



**Institute of Mathematics and Management, Sri Lanka**

**Diploma in Applied Statistics**

**&**

**Research Methods**

**Intake - 1**

**Course Commences: 27<sup>th</sup> March 2022**

## **Introduction**

Statistics plays a vital role in scientific research. It is the foundation of research and management of; Physical Sciences, Biological Sciences, Medical & Healthcare, Engineering, Meteorology, Management, Business, Finance, Economics and other Social Sciences and more. Yet, most of the studies are not really benefited to the society due to “**Misuse of Statistics**”. Lack of knowledge in fundamentals and real-life applications are the main reasons for “misuse”. The Diploma in Applied Statistics & Research Methods is designed to fill the knowledge gap and pave the path for efficient and effective research culture.

**Who would benefit:** Academics, Researchers, PG students, and Other Professionals

**Entry Requirements:** Bachelor Degree or Equivalent qualifications

**How to Apply:** Send (via-e-mail) the certificates of academic and/or professional qualifications along with the duly completed application

**Medium of Instructions:** English

## Course Outline

### Semester - 1

Code	Subject	Hours	Credits
D-AS & RM 101	Mathematical Methods for Statistics	15	1
D-AS & RM 102	Basic Statistics	15	1
D-AS & RM 103	Research Methods	15	1
D-AS & RM 104	Statistical Inference-I	15	1
D-AS & RM 105	Correlation Analysis	15	1
D-AS & RM 106	Research Critique	15	1
		<b>90</b>	<b>6</b>

### Semester - 2

Code	Subject	Hours	Credits
D-AS & RM 201	Design & Analysis of Experiments	15	1
D-AS & RM 201	Probability & Distributions	15	1
D-AS & RM 203	Statistical Inference-II	15	1
D-AS & RM 204	Regression Analysis	30	2
D-AS & RM 205	Time Series Analysis	45	3
		<b>120</b>	<b>8</b>

## Semester - 3

Code	Subject	Hours	Credits
D-AS & RM 301	R Programming	15	1
D-AS & RM 302	Econometric Modelling	15	1
D-AS & RM 303	Infectious Disease Modelling	30	2
D-AS & RM 304	Financial Market Analysis & Forecasting	30	2
D-AS & RM 305	Industrial Mathematics	45	3
		<b>135</b>	<b>9</b>

## Semester - 4

Code	Subject	Hours	Credits
D-AS & RM 401	Research Project	150	12

**Total Credits: 35**

**Duration: One Year**

**Course Fee: LKR 120,000**

**Registration Fee: LKR 2000**

**Payment Options:**

- Pay in full before the course commencement
- Pay in 04 equal installments (LKR 30,000 \*4) before commencement of each semester

## Pathways:

- a. Certificate in Applied Statistics & Research Methods will be awarded, only if the Semester 1 and Semester 2 are completed
- b. Diploma in Applied Statistics & Research Methods will be awarded for the completion of all 04 semesters

**Mode of Conduct: Online via Zoom**

**Lectures & Practical on Sunday 09:00 to 16:00**

## Contact:

Dr. (Mrs.) W. G. Samanthi Konarasinghe (*PhD, MSc, MBA, PG Dip, BSc, MASA, MSSA, MIASSL, MNSF*), Sri Lanka

**0777 581 601 , 0112415537**

Website: [www.imathm.edu.lk](http://www.imathm.edu.lk)

E-mail: [samanthi@imathm.edu.lk](mailto:samanthi@imathm.edu.lk), [info@imathm.edu.lk](mailto:info@imathm.edu.lk) ,

WhatsApp: **+94776068991**

