



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

## **SHORT COURSE ON MATLAB AND APPLICATIONS**

### **Introduction**

This course will be hands-on and driven by examples, using real life data sets from the fields of; Engineering, Physical Sciences, Business & Economics, Finance, Tourism Management, Life Sciences & Healthcare, Meteorology and more, but previous knowledge in MATLAB is not required.

**To whom:** The intended participants for the course are students, academicians, researchers and practitioners of data-driven environment

**Medium of Instructions:** English

**Course Duration:** 30 hours (4 hours per week, either on weekends/weekdays)

**Course Fee:** USD 100 (**50% discount for participants from Sri Lanka, India and low income countries**)

**Course Commences:** **02<sup>nd</sup> December 2020**

**Mode of Conduct:** **Online (Zoom or Google Meet)**

### **Course Outline**

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|----------------------------------|---|
| ✚ Introduction to MATLAB         | ✚ Introduction to Statistical Methods in MATLAB |
| ✚ Plotting Techniques            | ✚ Hypothesis testing and ANOVA                  |
| ✚ MATLAB Programming             | ✚ Correlation and Regression Analysis           |
| ✚ Solving Differential Equations | ✚ Time Series Analysis and Forecasting          |

### **Resource Persons:**

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

Dr. K. Srinivasa Rao (*PhD, MPhil, MSc, PG Dip, BSc*), India

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