

Special Promotion

Join us as we introduce MATLAB, a high-level language and interactive environment for numerical computation, visualization and programming.

**UKM students**  
(Degree, Master, PhD)

**RM650\***

3-days program

Breakfast and lunch will be provided

Notes and certificate will be provided

Limited up to 20 participants

Payment shall be made through online transaction (or other ways) to the following details:

Account No: **8002234307**

Bank: **CIMB Bank Bhd**

Name: **Universiti Kebangsaan Malaysia**

Recipient reference: **TKS 250**

Payment Details: **PKAS-BDAMW**

Register via link

[bit.ly/PKASBDAMW](https://bit.ly/PKASBDAMW)



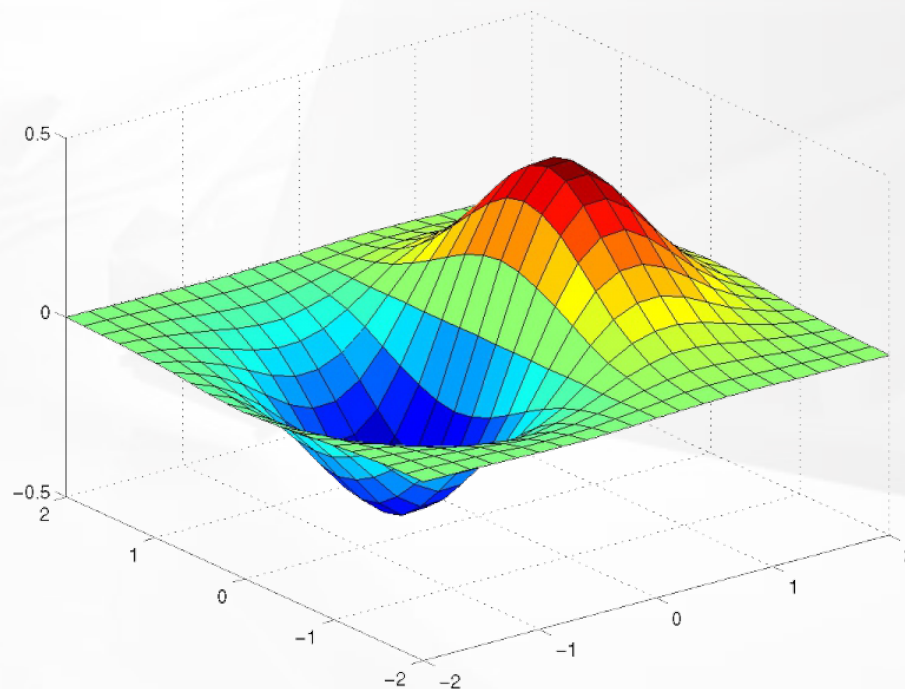
For more information, contact **Ms. Mas Ayu Othman**

+603 – 8921 6600    +6012 – 545 5112    mas.ayu@ukm.edu.my

# BEGINNER

## DATA ANALYTICS

with **MATLAB** workshop



Organized by



Marketed by



SK Innovation Sdn Bhd

# BEGINNER

## DATA ANALYTICS

with MATLAB<sup>®</sup> workshop

## TRAINER



MATLAB is a multi-faceted numerical computing environment and fourth-generation programming language used in various backgrounds of engineering, science, and economics. This workshop will wrap up the basic operations of MATLAB as well fundamentals of MATLAB programming with an emphasis on data analytics. Using data analytics to turn large volumes of complex data into actionable information can help you improve engineering design and decision-making processes. This workshop can take you beyond Microsoft Excel, as you will automate your analysis workflows with thousands of prebuilt mathematical and advanced analysis functions and versatile visualization tools. It will guide you to access data from files and Excel spreadsheets, visualize data and customize figures, as well perform statistical analysis, generate reports and automate workflows.

### OBJECTIVES

- ▶ To introduce scientific computation using MATLAB
- ▶ To apply MATLAB programming language for program writing
- ▶ To apply visualization capabilities of MATLAB for data analyzing and presentation

### SESSION SCHEDULE

<b>Day 1</b>	<ul style="list-style-type: none"><li>- Introduction to MATLAB, user interface, variables and commands</li><li>- Data analysis and visualization with vectors</li></ul>
<b>Day 2</b>	<ul style="list-style-type: none"><li>- Data analysis and visualization with matrices</li><li>- Data organizing and conditional data selection</li></ul>
<b>Day 3</b>	<ul style="list-style-type: none"><li>- Increasing automation with programming constructs</li><li>- Increasing automation with functions</li></ul>

**Abrar Hussein, M.Eng. (on-going)** obtained his B.Eng. degree in Electrical and Electronic Engineering from Chittagong University of Engineering and Technology (CUET), Bangladesh in 2010. He had a one year industry experience where he gained in-depth knowledge in control system for high-tension and low-tension sides of electrical power engineering. He's also been working as a lecturer for undergraduate and diploma level in one of private university in Bangladesh, where his area of teaching was mainly on Digital Signal Processing, Electromagnetic Fields and Waves, Power System. Currently, he is pursuing his MSc. in the Faculty of Engineering and Build Environment, Universiti Kebangsaan Malaysia (UKM), focused in digital signal processing, with an emphasis on speech signal processing. His research interests include Multimedia Signal Processing, Image Processing, Rehabilitation and Healthcare Engineering, Embedded and virtual system for assistive technology. He has been engaged in MATLAB Fundamental Tool training for the undergraduate students of UKM arranged by PKAS, FKAB, UKM.



**Prof. Dr. Norbahiah Misran**  
Advisor

**Dr. Kalaivani Chellappan**  
Chief of Director

**Ms. Mas Ayu Othman**  
Secretary

**Mr. Muhammad Syafiq Abdul Razak**  
Treasurer

MATLAB