශන සහ වෙනත් තෛතික හා නියාමන අවශ්‍යතා පිළිබඳව 2018 අංක 19 දරන ජාතික විගණන පනතේ 12 වන වගන්තිය ප්‍රකාරව විගණකාධිපති වාර්තාව

#### 1. මූල්‍ය ප්‍රකාශන

##### 1.1 මතය

විද්‍යා පශ්චාත් උපාධි ආයතනයේ 2021 දෙසැම්බර් 31 දිනට මූල්‍ය තත්ත්ව ප්‍රකාශනය සහ එදිනෙන් අවසන් වර්ෂය සඳහා වූ මූල්‍ය කාර්යසාධන ප්‍රකාශනය, හිමිකම් වෙනස්වීමේ ප්‍රකාශනය සහ එදිනෙන් අවසන් වර්ෂය සඳහා මුදල් ප්‍රවාහ ප්‍රකාශනය සහ මූල්‍ය ප්‍රකාශන වලට අදාළ සටහන්, සාරාංශගත වැදගත් ගිණුම්කරණ ප්‍රතිපත්තිවලින් සමන්විත 2021 දෙසැම්බර් 31 දිනෙන් අවසන් වර්ෂය සඳහා වූ මූල්‍ය ප්‍රකාශන ශ්‍රී ලංකා ප්‍රජාතාන්ත්‍රික සමාජවාදී ජනරජයේ ආණ්ඩුක්‍රම ව්‍යවස්ථාවේ 154(1) ව්‍යවස්ථාව සමඟ සංයෝජිතව කියවිය යුතු 2018 අංක 19 දරන ජාතික විගණන පනතේ සහ 1971 අංක 38 දරන මුදල් පනතේ විධිවිධාන ප්‍රකාර මාගේ විධානය යටතේ විගණනය කරන ලදී. ආණ්ඩුක්‍රම ව්‍යවස්ථාවේ 154(6) ව්‍යවස්ථාව ප්‍රකාරව මාගේ වාර්තාව යථා කාලයේදී පාර්ලිමේන්තුවේ සභාගත කරනු ලැබේ.

ආයතනයේ 2021 දෙසැම්බර් 31 දිනට මූල්‍ය තත්ත්වය සහ එදිනෙන් අවසන් වර්ෂය සඳහා එහි මූල්‍ය ක්‍රියාකාරීත්වය හා මුදල් ප්‍රවාහ ශ්‍රී ලංකා රාජ්‍ය අංශයේ ගිණුම්කරණ ප්‍රමිතීන්ට අනුකූලව සත්‍ය හා සාධාරණ තත්ත්වයක් පිළිබිඹු කරන බව මා දරන්නා වූ මතය වේ.

##### 1.2 මතය සඳහා පදනම

ශ්‍රී ලංකා විගණන ප්‍රමිතීන්ට (ශ්‍රී.ලං.වි.ප්‍ර) අනුකූලව මා විගණනය සිදු කරන ලදී. මෙම විගණන ප්‍රමිතීන් යටතේ වූ මාගේ වගකීම, මෙම වාර්තාවේ මූල්‍ය ප්‍රකාශන විගණනය සම්බන්ධයෙන් විගණකගේ වගකීම යන කොටසේ තවදුරටත් විස්තර කර ඇත. මාගේ තත්ත්වවිගණනය කළ මතය සඳහා පදනමක් සැපයීම උදෙසා මා විසින් ලබාගෙන ඇති විගණන සාක්ෂි ප්‍රමාණවත් සහ උචිත බව මාගේ විශ්වාසයයි.



**1.3 ආයතනයේ 2021 වාර්ෂික වාර්තාවේ ඇතුළත් අනෙකුත් තොරතුරු**

මෙම විගණන වාර්තාවේ දිනට පසුව මට ලබාදීමට බලාපොරොත්තු වන විද්‍යා පශ්චාත් උපාධි ආයතනයේ 2021 වාර්ෂික වාර්තාවේ ඇතුළත් කර ඇති නමුත් මූල්‍ය ප්‍රකාශන සහ ඒ පිළිබඳව වූ මාගේ විගණන වාර්තාවේ ඇතුළත් නොවන තොරතුරු, අනෙකුත් තොරතුරු යන්නෙන් අදහස් වේ. මෙම අනෙකුත් තොරතුරු සඳහා කළමනාකරණය වගකිව යුතුය.

මූල්‍ය ප්‍රකාශන සම්බන්ධයෙන් වූ මාගේ මතයෙන් අනෙකුත් තොරතුරු ආවරණය නොකරන අතර මම ඒ පිළිබඳ කිසිදු ආකාරයක සහතිකවීමක් හෝ මතයක් ප්‍රකාශ නොකරමි.

මූල්‍ය ප්‍රකාශන පිළිබඳ මාගේ විගණනයට අදාළව, මාගේ වගකීම වන්නේ ඉහත හඳුනාගත් අනෙකුත් තොරතුරු ලබා ගත හැකි වූ විට කියවීම සහ එසේ කිරීමේදී අනෙකුත් තොරතුරු මූල්‍ය ප්‍රකාශන සමඟ හෝ විගණනයේදී හෝ වෙනත් ආකාරයකින් ලබාගත් මාගේ දැනුම අනුව ප්‍රමාණාත්මක වශයෙන් නොගැලපෙනවාද යන්න සලකා බැලීමයි.

විද්‍යා පශ්චාත් උපාධි ආයතනයේ 2021 වාර්ෂික වාර්තාව කියවන විට, එහි ප්‍රමාණාත්මක වරදවා දැක්වීම් ඇති බව මම නිගමනය කළහොත්, නිවැරදි කිරීම සඳහා පාලනය කරන පාර්ශවයන් වෙත එම කරුණු සන්නිවේදනය කළ යුතුය. තව දුරටත් නිවැරදි නොකළ වරදවා දැක්වීම් තිබේ නම්, ඒවා ආණ්ඩුක්‍රම ව්‍යවස්ථාවේ 154(6) ව්‍යවස්ථාව ප්‍රකාරව මා විසින් යථා කාලයේදී පාර්ලිමේන්තුවේ සභාගත කරනු ලබන වාර්තාවට ඇතුළත් කරනු ඇත.

**1.4 මූල්‍ය ප්‍රකාශන පිළිබඳ කළමනාකරණයේ සහ පාලනය කරන පාර්ශවයන්ගේ වගකීම්**

මෙම මූල්‍ය ප්‍රකාශන ශ්‍රී ලංකා රාජ්‍ය අංශයේ ගිණුම්කරණ ප්‍රමිතීන්ට අනුකූලව පිළියෙල කිරීම හා සාධාරණ ලෙස ඉදිරිපත් කිරීම සහ වංචා හෝ වැරදි හේතුවෙන් ඇතිවිය හැකි ප්‍රමාණාත්මක සාවද්‍ය ප්‍රකාශනයන්ගෙන් තොරව මූල්‍ය ප්‍රකාශන පිළියෙල කිරීමට හැකිවනු පිණිස අවශ්‍ය වන අභ්‍යන්තර පාලනයන් තීරණය කිරීම කළමනාකරණයේ වගකීම වේ.

මූල්‍ය ප්‍රකාශන පිළියෙල කිරීමේදී, ආයතනය අඛණ්ඩව පවත්වාගෙන යාමේ හැකියාව තීරණය කිරීම කළමනාකරණයේ වගකීමක් වන අතර, කළමනාකාරිත්වය ආයතනය ආවර කිරීමට අදහස් කරන්නේ නම් හෝ වෙනත් විකල්පයක් නොමැති විටදී මෙහෙයුම් නැවැත්වීමට කටයුතු කරන්නේ නම් හැර අඛණ්ඩ පැවැත්මේ පදනම මත ගිණුම් තැබීම හා ආයතනයේ අඛණ්ඩ පැවැත්මට අදාළ කරුණු අනාවරණය කිරීමද කළමනාකරණයේ වගකීමකි.

ආයතනයේ මූල්‍ය වාර්තාකරණ ක්‍රියාවලිය සම්බන්ධව පරීක්ෂා කිරීමේ වගකීම, පාලනය කරන පාර්ශවයන් විසින් දරනු ලබයි.

2018 අංක 19 දරන ජාතික විගණන පනතේ 16 (1) උප වගන්තිය ප්‍රකාරව, ආයතනයේ වාර්ෂික සහ කාලීන මූල්‍ය ප්‍රකාශන පිළියෙල කිරීමට හැකිවන පරිදි ස්වකීය ආදායම්, වියදම්, වත්කම් හා බැරකම් පිළිබඳ නිසි පරිදි පොත්පත් හා වාර්තා පවත්වාගෙන යා යුතුය.

1.5 මූල්‍ය ප්‍රකාශන විගණනය සම්බන්ධයෙන් විගණකගේ වගකීම

සමස්තයක් ලෙස මූල්‍ය ප්‍රකාශන, වංචා සහ වැරදි නිසා ඇතිවන ප්‍රමාණාත්මක සාවද්‍ය ප්‍රකාශනයන්ගෙන් තොර බවට සාධාරණ තහවුරුවක් ලබාදීම සහ මාගේ මතය ඇතුළත් විගණන වාර්තාව නිකුත් කිරීම මාගේ අරමුණ වේ. සාධාරණ සහතිකවීම උසස් මට්ටමේ සහතිකවීමක් වන නමුත්, ශ්‍රී ලංකා විගණන ප්‍රමිති ප්‍රකාරව විගණනය සිදු කිරීමේදී එය සැමවිටම ප්‍රමාණාත්මක සාවද්‍ය ප්‍රකාශනයන් අනාවරණය කරගන්නා බවට වන තහවුරු කිරීමක් නොවනු ඇත. වංචා සහ වැරදි තනි හෝ සාමූහික ලෙස බලපෑම නිසා ප්‍රමාණාත්මක සාවද්‍ය ප්‍රකාශනයන් ඇතිවිය හැකි අතර, එහි ප්‍රමාණාත්මකභාවය මෙම මූල්‍ය ප්‍රකාශන පදනම් කරගනිමින් පරිශීලකයන් විසින් ගනු ලබන ආර්ථික තීරණ කෙරෙහි වන බලපෑම මත රඳා පවතී.

ශ්‍රී ලංකා විගණන ප්‍රමිති ප්‍රකාරව විගණනයේ කොටසක් ලෙස මා විසින් විගණනයේදී වෘත්තීය විනිශ්චය සහ වෘත්තීය සැකමුසුබවින් යුතුව ක්‍රියා කරන ලදී. මා විසින් තවදුරටත්,

- ප්‍රකාශ කරන ලද විගණන මතයට පදනමක් සපයා ගැනීමේදී වංචා හෝ වැරදි හේතුවෙන් මූල්‍ය ප්‍රකාශනවල ඇති විය හැකි ප්‍රමාණාත්මක සාවද්‍ය ප්‍රකාශනයන් ඇතිවීමේ අවදානම් හඳුනාගැනීම හා තක්සේරු කිරීම සඳහා අවස්ථාවෝචිතව උචිත විගණන පරිපාටි සැලසුම් කර ක්‍රියාත්මක කරන ලදී. වරදවා දැක්වීම හේතුවෙන් සිදුවන ප්‍රමාණාත්මක සාවද්‍ය ප්‍රකාශනයන්ගෙන් සිදුවන බලපෑමට වඩා වංචාවකින් සිදුවන්නා වූ බලපෑම ප්‍රබල වන්නේ ඒවා දුස්සන්ධානයෙන්, ව්‍යාජ ලේඛන සැකසීමෙන්, වේතනාන්විත මහඟුරීමෙන්, වරදවා දැක්වීමෙන් හෝ අභ්‍යන්තර පාලනයන් මඟ හැරීමෙන් වැනි හේතු නිසා වන බැවිනි.
- අභ්‍යන්තර පාලනයේ සඵලදායීත්වය පිළිබඳව මතයක් ප්‍රකාශ කිරීමේ අදහසින් නොවුවද, අවස්ථාවෝචිතව උචිත විගණන පරිපාටි සැලසුම් කිරීම පිණිස අභ්‍යන්තර පාලනය පිළිබඳව අවබෝධයක් ලබාගන්නා ලදී.
- භාවිතා කරන ලද ගිණුම්කරණ ප්‍රතිපත්තිවල උචිතභාවය, ගිණුම්කරණ ඇස්තමේන්තුවල සාධාරණත්වය සහ කළමනාකරණය විසින් කරන ලද සම්බන්ධිත හෙළිදරව් කිරීම් අගයන ලදී.
- සිද්ධීන් හෝ තත්ත්වයන් හේතුවෙන් ආයතනයේ අඛණ්ඩ පැවැත්ම පිළිබඳ ප්‍රමාණාත්මක අවිනිශ්චිතතාවයක් තිබේද යන්න සම්බන්ධයෙන් ලබාගත් විගණන සාක්ෂි මත පදනම්ව ගිණුම්කරණය සඳහා ආයතනයේ අඛණ්ඩ පැවැත්ම පිළිබඳ පදනම යොදා ගැනීමේ අදාළත්වය තීරණය කරන ලදී. ප්‍රමාණවත් අවිනිශ්චිතතාවයක් ඇති බවට මා නිගමනය කරන්නේ නම් මූල්‍ය ප්‍රකාශනවල ඒ සම්බන්ධයෙන් වූ හෙළිදරව්කිරීම්වලට මාගේ විගණන වාර්තාවේ අවධානය යොමු කළ යුතු අතර, එම හෙළිදරව්කිරීම් ප්‍රමාණවත් නොවන්නේ නම් මාගේ මතය විකරණය කළ යුතුය. කෙසේ වුවද, අනාගත සිද්ධීන් හෝ තත්ත්වයන් මත අඛණ්ඩ පැවැත්ම අවසන් වීමට හැකිය.
- මූල්‍ය ප්‍රකාශනවල ව්‍යුහය හා අන්තර්ගතය සඳහා පාදක වූ ගනුදෙනු හා සිද්ධීන් උචිත හා සාධාරණව ඇතුළත්වී ඇති බව සහ හෙළිදරව්කිරීම් ඇතුළත් මූල්‍ය ප්‍රකාශනවල සමස්ථ ඉදිරිපත් කිරීම අගයන ලදී.

මාගේ විගණනය තුළදී හඳුනාගත් වැදගත් විගණන සොයාගැනීම්, ප්‍රධාන අභ්‍යන්තර පාලන දුර්වලතා හා අනෙකුත් කරුණු පිළිබඳව පාලනය කරනු ලබන පාර්ශවයන් දැනුවත් කරමි.



2. වෙනත් තෛතික හා නියාමන අවශ්‍යතා පිළිබඳ වාර්තාව
- 2.1 2018 අංක 19 දරන ජාතික විගණන පනතේ පහත සඳහන් අවශ්‍යතාවයන් සම්බන්ධයෙන් විශේෂ ප්‍රතිපාදන ඇතුළත් වේ.
- 2.1.1 2018 අංක 19 දරන ජාතික විගණන පනතේ 12(අ) වගන්තියේ සඳහන් අවශ්‍යතාවන් අනුව, විගණනය සඳහා අවශ්‍ය සියලු තොරතුරු සහ පැහැදිලි කිරීම් මා විසින් ලබාගන්නා ලද අතර, මාගේ පරීක්ෂණයෙන් පෙනී යන ආකාරයට නිසි මූල්‍ය වාර්තා ආයතනය පවත්වාගෙන ගොස් තිබුණි.
- 2.1.2 2018 අංක 19 දරන ජාතික විගණන පනතේ 6(1)(ඇ)(iii) වගන්තියේ සඳහන් අවශ්‍යතාවය අනුව ආයතනයේ මූල්‍ය ප්‍රකාශන ඉකුත් වර්ෂය සමඟ අනුරූප වේ.
- 2.1.3 2018 අංක 19 දරන ජාතික විගණන පනතේ 6 (1)(ඇ)(iv) වගන්තියේ සඳහන් අවශ්‍යතාවය අනුව ඉකුත් වර්ෂයේදී මා විසින් සිදුකරන ලද නිර්දේශයන් ඉදිරිපත් කරන ලද මූල්‍ය ප්‍රකාශනවල ඇතුළත්ව ඇත.
- 2.2 අනුගමනය කරන ලද ක්‍රියාමාර්ග සහ ලබා ගන්නා ලද සාක්ෂි මත හා ප්‍රමාණාත්මක කරුණුවලට සීමා කිරීම තුළ, පහත සඳහන් ප්‍රකාශ කිරීමට තරම් කිසිවක් මාගේ අවධානයට ලක් නොවීය.
- 2.2.1 2018 අංක 19 දරන ජාතික විගණන පනතේ 12 (ඇ) වගන්තියේ සඳහන් අවශ්‍යතාවය අනුව ආයතනයේ පාලක මණ්ඩලයේ යම් සාමාජිකයෙකුට ආයතනය සම්බන්ධවී යම් ගිවිසුමක් සම්බන්ධයෙන් සෘජුව හෝ අන්‍යාකාරයකින් සාමාන්‍ය ව්‍යාපාරික තත්ත්වයෙන් බැහැරව සම්බන්ධයක් ඇති බව.
- 2.2.2 2018 අංක 19 දරන ජාතික විගණන පනතේ 12(ඊ) වගන්තියේ සඳහන් අවශ්‍යතාවය අනුව පහත සඳහන් නිරීක්ෂණ හැර යම් අදාළ ලිඛිත නීතියකට හෝ ආයතනයේ පාලක මණ්ඩලය විසින් නිකුත් කරන ලද වෙනත් පොදු හෝ විශේෂ විධානවලට අනුකූල නොවන ලෙස ක්‍රියා කර ඇති බව.

<u>නීතිරීති / විධානයට යොමුව</u>	<u>නිරීක්ෂණ</u>
<p>(අ) ශ්‍රී ලංකා ප්‍රජාතාන්ත්‍රික සමාජවාදී ජනරජයේ මුදල් රෙගුලාසි සංග්‍රහය</p> <hr/> <p>(i) මුදල් රෙගුලාසි 757</p>	<p>සෑම වර්ෂයක් සඳහාම භාණ්ඩ සමීක්ෂණයක් සිදුකර එළඹෙන වර්ෂයේ මාර්තු 31 දිනට පෙර විගණකාධිපති වෙත වාර්තා ඉදිරිපත් කළයුතු වුවද, 2020 වර්ෂයට අදාළ භාණ්ඩ සමීක්ෂණ වාර්තා ඉදිරිපත් කර තිබුණේ මාස 10 ක කාලයක් ප්‍රමාදවී 2022 ජනවාරි 26 දින දීය.</p>

(ii) මුදල් රෙගුලාසි 880

රජයේ නිලධාරීන්ගේ ඇප ආඥා පනතේ විධිවිධාන ප්‍රකාරව ඇප තැබිය යුතු නිලධාරීන් 04 දෙනෙකුගෙන් ඇප තැන්පතු ලබා ගෙන නොතිබුණි.

(ආ) 2003 ජුනි 02 දිනැති අංක PED/12 දරන රාජ්‍ය ව්‍යාපාර ව්‍යුලේඛයේ 6.5.3 ඡේදය

මුදල් වර්ෂය අවසන්වී දින 150 ක් ඇතුළත විගණන වාර්තාව සමඟ පසුගිය වර්ෂයේ කාර්යසාධනය ඇතුළත් වාර්ෂික වාර්තාව පාර්ලිමේන්තුවේ සභාගත කළයුතු වුවද, ඉකුත් වර්ෂයට අදාළ වාර්ෂික වාර්තාව 2021 දෙසැම්බර් 31 දින වන විටද පාර්ලිමේන්තුවේ සභාගත කර නොතිබුණි.

(ඇ) 1978 අංක 842 දරන භාණ්ඩාගාර ව්‍යුලේඛය හා 2009 සැප්තැම්බර් 01 දිනැති අංක DMA/ 2009 (2) දරන කළමනාකරණ විගණන දෙපාර්තමේන්තු ව්‍යුලේඛයේ 02 ඡේදය

මුළු පිරිවැය රු.432,885,910 ක්වූ ජංගම නොවන වත්කම් සම්බන්ධයෙන් ස්ථාවර වත්කම් ලේඛනයක් පවත්වා නොතිබුණි.

2.2.3 2018 අංක 19 දරන ජාතික විගණන පනතේ 12(උ) වගන්තියේ සඳහන් අවශ්‍යතාවය අනුව ආයතනයේ බලතල, කර්තව්‍ය සහ කාර්යයන්ට අනුකූල නොවන ලෙස කටයුතු කර ඇති බව.

2.2.4 2018 අංක 19 දරන ජාතික විගණන පනතේ 12(ඌ) වගන්තියේ සඳහන් අවශ්‍යතාවය අනුව, ආයතනයේ සම්පත් සකසුරුවම් ලෙස, කාර්යක්ෂම ලෙස සහ ඵලදායී ලෙස කාලසීමාවන් තුළ අදාළ නීතිරීති වලට අනුකූලව ප්‍රසම්පාදනය කර භාවිතා කර නොමැති බව.

2.3 වෙනත් කරුණු

(අ) සමාලෝචිත වර්ෂය තුළදී පශ්චාත් උපාධි හා ඩිප්ලෝමා පාඨමාලා සඳහා සිසුන් 520 ක් ඇතුළත් කර ගැනීමට අපේක්ෂා කර තිබුණු නමුත් සිසුන් 156 ක් පමණක් ඇතුළත් කරගෙන තිබුණු අතර එය අපේක්ෂිත ප්‍රමාණයෙන් සියයට 30 ක් වැනි අඩු ප්‍රතිශතයක් ගෙන තිබුණි.

(ආ) නිලධාරියකුගෙන් අයවිය යුතුව පැවති ආපදා සහ පරිගණක ණය රු.112,988 ක් වසර 05 කට අධික කාලයක සිට අය කරගෙන නොතිබුණි.

(ඇ) ශිෂ්‍යයන් වෙත පර්යේෂණ කටයුතු සඳහා පහසුකම් ලබාදීම සඳහා 2018 වර්ෂයේදී ආරම්භකර තිබුණු අරමුදල් ගිණුමේ පැවති රු.2,083,789 ක් 2021 දෙසැම්බර් 31 දින වන විටත් උපයෝජනය කර නොතිබුණි.

- (ඇ) මුදල් භාරගැනීම, රිසිට්පත් මුද්‍රණය කිරීම, ඒවා ගිණුම්කරණ පැනේජයට ඇතුළත් කිරීම හා මුදල් බැංකුගත කිරීම යන සියළු කාර්යයන් එක් නිලධාරියෙකු වෙත පවරා තිබුණු බැවින් ඒ සම්බන්ධයෙන් ප්‍රමාණවත් අභ්‍යන්තර පාලනයක් පවත්වා නොතිබුණි.
- (ඉ) බදුල්ල - මහනුවර අධිවේගී මාර්ගය තැනීමේදී සිදුවන පාරිසරික බලපෑම පිළිබඳ ඇගයීම් වාර්තාවක් ලබාගැනීම සඳහා මාර්ග සංවර්ධන අධිකාරිය වෙතින් ලැබී තිබුණු රු.6,386,200 ක් ජේරාදෙනිය විශ්ව විද්‍යාලයේ කතිකාචාර්ය වරයෙකු සඳහා ගෙවා තිබුණු රු.6,386,200 ක් ගෙවා ඇති ආකාරය සහ එය නිසි ආකාරයෙන් වියදම් කර තිබේද යන්න ගැන පරීක්ෂණයක් කර වාර්තා කරන ලෙස පොදු ව්‍යාපාර කාරක සභාව විසින් නිර්දේශ කර වසරක කාලයක් ගතවී තිබුණු නමුත් මේ දක්වාම එම කාර්යයේ ප්‍රමාණවත් ප්‍රගතියක් පෙන්නුම් කර නොතිබුණි.
- (ඊ) ආයතනය විසින් පවත්වනු ලබන දර්ශනාඥවාර්ය උපාධි (Ph.D) පාඨමාලා 10 ක් සඳහා 2017 වර්ෂයේ සිට සමාලෝචිත වර්ෂය දක්වා සිසුන් 18 ක් පමණක් ලියාපදිංචි කර තිබුණි. 2017 වර්ෂයේ සිට සමාලෝචිත වර්ෂය දක්වා ලියාපදිංචිවන එම සිසුන් සංඛ්‍යාව ක්‍රමයෙන් අඩුවී තිබුණු අතර ඉකුත් වර්ෂයේදී එක් සිසුවෙකු පමණක් ලියාපදිංචිවී තිබුණු නමුත් සමාලෝචිත වර්ෂයේදී එක් ශිෂ්‍යයකු හෝ ලියාපදිංචිවී නොතිබුණි. ඊට අමතරව ඇතැම් පාඨමාලා සඳහා වසර 05 ක් මුළුල්ලේම එකඳු ශිෂ්‍යයකු හෝ ලියාපදිංචි කර නොතිබුණි.
- (උ) 2010, 2020, 2021 වර්ෂයන්වලදී ලැබී තිබුණු රු.1,776,855 ක පර්යේෂණ ප්‍රදානයන් 05 ක් සමාලෝචිත වර්ෂයේදීද ඌන උපයෝජිතව පැවතුණි.
- (ඌ) 2017 වර්ෂයේ සිට 2020 වර්ෂය දක්වා කාලයට අදාළව සිසුන් 1,794 දෙනෙකුගෙන් අයවිය යුතු රු.30,140,292 ක හිඟ පාඨමාලා ගාස්තු අය කර නොතිබුණි.

  
 ඩබ්ලිව්.පී.සී. වික්‍රමරත්න  
 විගණකාධිපති

**My No. KDA/D/PGIS/2022/08**

**Date: 31**

**May 2022**

**The Director**

**Postgraduate Institute of Science**

**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 2021 in terms of Section 12 of the National Audit Act, No. 19 of 2018.**

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**1. Financial Statements**

**1.1 Opinion**

The audit of the financial statements of the Postgraduate Institute of Science for the year ended 31 December 2021 comprising the statement of financial position as at 31 December 2021 and the 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 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, the financial statements give a true and fair view of the financial position of the Institute as at 31 December 2021, and of its financial performance and cash flows for the year then ended in accordance with Sri Lanka Public Sector Accounting Standards.

**1.2 Basis for Opinion**

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 this report. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my unqualified opinion.

### **1.3 Other Information Included in the Annual Report 2021 of the Institute**

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The other information means the information included in the 2021 Annual Report of the Institute, which is expected to be submitted to me after the date of this report, but not contained in the Financial Statements and my audit report thereon. Management is responsible for this other information.

My opinion on financial statements does not cover the other information and I do not express any assurance or opinion thereon.

My responsibility in connection with my audit of financial statements is to study the above identified other information and evaluate whether the other information is substantially mismatched with the financial statements or my knowledge gained in auditing or another manner.

In the study of Annual Report of the Postgraduate Institute of Science for the year 2021, if I conclude that there are substantial misstatements, I should communicate that matters to the governing body for correction. If there are misstatements further to be corrected, those will be included in the report which I table in parliament in accordance with Article 154 (6) of the Constitution in due course.

### **1.4 Responsibilities of Management and Those Charged with Governance for the Financial Statements**

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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.

## 1.5 Auditor's Responsibility for Auditing the Financial Statements

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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:

- Appropriate audit procedures were designed and performed identify and assess the risks of material misstatement in financial statements whether due to fraud or errors in providing a basis for the expressed audit 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.
- An understanding of internal control relevant to the audit was obtained 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 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. My conclusions are based on the audit evidence obtained up to the date of my auditor’s report. 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**

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- 2.1.1 National Audit Act, No. 19 of 2018 includes specific provisions for following requirements.
- 2.1.1. 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.
- 2.1.2 The financial statements presented by the Institute are consistent with the preceding year as per the requirement of section 6 (1) (d) (iii) of the National Audit Act, No. 19 of 2018.
- 2.1.3 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.



- (c) Treasury Circular No 842 of 1978 and Paragraph 02 of the Management Audit Department Circular No.DMA/2009 (2) dated 01 September 2009. A register of fixed assets had not been maintained in respect of non-current assets costing Rs.432,885,910.

2.2.3 to state that the Institute has not performed according to its powers, functions and duties as per the requirement of section 12 (g) of the National Audit Act, No. 19 of 2018.

2.2.4 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.

### **3. Other Matters**

- (a) It had been expected to enroll 520 students for postgraduate and diploma courses during the year under review. Nevertheless, only 156 students had been enrolled and it was as low as 30 per cent of the expected amount.
- (b) The distress loan and computer loan amounting to Rs. 112,988 due from an officer had not been recovered for more than a period of 05 years.
- (c) A sum of Rs. 2,083,789 existed in the Funds Account opened in the year 2018 to provide facilities for the students for their research activities had not been utilized even as at 31 December 2021.
- (d) Since all the activities such as acceptance of cash, printing of receipts, entering them in the accounting package and banking of cash had been entrusted to one officer, an adequate internal control had not been maintained in that respect.
- (e) Although a period of a year has passed since the Committee on Public Enterprises had recommended that an investigation be conducted and reported as to how Rs. 6,386,200 received from the Urban Development Authority was paid to a lecturer of the University of Peradeniya for obtaining environmental impact assessment report

during the construction of the Badulla - Kandy Expressway and whether it has been properly spent, no adequate progress of that task has been shown up to date.

- (f) Only 18 students had been registered from the year 2017 to the year under review for 10 doctorate degree (Ph.D) courses conducted by the Institute. The number of registered students had gradually decreased from the year 2017 to the year under review and only one student had been registered in the previous year, whereas not even a single student had been registered in the year under review. In addition, not a single student had been registered for some courses for the entire 05 years.
- (g) Five research grants of Rs. 1,776,855 received in the years 2010,2020,2021 remained underutilized even in the year under review.
- (h) Outstanding course fees of Rs. 30,140,292 due from 1,794 students relating to the period from 2017 up to 2020 had not been recovered.

W.P.C. Wickramaratne  
Auditor General.

Original document has been signed

**PGIS REPLY TO  
AUDIT  
OBSERVATIONS**

2.2.2	Reference to Laws, Rules/Directives	
(a)	Financial Regulations of the Democratic Socialist Republic of Sri Lanka	
	(I)	Financial Regulation 757
		The shutting down of the country for several months and the maintenance of the Institute at a minimum level with a minimum number of employees for a few more months due to the Covid epidemic situation in the year 2020 has given rise to the creation of the situation pointed out by the Audit. The board of survey report related to the year 2021 has been forwarded to the Auditor General in due time.
	(II)	Action will be taken to recover the security deposits from the officers whose security deposits have not so far been recovered as pointed out by the Audit in accordance with the method of obtaining security deposits from officials in the university system.
(b)	The Ministry of Higher Education fixes a date for tabling the Annual Reports in Parliament. We have not so far been informed a date for that purpose. However, as informed by the letter No: HE/AD/04/Annual Reports/03 dated 04.05.2022, the annual reports and accounts have been prepared to be submitted to the Cabinet for approval.	
(c)	Arrangements are being made to rectify the deficiencies in the fixed asset register maintained by us.	
2.3	Other Matters	
	(a)	The Postgraduate Institute of Science invited applications for 16 postgraduate courses and started all those courses in the latter half of the year 2020. Therefore, applications were invited for the first quarter of 2021 from only 6 courses. However, due to the exiting Covid epidemic situation, there was a lack of students applying and registering for some courses and hence, action was taken to extend the registration period for those courses and the register the students accordingly. I would like to point out that it is very difficult to conduct postgraduate studies through online system especially for science subjects. However, at the latter half of the year 2021, applications for 15 courses were invited and students were registered and the relevant studies are being conducted through the online system. Furthermore, the necessary arrangements for inviting applications for the enrollment of students for 08 courses for the year 2022 are being made as usual.
	(b)	The balances of these distress and computer loans belonging to the former Senior Assistant Bursar, who has been dismissed, have now been settled.
	(c)	Calling for applications have been finalized for the award of research grants of another Rs.5 million and the balance of the research fund of Rs. 2,083,789.00 pointed out by the Audit, and the research programme evaluation board is engaged in the project evaluation activities at present. Action will be taken to provide a research

		grant of Rs.5 lakh per year for each research project selected.
	(d)	Due to the loss of several positions in the Institute with the revision of the cadre made by the Department of Management Services, the situation pointed out by the Audit regarding the Accounts Division has arisen. At present, arrangements are being made to update the lost posts once again and once these posts are updated, it will be possible to avoid this situation.
	(e)	The committee appointed by the Ministry of Higher Education has now submitted the investigation report to the Committee on Public Enterprises.
	(f)	Since the NSF and NRC, which provide funding for Ph.D. research degrees in Sri Lanka, have made a reduction in the allocations allocated by those institutions for the years 2020 and 2021, there is a decrease in student registration for research degrees. However, 42 students have registered for Master of Philosophy (M.Phil) courses in 2020 and 30 students for 2021 and 04 students have registered for Doctor of Philosophy (Ph.D) courses in 2020 and 04 students have registered for 2021.
	(g)	In the 5 underutilized research projects that the audit has pointed out, there is only an amount of Rs. 1,191,918 as the balance at present. Due to the lack of chemicals and equipment required for research work in the market, a situation has arisen where it is impossible to complete this research work within the due period.
	(h)	According to the rules of the Post Graduate Institute of Science, students are given 5 years to complete the courses. Accordingly, due to the students registered in the years 2017, 2018, 2019 engaging in further education activities, this situation has been created. The balance shown by the audit has been created due to the disruptions to the running of studies due to the Covid epidemic situation in the country in the years 2020, 2021, 2022 and other unrest conditions.

# Report of the Audit and Management

**REPORT OF THE AUDIT & MANAGEMENT COMMITTEE, POSTGRADUATE  
INSTITUTE OF SCIENCE - 2021**

**Introduction**

The Audit & Management Committee was appointed by the Postgraduate Institute of Science Board of Management at its 141<sup>st</sup> Meeting held on 09.05.2018. The Committee comprises of two Non-Executive Governing Council Members of the University and a member representing the General Treasury under the provisions made on paragraph 7.4.1 of Public Enterprises Guideline for Good Governance.

In the year 2021, Three (03) Audit & Management Committee meetings were held with the participation of the Director, Deputy Bursar, Assistant Registrar, and the Superintendent of Audit of the National Audit Office who is the representative of the Auditor General of Sri Lanka. The Audit & Management Committee performs its duties according to the scope specified in the Public Enterprises Guidelines for Good Governance, University Grants Commission Circulars, and Ministry of Higher Education Circulars and makes recommendations to strengthen the Internal Control Systems on the operations of Finance, Academic, Non-Academic, activities and improve the Administrative Procedures of the Postgraduate Institute of Science, University of Peradeniya.

**Progress**

During the year under review, the Audit & Management Committee has made several recommendations, directions and proposals which have paved the way toward the improvement of internal controls and auditing. Postgraduate Institute of Science, University of Peradeniya was also able to obtain a Qualified Audit Opinion from the Auditor General on the Financial Statements for the financial year ended 31<sup>st</sup> December 2020.

**Internal Audit Division**

Important matters and work done by the Internal Audit Division under the guidance of the Audit & Management Committee can be summarized as follows.

- The Internal Audit Division has made 19 recommendations by issuing 2 Internal Audit Reports by upgrading the internal control systems of the University even under a roster basis of the staff attendance in compliance with the health instructions under the Covid-19 Pandemic situation.
- Liaised with the External Auditor and directed the Officers employed by the Postgraduate Institute of Science, University of Peradeniya to take follow-up actions on highlighted flaws and lapses on audit queries and reports of the Auditor General.
- In addition, the Internal Audit Division has almost covered its Annual Internal Audit Plan by using Sample Audit techniques, Tests of controls, Substantive analytical procedures and detailed substantive procedures.

Accordingly, the important matters were discussed in the meetings of the Audit & Management Committee and the recommendations of the Committee can be summarized as follows.

- Reviewed, evaluated and made recommendations to upgrade the systems and internal controls on the Verification of Inventory items handed over by the HETC project to the Institute.
- Reviewed, evaluated and made recommendations to develop the policy on revenue recognition of the Postgraduate Institute of Science.
- to update the Student Database Computerized System/ MIS for easy reference as well as to reduce the omission and commission errors.
- To prepare a comprehensive report on the outstanding the student course fee to the Institute and to analyze the dropout student of the institute
- to develop the student assessment system for the Institute with the concurrence of the Quality Assurance Council
- to follow the rules and regulations regarding contract administration, recruitment of the academic staff, documentation of the personal file and releasing the retirement benefits of the employees reported through the management letters placed before the audit and management committee
- to incorporate the payment for lecture hours based on the logging details of student's attendance and actual time spent for online delivery confirmed by LMS/LEARN and any other approved sources
- to revalue the assets which are shown zero value in the financial statement
- to take corrective action as per the directives of the COPE

The followings are the comments made by the Chairman of the Audit & Management Committee.

- The necessary steps are being taken to rectify the weaknesses in the Internal Control Systems in the Institute and the accounting and internal control systems have to be further reviewed, upgraded and enforced.
- The present top management has taken positive steps to implement the recommendations of the Audit & Management Committee and Internal Audit Division.
- However, some recommendations of the Internal Audit and Audit & Management Committee have not been properly implemented on certain occasions by employees of the Institute and the support of the higher authorities is required for enforcement Eg. transfer of the ownership of Land of the Institute, developing the management information system etc.
- The Institute has to be reorganized to identify weaknesses in the staff, design and conduct training programs to improve the performance of staff in each category. The staff of the Administration/ Finance Divisions have to be fully aware of the rules and regulatory framework of the Institute. The staff awareness programs to be improved E.g. Awareness program on the Board of Survey.
- The cooperation of staff is required for the implementation of internal controls recommended by Internal Audit Division, Audit & Management Committee and Auditor General's Department.

#### **Failures and Justifications**

The Internal Audit Division of the University of Peradeniya has made their Internal Audit Activities on the approved Internal Audit Plan under insufficient human resource allocation. Presently, Internal Audit Division has expanded its duties of internal audit not only to the University of Peradeniya but also to the Postgraduate Institute of Agriculture, Postgraduate Institute of Science, and Postgraduate Institute of Humanities & Social Sciences since 2019.

Postgraduate Institute of Science function as separate entity funded by their own funds and without allocating any staff for Internal Auditing. The internal Audit Division of the University should carry out more than 16 Audit & Management Committee meetings annually, out of which, 04 meetings for Postgraduate institute should be held. As the Internal Auditor has to participate in so many meetings and take up minutes of said meetings and more time and staff have to be allocated for pre-audit activities, the work of the planned internal Auditing may get affected due to lack of human resource allocation.

When considering the above huge volume of activities of the Internal Audit Division of the University of Peradeniya, and its Postgraduate Institutes, it is justifiable to provide required additional cadres to fully implement the Annual Audit Plan of the University. Also, separate cadre shall be allocated for Postgraduate Institute of Science to function their audit activities smoothly as recommended by the COPE.

#### Future Plans

The Audit & Management Committee of the Postgraduate Institute of Science is planning to further extend its objectives to review the systems and controls and make its recommendations to strengthen the internal control systems for upgrading the financial and administrative procedures of the Postgraduate Institute of Science, University of Peradeniya. Further, it is requested to increase human resource allocation for the Internal Audit Division to effectively perform its duties and functions.

  
D.M.B.G. Diyagama  
Chairman, Audit & Management Committee  
Postgraduate Institute of Science

  
A.G.F. Fazha  
Senior Assistant Internal Auditor, UOP