



Institute of Mathematics and Management, Sri Lanka

SHORT COURSE ON INDUSTRIAL MATHEMATICS

Intake II

Introduction

This course is a foundation to develop mathematical and computing skills related to the fields of,; Physical Science; Biological Science; Engineering; Medicine & Healthcare; Management; Economics; Finance, Social Sciences and more. Each topic is viewed in theoretical and practical aspect with the help of MATLAB software and programming.

Who would benefit: Undergraduates/ Postgraduates, Teachers, Lecturers, Researchers, Economists etc.

Selection Criterion: Selections are based on the Academic/Professional background of the applicant and the objectives for following the course

Course Duration: 30 hours

Medium of Instructions: English

Mode of Conduct: Online (Zoom)

**Course Fee: Domestic Students - LKR 18,000
International Students - USD 200**

Course Commences: Notify Later (Lectures on Tuesday and Thursday 18:00- 20.30 Indian Standard Time-IST)

Course Outline

- Functions & Graphs
- Equations and Inequalities
- Getting started with MATLAB
- Solving equations by MATLAB
- Differentiation
- Integration
- Partial Differentiation
- Optimization
- Differential Equations
- Solving ordinary differential equations using MATLAB
- Mathematical Modeling
- Foundation Statistics

Resource Persons:

Dr. (Mrs.) W. G. Samanthi Konarasinghe (*PhD, MSc, MBA, PG Dip, BSc, MASA, MIASSL, MNSF*), Sri Lanka
Prof. Dr. K. Srinivasa Rao (*PhD, MPhil, MSc, PG Dip, BSc*), India

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