



## SHORT COURSE ON MULTIVARIATE DATA ANALYSIS

23 – 25 March 2015

### Board of Study in Biostatistics Postgraduate Institute of Agriculture (PGIA) University of Peradeniya

#### INTRODUCTION

Multivariate data analysis comprises a set of statistical methods dedicated to the analysis of data with more than one variable. For results to be reliable and valid, multivariate data collection and analysis should be based on correct statistical principles.

Due to widespread use and increasing importance of multivariate statistical methods for analyzing complicated data, it is essential that researchers and users obtain a firm understanding of the philosophical basis and the principles of multivariate statistical methods as well as a broad knowledge of analyzing multivariate data.

#### COURSE OBJECTIVE

The short course offered by the Board of Study in Biostatistics, Postgraduate Institute of Agriculture (PGIA) will provide a broad knowledge and skills of multivariate statistical methods for analyzing multivariate data for a wide variety of academic disciplines including economics, social sciences, agriculture, medicine, veterinary, engineering, natural and physical sciences.

The course comprises of lectures followed by practicals where participants will get hands-on experience in analysing a wide variety of multivariate data using statistical software SAS®.

#### TARGET GROUP

The short course is aimed at mid career professionals in universities, research institutes, government and nongovernment organizations and industry. Participants should preferably have knowledge of basic statistics.

#### COURSE CONTENTS

Introduction to Multivariate Statistics; Multiple Regression; Multivariate Analysis of Variance (MANOVA); Principal Component Analysis; Factor Analysis; Cluster Analysis; Discriminant Analysis; Canonical Correlation Analysis.

#### COURSE DURATION AND VENUE

Three days (23-25 March 2015) from 8.30 AM to 4.30 PM. **Venue:** Postgraduate Institute of Agriculture (PGIA), Old Galaha Road, University of Peradeniya, Peradeniya.

#### COURSE FEE

Rs. 10,000 per participant (includes tea, lunch and course material). Accommodation will not be provided.

#### RESOURCE PERSONS

The following members of the Board of Study in Biostatistics will serve as resource persons for the short course.

Prof. R. O. Thattil (B.Sc., M.Sc., Ph.D)

Prof. S. Samita (B.Sc., M.Phil., Ph.D)

Dr. B. L. Peiris (B.Sc., M.Sc., Ph.D)

Dr. T. Sivananthawerl (B.Sc., M.Sc., Ph.D)

Dr. L. D. B. Suriyagoda (B.Sc., M.Sc., Ph.D)

#### APPLICATION FORMS

Application forms can also be obtained from the PGIA office or downloaded from the PGIA website ([www.pgia.ac.lk](http://www.pgia.ac.lk)) or the University of Peradeniya website ([www.pdn.ac.lk](http://www.pdn.ac.lk)). The course fee can be paid 1). by a cheque (To: Director, Postgraduate Institute of Agriculture) or 2). at any branch of the Peoples Bank (To: Current Account No: 057-1-001-3-1338027, Peradeniya Branch) or 3). in person at the Shroff Counter at the PGIA.

The completed application forms along with a cheque / copy of the payment of full course fee should be sent by **18<sup>th</sup> March 2015** to:

Assistant Registrar, Postgraduate Institute of Agriculture (PGIA), P. O. BOX 55, Old Galaha Road, University of Peradeniya, Peradeniya.

Tel: 081-2385517 Fax: 081-2388318

Enrolment is limited to 30 participants on a first-come, first-serve basis.

#### For Further Details Contact

Dr. B. L. Peiris, Course Coordinator and Chairman, Board Study in Biostatistics, Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya.

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E-mail: laknathp@pdn.ac.lk

**Prof. S. Samita**

**Director, Postgraduate Institute of Agriculture (PGIA)**

**University of Peradeniya**