



# POSTGRADUATE INSTITUTE OF SCIENCE (PGIS)

## University of Peradeniya



Join the nation's leader in postgraduate education and research in sciences .....

### MASTERS DEGREE PROGRAMMES 2020/2021

#### Call for Applications

#### MASTERS STUDENTS AT THE PGIS . . . . .

- Learn from a distinguished panel of teachers and scientists drawn from all Faculties of the University of Peradeniya and from other local and foreign universities and institutes.
- Get **hands-on experience in practical/laboratory training** required for industrially oriented jobs, research and development, teaching and higher research degrees locally and internationally.
- Improve career prospects by obtaining a postgraduate degree from the University of Peradeniya.
- **Conduct a research project and obtain experience** in applying scientific method to solve problems in local/global context (*applicable to students following 'Masters degree programme with course work and a research component'*).
- Gain an opportunity to register/upgrade to M.Phil./Ph.D. research degree programme at the PGIS or join a prestigious foreign university for a Ph.D. programme.

Masters degree programmes are offered at the PGIS under following categories:

#### **Masters by course work (1 year) [Sri Lanka Qualification Framework (SLQF) Level 9]**

The 'Masters Degree by course work' can be obtained by completing course work only.

#### **Master of Science (2 years) [SLQF Level 10]**

In addition to the requirements for the 'Masters Degree by course work', the 'Master of Science Degree' requires a research project of one year duration. The minimum duration of the entire programme shall be 24 months.

#### **Postgraduate Diploma (1 year) [SLQF Level 8]**

The postgraduate Diploma programme in Science Education is of 12 months duration and consists of only taught courses.

Most programmes are conducted generally during **week-ends**.

#### **ADMISSION REQUIREMENTS:**

A Bachelor's Degree in Science, Engineering, Agriculture, Medicine, Surveying or any other equivalent qualification from a recognized university, acceptable to the PGIS. **Those who are awaiting results of their final degree examinations may also apply.**

#### **APPLICATION PROCEDURE:**

Application forms and course contents of the programme/s can be downloaded from the website: [www.pgis.lk](http://www.pgis.lk). The completed-application forms should be submitted with a processing fee of Rs. 2000/- to the Assistant Registrar, Postgraduate Institute of Science, University of Peradeniya, Peradeniya on or before **31<sup>st</sup> January 2020**.

Mode of Payment of Processing Fee (Rs. 2000/-):

- Deposit to the PGIS A/C No. 0081041788 at Bank of Ceylon, Peradeniya; Please attach a scanned copy of the Bank Slip with the applicant's name.
- By cash: Accepted only at the shroff counter of the PGIS.
- Online payment option: Follow the link <https://ipg.pgis.lk/>. Please write the 'Order ID' displayed on the *Payment Receipt Page* upon successful payment.

For details please contact the Assistant Registrar (081 2394793/2385660 or e-mail: [ar@pgis.lk](mailto:ar@pgis.lk)).

#### MASTERS DEGREE PROGRAMMES SCHEDULED TO COMMENCE IN MARCH/APRIL 2020:

The deadline for the receipt of applications for Masters degree programmes listed below is **31<sup>st</sup> January 2020**. The programme fee can be paid in full or in **two installments** (50% at the registration and 50% at the beginning of the second semester) or in **three installments** (1<sup>st</sup> installment at the registration, 2<sup>nd</sup> installment after 4 months from the date of registration and 3<sup>rd</sup> installment after 8 months from the date of registration).

#### **Masters Degree in Data Science [SLQF Level 9/10]**

There is an increasing demand for experts with knowledge and skills to effectively carry out analytics of large and complex data in data driven organizations involving finances, insurance, telecommunication, robotics, information technology, business, medical sector, computational biology, healthcare and education. To take up these challenges, the PGIS is introducing Masters programme in Data Science, which aims to provide graduates a comprehensive coverage of knowledge and skills to do analytics of large and complex data focusing on applications and conducting research in the relevant fields and methods of presentation and interpretation of results. (Programme Fee - Rs. 350,000/- for 1-year category; Rs. 350,000/- + 100,000/- for 2-year category).

#### **Masters Degree in Experimental Biotechnology [SLQF Level 9/10]**

This programme provides advanced knowledge and training in biotechnology that could be applied in the fields of medicine, agriculture, environment, pharmaceuticals, and biomedical research and industry. The main emphasis of this uniquely designed programme is to impart a sound knowledge in hands-on skills in the experimental aspects of biotechnology. The high programme fee reflects the high cost of chemicals used. (Programme Fee - Rs. 225,000/- for 1-year category; Rs. 225,000/- + 125,000/- for 2-year category).

#### **Masters Degree in Medical Microbiology [SLQF Level 9/10]**

Effective control of infective diseases requires a multi-pronged approach, central to which is the availability of a network of efficient and reliable microbiology diagnostic and reference laboratories, which requires persons trained in laboratory methodology, including molecular techniques which are being increasingly used for diagnostic and epidemiological purposes. The Masters programme aims to produce scientists ready to apply modern methods of diagnosis of infective diseases caused by viruses, bacteria, fungi and other parasites and these scientists will be able to pursue a career in research or in diagnostic microbiology. (Programme Fee - Rs. 225,000/- for 1-year category; Rs. 225,000/- + 100,000/- for 2-year category).

#### **Masters Degree in Science Education [SLQF Level 9/10]**

The programme is designed especially for science teachers and educationists and for those who could contribute to the development of science education in Sri Lanka. The programme consists of a professional general component of Science Education, and a special component from one of the four subject areas: Biology Education, Chemistry Education, Mathematics Education and Physics Education. In addition, practicals, a research project and a seminar in the special component are also included in the programme. State-of-the-art activity-based and interactive methods of teaching forms a significant part of training. Classes are conducted throughout the week. (Programme Fee - Rs. 100,000/- for 1-year category; Rs. 100,000/- + 80,000/- for 2-year category).

#### **Postgraduate Diploma in Science Education [SLQF Level 8]**

This postgraduate Diploma programme in Science Education is designed especially for science graduates who are planning to become teachers and for science teachers who are already employed. Postgraduate diploma programme is of 12 months duration and consists of taught courses. (Programme Fee - Rs. 70,000/-).

### M.Phil./Ph.D. RESEARCH DEGREE PROGRAMMES [SLQF LEVEL 11 AND 12]

M.Phil./Ph.D. (full-time) research degree programmes in several disciplines are also available throughout the year under the following Boards of Study:

- |                                      |                                   |
|--------------------------------------|-----------------------------------|
| • Biochemistry and Molecular Biology | • Physics                         |
| • Biomedical Sciences                | • Plant Sciences                  |
| • Chemical Sciences                  | • Science Education               |
| • Earth Sciences                     | • Statistics and Computer Science |
| • Environmental Science              | • Zoological Sciences             |
| • Mathematics                        |                                   |

Registration and Tuition Fees (M.Phil./Ph.D.): Rs. 30,000/- per year

In addition, candidates are required to pay research project expenses, which may range from Rs. 50,000 to 200,000, if not covered by a grant.

M.Phil. programmes are typically of 2 - 3 years duration and Ph.D. programmes are of 3 - 4 years duration. Deserving students may qualify for Research Assistantships offered by the National Science Foundation (NSF) and other agencies, which would also cover the registration and tuition fees.

For details, please contact the Assistant Registrar (Tel.: 081-2394793/2385660, e-mail: [ar@pgis.lk](mailto:ar@pgis.lk)) or the director (Tel.: 081 2387218).

For details please see the PGIS WEBSITE: [www.pgis.lk](http://www.pgis.lk)

Director, PGIS  
8<sup>th</sup> December 2019