

# HOW TO TRAIN ARTIFICIAL NEURAL NETWORK (ANN) USING MATLAB TO PERFORM DATA PREDICTION: A BIG DATA CRASH COURSE APPROACH



**Training Dates: Please refer to our training calendar  
Innovacia Training Centre, Shah Alam, Selangor  
(Note: We can also cater for clients' proposed dates and venues. T&C apply)**

## The Modules

This course teaches participants on how ANN works on predicting the required outputs from certain datasets. Using **MATLAB software**, the **data collection, data normalization and eventually the output prediction** can be carried out by training and validating the dataset. By modifying the ANN architecture configurations, learning algorithm, ANN training options and parameters, participants will have the know-how on increasing the output prediction accuracy. Participant will also learn on how to set the percentage of training and validation data to increase the output accuracy.

## Who Should Attend?

An essential training for manufacturers, service providers, researchers, lecturers, and others interested in data prediction.

## Objectives/Benefits of Training

Upon completion of the course, participants will be able to:

- Understand the neuron network concept, its learning algorithm, activation function and**
- Obtain hands-on knowledge on using MATLAB on performing ANN for data prediction**
- Apply the knowledge gained during training with actual engineering/management/marketing data**

## Your Investment

RM988/pax or 10% discount for 3 or more participants from the same company.  
The training fee is claimable under SBL HRDF. Please refer to your Training Manager for guides.  
Inclusive of training notes and certificate. Refreshments & Lunch will also be provided.  
Please bring your own laptop.

## The Facilitator

**Syahrul Fithry Bin Senin** has 15 years of experience in academics fields majoring in Structural Engineering at UiTM Cawangan Pulau Pinang. He started his career by involving in structural and civil engineering consultants for Kesh Consult Sdn. Bhd and Perunding Zar Sdn. Bhd from 1997 to 1999. He is actively involved using ANN model predictions in his academic seminars, Big Data consultancy and in research innovation works.

# TRAINING REGISTRATION FORM



Please provide all details and send the completed form and proof of payment to [innovacia.sfi@gmail.com](mailto:innovacia.sfi@gmail.com) / 012-305 8086. Registration Dateline: 2 weeks before each event. Thank you and enjoy the training!

Module: \_\_\_\_\_ Training Date: \_\_\_\_\_

No	Name of Participant	Designation	Academic Qualifications	Years Technically Involved in Building Construction	Mobile Phone No.	Email
1						
2						
3						

Total = RM \_\_\_\_\_ / pax x \_\_\_\_\_ nos. of pax = RM \_\_\_\_\_. Attached is the proof of payment to CIMB Islamic Acc No: 8600 22 9695 Innovacia Sdn Bhd.

Contact Person Name: \_\_\_\_\_ Company: \_\_\_\_\_

Hphone: \_\_\_\_\_ Email: \_\_\_\_\_ Address: \_\_\_\_\_

## About Innovacia Sdn Bhd – CIDB & HRDF Registered Training Provider

### IBSxBIM

**Innovacia** specialises in Prefabricated Construction Technology (Industrialised Building Systems, IBS), Building Information Modelling (BIM), Big Data and other IR4.0 solutions for Construction, Manufacturing and Professional Services.

The company offers:

1. Training: Making Construction Green with IBS & Other IR4.0 Solutions, How to Perform Data Prediction: A Big Data Crash Course Approach , Building Information Modelling (BIM) Made Simple, Precast Concrete Design Workshop Part 1 & Part 2, IBS Shop Drawings Using CAD/BIM, BIM-based IBS Score Submission, Reinforced Concrete Design to Eurocode 2 (EC2), Development of Android Mobile Apps & Database, Leading & Managing Change in a VUCA World, and many other topics
2. Research: Construction & Prefab / IBS Advisory (Product & Project Technical Assessment, Industry Research, Training Module Development), Customised Software Development
3. Publications: *binaTECH* – Construction Technology & Living Trends Magazine, Customised Publications
4. ICT Solutions: *TiffinBIM* - Affordable CAD/BIM Software, *axdea* (BIM-based IBS Score Calculator), *Innovacia Mobile* (Construction & Other Productivity Apps), *Innovacia VR/AR* (Virtual & Augmented Reality Solutions)

#### FOR EVENT ENQUIRIES:

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