



Institute of Mathematics and Management, Sri Lanka

SHORT COURSE ON MATHEMATICAL METHODS FOR ECONOMICS & FINANCE

Intake I

Introduction

The main aim of this course is to equip you with the mathematical tools required for academic and research in the fields of, Economics; Finance; Accounting, Banking, Management; Social Sciences and related disciplines. The course is designed to develop MATLAB programming skills to solve mathematical problems.

Who would benefit: Academics, Researchers, Professionals, and Undergraduate / Postgraduate students.

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

Medium of Instructions: English

Course Duration: 45 hours

Course Fee: Domestic Students - LKR 27,000/=
International Students - USD 300

Course Commences: 10th May 2021 (Lectures on Saturday 16:00- 19.00 Indian Standard Time)

Mode of Conduct: Online (Zoom)

Course Outline

- Functions and Graphs (Polynomial, Exponential, Trigonometrical)
- Equations and Inequalities
- Applications of functions, equations and graphs in Economics
- Getting started with MATLAB
- Solving equations by MATLAB
- Rules of Differentiation
- Applications of Differentiation
- Rules of Integration
- Applications of Integration
- Functions of several variables
- Partial Differentiation and Applications
- Matrices and Linear Equations
- Applications of Matrices and Linear Equations
- Solving Matrices and Systems of Equations by MATLAB
- Sequences and Series
- Introduction to Financial Mathematics
- Simple and Compound Interest
- Annuities
- Loan Repayment (Amortization method, Sinking Fund method)

Resource Persons:

Dr. (Mrs.) W. G. Samantha 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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