

# POSTGRADUATE INSTITUTE OF SCIENCE UNIVERSITY OF PERADENIYA



## M.Sc. / Postgraduate Diploma in Applied Epidemiology

### 1. INTRODUCTION

As the population exceeds 20 million people in a small country like Sri Lanka public health challenges could expand tremendously. The practice of global public health has expanded to include a network of practicing epidemiologists working together and with other public health practitioners to address commonly shared challenges and opportunities.

Epidemiology is the key scientific discipline underlying some of the most important areas of medicine including public health, clinical research, clinical trials and health services research. Epidemiological studies and research has become an important tool in the study of aetiology of diseases, natural history of infectious and non-infectious diseases and in assessing health effects in populations. Epidemiological information is used to plan and evaluate strategies to prevent illness, as a guide to the management of patients and in animals in whom the disease in question has already developed.

There are increasing concerns about the adequacy of current training in epidemiology for public health practice. In preparing epidemiologists for the expanded scope of problems relevant to public health intervention, the proposed M.Sc/ Postgraduate Diploma course in **Applied Epidemiology** is designed to provide excellence in teachings of epidemiological, bio statistical concepts and methods. The emphasis will be given to practical applications of epidemiological methods in clinical and in public health settings.

The Postgraduate Institute of Science (PGIS) is well organized and supported with a trained academic staff and has access to relevant institutions for practical training. In addition the 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 eight 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 science-based Faculties of the University of Peradeniya and research institutions in the country are used to provide research training to students.

The teachers of the course will be those who have been teaching epidemiology and related subjects, both theory and practical in veterinary, medical and basic science fields. In addition, they are experts with field experience in applications of such epidemiological principles in combating outbreaks, disastrous conditions together with disease surveillance and monitoring. Teaching will be carried out through lectures, seminars and practical sessions. Seminar discussions will focus on current issues, applications and developments in epidemiology. The practical sessions will involve data collection, data entry and processing, analysis, interpretation of results and discussions. Furthermore, small working groups will be formed among the participants to discuss variety of epidemiological studies with the use of computer facilities available at the PGIS. Extensive reading and critical analysis of published scientific literature of global and national importance will be stressed.

## 2. AIMS AND OBJECTIVES

The programme will provide students with an understanding of epidemiological concepts with training in essential methodological skills required to conduct epidemiological studies in human and animal populations.

On completion of the programme, students will be able to:

- demonstrate an understanding of the key concepts in the discipline of epidemiology;
- apply epidemiological principles to surveillance and disease control within animal and human populations;
- communicate effectively with researchers from different disciplinary backgrounds;
- select an appropriate study design when confronted with an epidemiological investigation;
- question and develop a detailed study protocol capable of answering a given research question;
- analyse and interpret epidemiological data derived from cross-sectional, case-control and follow-up studies ;
- propose appropriate solutions and mitigatory measures to control epidemic conditions.

## 3. PROGRAMME ELIGIBILITY

Applicants for admission to the programme must have successfully completed an BVSc/MBBS/BSc or any other equivalent qualification acceptable to the Postgraduate Institute of Science, University of Peradeniya.

## 4. PROGRAMME FEE

*(N.B. The programme fees given below may be revised.)*

	Programme fee (M.Sc.)	Programme fee (Diploma)
Local candidates	Rs. 160,000/-	Rs. 70,000/-
Foreign candidates	Rs. 320,000/-	Rs. 140,000/-

Programme fee shall be paid in two installments (*50% at the registration and the other 50% within six months of registration.*) Other payments including registration fee, medical fee, examination fee and deposits (science and library) should be paid according to the procedure stipulated by the PGIS.

## 5. THE PROGRAMME STRUCTURE AND DURATION

This is a full-time programme consisting of course work and a research project. Course work will be conducted over a period of two semesters of 15 weeks each (*during weekends and on some weekdays*) which will involve 12 months. Satisfactory completion of a minimum of 24 credits of course work with a GPA of not less than 2.75 is required for the Postgraduate Diploma in Applied Epidemiology. Such a student should apply for a Postgraduate Diploma in Applied Epidemiology at this stage.

The student who satisfactorily completes a minimum of 24 credits of course work with a GPA of not less than 3.00 is eligible for the award of the M.Sc. Degree., when he/she successfully completes the research project (6 credits). The entire programme duration will be 18 months inclusive of 6 months duration of the research project. Continuous attendance is compulsory during the period of research work.

However, a student who satisfactorily completes a minimum of 24 credits of course work with a GPA of not less than 3.00 and does not wish to do a research project, can apply for a Postgraduate Diploma in Applied Epidemiology.

### Programme Summary

Course Code	Course Title	Lecture hours	Practical hours	No. of Credits
ZLE 501	Introduction to Epidemiology	15		1
ZLE 502	Methods in Epidemiology I	20	20	2
ZLE 503	Methods in Epidemiology II*( pre requisite – ZLE 502)	20	20	2
ZLE 504	Environmental Epidemiology	20	20	2
ZLE 505	Overview of Public Health	20	20	2
ZLE 506	Zoonoses and Public Health	30	30	3
ZLE 507	Public Health Policy and Law	15		1
ZLE 508	Infectious Disease Surveillance and Outbreak Investigation	20	20	2
ZLE 509	Bioinvasions, Bioterrorism, Biosecurity and Public Health	30	30	3
ZLE 510	Biostatistics and Statistical Applications in Health Sector	20	20	2
ZLE 511	Health Care Systems: Management & Evaluation Techniques*	20	20	2
ZLE 512	Sociology of Health, Illness & Health Promotion*	15		1
ZLE 513	Research Methodology, Scientific writing, and Seminar	20	20	2
ZLE 514	Independent Study*			1
	Total Number of Credits			26
	<b>RESEARCH PROJECT</b>			
ZLE 515	Research Project		6 months	6

\* Optional courses. Students are required to obtain 4 credits from optional courses.

## 6. PROGRAMME CONTENTS

**Course Code: ZLE 501**

**Course Title: Introduction to Epidemiology (1 Credit)**

**Prerequisites: None**

**Course Objectives:** At the completion of this course, the student will be able to:

- Assess major epidemiologic events and studies in the context of the historical evolution, landmark studies and applications of epidemiology;
- Assess disease concepts using basic epidemiologic concepts, including the natural history of disease, measurement of risk, models of disease transmission, levels of prevention, and causality, including environmental and genetic causes of disease;
- Assess current epidemiologic studies based on the strengths and weaknesses of the major study designs used in epidemiology; cross-sectional, case-control, cohort and clinical trials;
- Assess the effects of bias, confounding, power of studies, and attrition on validity, reliability and generalizability in epidemiologic studies, apply standard approaches for handling them through study design and analysis;
- Evaluate and synthesize scientific literature on an epidemiologic problem of the student's choice, using the concepts provided during this course, in a term paper and an oral presentation.

**Course Content:** The course introduces the basic principles and methods of epidemiology and demonstrates their applicability in the field of public health. Topics to be covered include the historical perspective of epidemiology, measures of disease occurrence and of association, clinical epidemiology, diagnostic tests, causal inference, and basic study design, trends in epidemiology.

**Students Assessment:**

The evaluation of the course shall be based on three components: within course and end of course examinations and assignments (quizzes, tutorials etc.).

The weightage of marks given below can generally be used as a guideline in the computation of the final grade.

End of course examination - 50%

Other examination(s) (within course) - 30%

Assignments - 20%

**Course Code: ZLE 502**

**Course Title: Methods in Epidemiology I (2 Credits)**

**Prerequisites: None**

**Course Objectives:** At the completion of this course, the student will be able to:

- Analyze the scientific foundation for the establishment of causation;
- Analyze the strengths and weaknesses of the following study designs: case-control, cohort, randomized clinical trial, and community intervention trial;
- Evaluate the role of clinical epidemiology in community health; analyze the scientific foundations of disease surveillance and screening in public health;
- Identify the methods and strategies for conducting infectious disease epidemiology.

**Course Content:** This course will introduce the student to the most common analytic methods in epidemiology. Students will learn how to design epidemiologic studies, to choose appropriate research designs, and to utilize common statistical tests. Emphasis will be placed on case control studies, cohort studies, cross sectional studies, clinical epidemiology, community intervention trials, infectious disease epidemiology and errors in epidemiological survey.

**Students Assessment:**

The evaluation of the course shall be based on three components: within course and end of course examinations and assignments (quizzes, tutorials etc.).

The weightage of marks given below can generally be used as a guideline in the computation of the final grade.

End of course examination - 50%

Other examination(s) (within course) - 30%

Assignments - 20%

**Course Code: ZLE 503:**

**Course Title: Methods in Epidemiology II (2 Credits)**

**Prerequisites: Methods in Epidemiology I (2 Credits)**

**Course Objectives:** At the completion of this course, the student will be able to:

- Understand the basic demography
- Measure the disease frequency
- Direct and in-direct standardization
- Criteria for causality

- Matched case control studies
- Clinical trial planning and interpretation
- Advanced design concepts of ecological, cross-sectional, case-control, and cohort studies

**Course Content:** This course will introduce the student to advance analytic methods in epidemiology. Students will be able to design techniques that will help to choose appropriate research designs in the field of epidemiology, and to utilize advance statistical methods. Emphasis will be placed on identifying the diseases with unknown etiology, clinical epidemiology.

**Students Assessment:**

The evaluation of the course shall be based on three components: within course and end of course examinations and assignments (quizzes, tutorials etc.).

The weightage of marks given below can generally be used as a guideline in the computation of the final grade.

End of course examination - 50%

Other examination(s) (within course) - 30%

Assignments - 20%

**Course Code: ZLE 504**

**Course Title: Environmental Epidemiology (2 Credits)**

**Prerequisites: None**

**Course Objectives:** At the completion of this course, the student will be able to:

- Identify some of the major chemical, physical, and biological agents as risk factors for environmentally-related diseases.
- Describe hazardous effects of some major environmental exposures on human physical health, including disease induction, physiological impairment, and genetic susceptibility to risk.
- Describe pathways of exposure to hazardous agents in the workplace and general environment.
- Describe methods for assessing human exposures to hazardous agents for epidemiological research purposes.
- Describe the influences of genetic susceptibility on risks related to environmental agents.

**Course Content:** This course focuses on methods to study relations between exposure to environmental agents (for example air pollutants and metals) or conditions (heat waves) and effect markers, symptoms, morbidity and mortality in population and subgroups. It also describes how to use the information from epidemiological and toxicological studies in risk assessment and environmental health impact assessment.

**Students Assessment:**

The evaluation of the course shall be based on three components: within course and end of course examinations and assignments (quizzes, tutorials etc.).

The weightage of marks given below can generally be used as a guideline in the computation of the final grade.

End of course examination - 50%

Other examination(s) (within course) - 30%

Assignments - 20%

**Course Code: ZLE 505**  
**Course Title: Overview of Public Health (2 Credits)**  
**Prerequisites: None**

- Course Objectives:** At the completion of this course, the student will be able to:
- Achieve familiarity with various components of the public health policy implementation;
  - Understand interrelationships among different components in public health systems;
  - Acquire the ability to apply knowledge and understanding to solve important health issues and problems;
  - Acquire awareness on the importance of independent reading and independent study;
  - Develop basic computer skills for accessing information and communicating with peers;
  - Appreciate the unique characteristics of public health practices as a social enterprise;
  - Appreciate the importance of disease prevention and health promotion in our community.

**Course Content:** This course provides an introduction to public health concepts and practice by examining the philosophy, purpose, history, organization, functions, tools, activities and results of public health practice in community. The course also addresses important health issues and problems faced by public health systems. Case studies and a variety intended practice-related exercises serve as a basis for learner participation in real world public health problem-solving simulations.

**Students Assessment:**

The evaluation of the course shall be based on three components: within course and end of course examinations and assignments (quizzes, tutorials etc.).

The weightage of marks given below can generally be used as a guideline in the computation of the final grade.

End of course examination - 50%

Other examination(s) (within course) - 30%

Assignments - 20%

**Course Code: ZLE 506**  
**Course Title: Zoonoses and public health (3 Credits)**  
**Prerequisites: None**

- Course Objectives:** At the completion of this course, the student will be able to:
- Define zoonotic disease and become familiar with the most common routes of transmission from animals to humans.
  - Understand that zoonotic diseases account for five of the six bioterrorism Category A agents and become familiar with these agents.
  - Understand what outbreaks are commonly caused by zoonotic agents.
  - Explain the difference between bioterrorism and agroterrorism, realizing that animal populations as well as human populations may be targets for terrorism.
  - Compare animal disease surveillance systems to human disease surveillance systems.
  - Demonstrate the use of fundamentals of zoonotic diseases and outbreak investigation by working through examples of case studies and previous outbreaks
  - Describe the required public health competencies for environmental health staff.

**Course Content:** This course will introduce zoonotic disease basics, and explore zoonotic diseases as potential bioterrorism agents with emphasis on the Category A zoonotic agents. The topics of food security and agroterrorism, framework for disease surveillance. A brief case study will be conducted by participants on a zoonotic disease investigation in Sri Lanka and the role of environmental health professionals in such activities.

**Students Assessment:**

The evaluation of the course shall be based on three components: within course and end of course examinations and assignments (quizzes, tutorials etc.).

The weightage of marks given below can generally be used as a guideline in the computation of the final grade.

End of course examination - 50%

Other examination(s) (within course) - 30%

Assignments - 20%

**Course Code: ZLE 507****Course Title: Public Health Policy and Law (1 Credit)****Prerequisites: None****Course Objectives:** At the completion of this course, the student will be able to:

- Identify the basic characteristics of public health policy, the steps involved in policy making, and the nature and role of politics in policy making and implementation;
- Understand different roles of various governmental organizations, media, court of law and other groups with interest in formulating and implementing public health policies;
- Describe basic legal framework which underlies public health practices;
- Interpret the development and evolution of major public health policy in the context of the forces that determine policy making;
- Apply these models and knowledge to propose new policies that address significant health concerns.

**Course Content:** This course is designed to explore the major governmental and legal forces that are involved in public health policy in Sri Lanka. In addition, knowledge on the roles of media, public and court of law in developing new policy and implementation will be imparted.**Students Assessment:**

The evaluation of the course shall be based on three components: within course and end of course examinations and assignments (quizzes, tutorials etc.).

The weightage of marks given below can generally be used as a guideline in the computation of the final grade.

End of course examination - 50%

Other examination(s) (within course) - 30%

Assignments - 20%

**Course Code: ZLE 508****Course Title: Infectious Disease Surveillance and Outbreak Investigation (2Credits)****Prerequisites: None****Course Objectives:** At the completion of this course, the student will be able to:

- Develop skills related to the investigation of communicable disease outbreak affecting their country.
- Plan and conduct a descriptive analysis of an outbreak: create epidemic curves, line-listing and summary tables of characteristics and maps with distribution of cases (spot maps or incidence maps)
- Choose between different designs to conduct an analytical epidemiological investigation of an outbreak
- Communicate the results of an outbreak investigation

**Course Content:** This course is designed to impart knowledge on introduction to outbreak investigation, disease surveillance, cohort and case-control studies, developing questionnaires, data entry and validation, processing, descriptive epidemiology, analysis of time characteristics (epidemic curve), analysis of place characteristics (mapping of cases using GIS), analytical epidemiology, bivariate analysis, analytical epidemiology, stratified analysis, analytical epidemiology and to introduce the participant to multivariate analysis.

**Students Assessment:**

The evaluation of the course shall be based on three components: within course and end of course examinations and assignments (quizzes, tutorials etc.).

The weightage of marks given below can generally be used as a guideline in the computation of the final grade.

End of course examination - 50%

Other examination(s) (within course) - 30%

Assignments - 20%

**Course Code: ZLE 509**

**Course Title: Bioinvasions, Bioterrorism Biosecurity, and Public Health (3 Credits)**

**Prerequisites: None**

**Course Objectives:** At the completion of this course, the student will be able to

- Understand emerging public health and safety issues
- analysis, evaluation, and solutions for homeland security health threats that imperil our citizens and those who must respond to preserve their health
- translate new ideas into effective solutions that address country-based health security needs

plan, train and serve in executive leadership, public health, hospital and emergency preparedness in local and international settings.

**Course Content:** This course is designed to study the significance of biological invasions: high profile and potentially devastating consequences. Impacts of bioinvasions on human health, agriculture, infrastructure and the environment will be discussed. A comprehensive approach to biosecurity, bioterrorism, and invasive alien species of plants will be emphasized. Prevention, early detection and methods of rapid response to situations will be discussed. The role of scientific community, industry and the public in ensuring environmental and community safety will also be discussed.

**Students Assessment:**

The evaluation of the course shall be based on three components: within course and end of course examinations and assignments (quizzes, tutorials etc.).

The weightage of marks given below can generally be used as a guideline in the computation of the final grade.

End of course examination - 50%

Other examination(s) (within course) - 30%

Assignments - 20%

**Course Code: ZLE 510**

**Course Title: Biostatistics and Statistical Applications in Health Sector (2 Credits)**

**Prerequisites: None**

**Course Objectives:** At the completion of this course, the student will be able to:

- Recognize research questions which are appropriate for statistical analysis;

- Define research questions with the statement of the null and research hypotheses;
- Distinguish between parametric and non-parametric data;
- Determine which statistical procedure is appropriate for a specific research question;
- Apply the selected statistical procedure to the data available;
- Analyze the statistical results;
- Determine if the results are statistically significant in order to accept or reject the research hypothesis

**Course Content:** This is an elementary course in statistical methods applied to health-related problems. The statistical issues encountered by public health professionals will generally be health-related. For public health professionals, knowledge of statistical procedures and terminology is essential for understanding research articles that present new information in areas of expertise and for conducting research studies. Those details will be taught, discussed and exercised.

**Students Assessment:**

The evaluation of the course shall be based on three components: within course and end of course examinations and assignments (quizzes, tutorials etc.).

The weightage of marks given below can generally be used as a guideline in the computation of the final grade.

End of course examination - 50%

Other examination(s) (within course) - 30%

Assignments - 20%

**Course Code: ZLE 511**

**Course Title: Health Care Systems: Management & Evaluation Techniques (2 credits)**

**Prerequisites: None**

**Course objectives:** At the completion of the course, the student will be able to identify strengths and weaknesses of health monitoring and evaluation systems and make positive constructive remarks for potential upgrading of such systems.

**Course Content:** Performance monitoring and management of health care systems, effectiveness evaluation of health management systems to improve its efficiency while enhancing staff satisfaction. The content of the course includes motivation, knowledge management, managing diversity, leadership, recruitment and organizational culture, the design of evaluations, information on the theoretical underpinnings of evaluation strategies and examples from practice.

**Students Assessment:**

The evaluation of the course shall be based on three components: within course and end of course examinations and assignments (quizzes, tutorials etc.).

The weightage of marks given below can generally be used as a guideline in the computation of the final grade.

End of course examination - 50%

Other examination(s) (within course) - 30%

Assignments - 20%

**Course Code: ZLE 512**

**Course Title: Sociology of Health and Illness & Health Promotion (1 Credit)**

**Prerequisites: None**

**Course objectives:** At the end of the course, the student will be able to identify sociological aspects of current health monitoring systems so that they could possibly be improved for the best ability of the staff and the patient/client.

**Course Content::** An introduction to sociological perspectives on health and illness, social patterns of health and illness and possible explanations; responses to health and illness by individuals, families, lay contacts and professionals; and the social processes by which some experience come to be defined and treated as illness while others do not; an approach to health promotion encompassing social and political action to address inequalities in health as well as health education, major issues in health promotion planning, implementation and evaluation from a number of perspectives including psychology, education, epidemiology and sociology

**Students Assessment:**

The evaluation of the course shall be based on three components: within course and end of course examinations and assignments (quizzes, tutorials etc.).

The weightage of marks given below can generally be used as a guideline in the computation of the final grade.

End of course examination - 50%

Other examination(s) (within course) - 30%

Assignments - 20%

**Course Code: ZLE 513**

**Course Title: Research Methodology, Scientific Writing, and Seminar (2 credits)**

**Prerequisites: None**

**Course objectives:** At the end of the course, the student will be able to apply appropriate data collection and analytical methods in epidemiological and public health related research. In addition, they should also be able to present the problem to a statistician, if and when required. Furthermore, they will also acquire the ability to properly document the findings and also the present it both in writing and verbally.

**Course Content:** In this course, the nature and concepts of research, types of research and tools of research, research design and conceptualization, causality, survey research and data collection techniques, strategies for data analysis and their applications, scientific writing and writing research reports, scientific papers and dissertations, preparing presentations, preparation of bibliography; information gathering through internet and use of electronic resources will be highlighted.

Each student is required to present a seminar based on review of literature on a current development in the area of epidemiology.

**Students Assessment:**

The evaluation of the course shall be based on three components: within course and end of course examinations and assignments (quizzes, tutorials etc.).

The weightage of marks given below can generally be used as a guideline in the computation of the final grade.

End of course examination - 50%

Other examination(s) (within course) - 30%

Assignments - 20%

**Course Code: ZLE 514**  
**Course Title: Independent Study (1 Credit)**  
**Prerequisites: None**

**Course Objectives :** The aim of this study is to provide students with an opportunity to apply knowledge and skills gained during the course to carry out an individual and an independent, reasonably small scale project.

**Course Content:** The project will include two components, one being a literature review and the other, a scientific report. Each student will be guided by an expert in the relevant field of study.

**Students Assessment:**

The evaluation of the course shall be based on two components

Oral presentation – 40

Report – 60

## 7. Assessment

### Evaluation Procedure of the Programme

Course work and research projects of the MSc programme will be evaluated as follows.

#### Evaluation of Course work

For all courses a minimum of 80% attendance is expected. The scheme of the evaluation of the courses is given under each course.

Based on the scheme given, the overall performance of a student in a given course shall be evaluated by the respective instructor(s) and a grade will be assigned. The minimum grade a student should achieve to pass a course is C. Students will be informed of the evaluation scheme by the instructor at the beginning of a given course.

#### Grade Points and Grade Point Average (GPA)

The Grade Point Average (GPA) will be computed using the grades assigned for compulsory courses and optional courses, taken for credit. Research project and seminar will be evaluated on a pass/fail basis.

Audited courses will be marked as ‘AU’ on the transcript upon certification by the relevant instructor that the student has satisfied the 80% attendance requirement.

On completion of the end of course examination the instructor(s) is/are required to hand over the grades of a given course to the programme coordinator who will assign the Grade Points using the following table:

Grade	Grade Point
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
F	0.0

The Grade Point Average (GPA) will be computed using the formula:

$$\text{GPA} = \frac{\sum c_i g_i}{\sum c_i} \quad \text{where } c_i = \text{number of credit units for the } i^{\text{th}} \text{ course, and} \\ g_i = \text{grade point for the } i^{\text{th}} \text{ course}$$

### **Evaluation of Research Project**

Research project will be evaluated on the basis of a written report (M.Sc. project report) and oral presentation.

#### ***Initial Submission of Project Report***

After completing the research project, two copies of the project report (in temporarily bound form) should be submitted, in the first instance, through the supervisor/s, the M.Sc. programme co-ordinator and the Chairman of the relevant Board of Study to the Director, PGIS. The supervisor/s is/are expected to certify that it is of acceptable standard as required by the PGIS by signing and forwarding the form obtainable from the PGIS office.

#### ***Evaluation of Project Report***

The Director shall send a copy of the project report to the examiner recommended by the relevant Board of Study for evaluation. The examiner, wherever possible, shall be external to the place where the research work was carried out. The examiner will send the evaluation report to the Director of the PGIS. The report of the examiner will then be sent to Chairman/Board of Study so that the candidate will be informed through the programme coordinator and the supervisor/s about corrections and/or modifications to be effected to the project report, if any, as suggested by the examiner.

#### ***Oral Examination***

If the project has been evaluated favorably by the examiner, the Board of Study and the Programme Coordinator will make arrangements to hold an oral examination. In cases where major revisions are recommended, oral examination may be held after the revised report has been favorably, re-examined by the examiner.

#### ***Constitution of Panel of Examiners:***

1. Chairman of the relevant Board of Study (Chairman of the Panel)  
(Where the Chairman of the Board of Study is a supervisor or if he is not available, the Director or his nominee shall be the Chairman of the Panel)
2. Coordinator/s of the M.Sc. programme
3. Two examiners (including the examiner of project report) per candidate appointed by the relevant Board of Study
4. The Supervisor/s shall be present as observer/s

The panel of examiners will submit a report on the suitability of the candidate for the award of the degree. The supervisor, with necessary instructions and a copy of the examiners' report (names of the examiners should not be disclosed) will hand over the project report back to the candidate for suggested revisions, if any.

#### ***Final Submission of Project Report***

Four or more copies (depending on the number of supervisors) of the project report in the permanently bound form, with revisions, if any, prepared according to the PGIS guidelines should be submitted through the Supervisor/s, the M.Sc. programme co-ordinator and Chairman of the relevant Board of Study to the Director, PGIS within the specified period of time recommended by the panel of examiners for consideration by the Results Board. When the candidate submits the project report,

the supervisor/s is/are expected to certify that corrections, revisions etc., if any, have been properly effected by the candidate by duly signing the form obtainable from the PGIS office.

### ***Award of the M.Sc. Degree/Diploma***

The M.Sc. Degree may be awarded to a candidate who has satisfied the following:

- i. admission requirements
- ii. accepted by the PGIS as a candidate for the M.Sc. programme
- iii. duly registered and paid fees for the prescribed duration of the programme
- iv. obtained at least a C in each course taken for credit and attained a final GPA of 3.00 or above for course work
- v. satisfactorily completed the research component and any other requirements, as specified

The Postgraduate Diploma may be awarded to a candidate who has satisfied the requirements (i) to (iii) above, satisfactorily completed any other requirements specified by the Board of Study and obtained a final GPA in the range of 2.75 - 2.99 for course work.

Students who reach a final GPA of 3.00 or above but do not wish to continue with the research project or fail the research project are only eligible for the award of the Diploma.

### ***Release of Final Results***

The PGIS will call a meeting of the Results Board to consider the award of the degree to the candidate. The Results Board will release the final results subject to confirmation by the Board of Management of the PGIS and the Senate of the University of Peradeniya.

Constitution of the Results Board:

1. Director/PGIS or his nominee (Chairman)
2. Chairman of the relevant Board of Study or his nominee
3. Secretary of the relevant Board of Study
4. Co-ordinator/s of the M.Sc. programme

### ***Transcript***

Duly certified transcript/s of a student's academic record will be issued on receipt of an application with the prescribed fee.

## **8. PANEL OF TEACHERS**

Dr. A. Dangolla, Department of Veterinary Clinical Studies, Faculty of Veterinary Medicine & Animal Sciences, University of Peradeniya  
*BVSc (Sri Lanka), Dip.Vet.Epid. (Finland), Ph.D. (Denmark)*

Dr. S. Dharmaratne, Department of Community Medicine, Faculty of Medicine, University of Peradeniya  
*MBBS (Sri Lanka), M.Sc. (Sri Lanka), MD (Sri Lanka)*

Prof. O.A. Ileperuma, Department of Chemistry, Faculty of Science, University of Peradeniya  
*B.Sc. (Cey.), Ph.D. (Arizona)*

Mrs. S. Ileperuma, Senior Assistant Librarian, Science Library, University of Peradeniya  
*B.Sc. (Cey.), MLS (Colombo)*

Dr. A. Jayasinghe, Department of Community Med., Faculty of Medicine, University of Peradeniya  
*MBBS (Sri Lanka), M.Sc. (London), DCH (London), FRCPH (UK), FRCP (London)*

Dr. R. Kalupahana, Department of Veterinary Public Health and Pharmacology, Faculty of Veterinary Med. & Animal Sciences, University of Peradeniya  
*BVSc (Sri Lanka), Ph.D. (Cantab)*

Dr. P.V.R. Kumarasiri, Department of Community Medicine, Faculty of Medicine, University of Peradeniya  
*MBBS (Sri Lanka), MD (Sri Lanka)*

Prof. P. Wijekoon, Department of Statistics & Computer Science, Faculty of Science, University of Peradeniya  
*B.Sc. (Kel.), Ph.D. (Dortmund)*

Dr. S.K. Yatigammana, Department of Zoology, Faculty of Science, University of Peradeniya  
*B.Sc. (Perad.), M.Sc. (Perad.), Ph.D. (Canada)*

## VISITING LECTURERS

- Dr. W.G.A Dissanayake, Regional Director /Health Services, Matale  
*MBBS (Sri Lanka), M.Sc. (Sri Lanka)*
- Dr. S.A.K. Gamage, Regional Director/Health Services, Kandy  
*MBBS (Sri Lanka), M.Sc. (Sri Lanka)*
- Dr. S. Ginige, Consultant in Community Medicine, Epidemiology Unit, Ministry of Healthcare and Nutrition, Colombo *MBBS, MSc, MD*
- Dr. G. Jayakody, Provincial Director/Health Services, Kandy  
*MD (Russia), M.Sc. (Sri Lanka), MD (Sri Lanka)*
- Dr. S. Samarage, Former Deputy Director-General (Planning), Ministry of Healthcare & Nutrition, Colombo *MBBS, MPH, MD*
- Dr. A. Siribaddana, Consultant Chest Physician, General Hospital, Kandy  
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