



FMM Institute



Internet of Things Implementation Project

Date: June 20 - 24, 2022 • 9:00 AM to 5:00 PM

Venue: Wisma FMM, Bandar Sri Damansara
kuala Lumpur

Who Should Attend: Engineers, Maintenance Officers, Technicians, Production and R&D Staff who is considering IOT applications with basic computer knowledge

Fees:

FMM Member	RM5,300 per participant (inclusive of 6% Service Tax)
Non Member	RM5,830 per participant (inclusive of 6% Service Tax)

Fee is inclusive of meals, certificate of attendance and practical equipment. Participants should bring their own laptop (Windows 10 and above) for practical session.



Participants must fulfil the following criterias:

- ✓ Fully vaccinated against Covid-19, and
- ✓ Covid-19 Risk Status in MySejahtera: Low Risk No Symptom.

FMM Institute (475427W)

Wisma FMM, No. 3 Persiaran Dagang, PJU 9, Bandar Sri Damansara, 52200 Kuala Lumpur

Website: www.fmm.edu.my Email: training@fmm.org.my Tel: 603-6286 7200



Course Overview

Industry 4.0 is the current trend of automation and data exchange in manufacturing technologies. It includes cyber-physical systems, the Internet of Things and Cloud Computing. Industry 4.0 creates what has been called a "Smart Factory". Within the modular structured smart factories, cyber-physical systems monitor physical processes, create a virtual copy of the physical world and make decentralised decisions. Over the Internet of Services, both internal and cross-organisational services are offered and used by participants of the value chain. This course introduces the concept of Industry 4.0 and illustrates the implementation of Smart Industry Framework using IOT technology.

Course Objectives

At the end of the programme, participants should be able to:

- differentiate the industry framework
- discuss the technologies involved in Industry 4.0
- design the Industry 4.0 framework through vertical and horizontal integration
- design a Smart Industry framework using IoT through emulator and hardware
- illustrate some scenario of Smart industry in Smart Cities
- Present the design and case study of Smart Industry

Methodology

Lecture, case study, hands-on practical and project implementation

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Bandar Sri Damansara, 52200 Kuala Lumpur
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Course Contents

- Framework of Industry 4.0
- The Evolution of Industry
- From Concept to Reality: Vertical Integration
- From Concept to Reality: Horizontal Integration
- Smart Factory in Smart Cities
- The Role of Smart Factory in Smart Cities
- Hands on Practical on Industry 4.0 Framework Using Emulator
- Introduction to Virtual Machine, Raspberry Pi Emulator, Sensors and Embedded Device Emulator
- Introduction to Python, Cloud and MQTT Connections, and Mobile Applications
- Group Assignment on Industry 4.0 Framework: Embedded Platforms
- Practical on Industry 4.0 Framework: Interfacing An Embedded Device with A Sensor or An Actor
- Practical on Industry 4.0 Framework: Internet Enabled Embedded Systems



*Scan/click to
register online*

For details, registration, and a list of other courses, please visit our website at www.fmm.edu.my. You can also inquire at (603) 6286 7200 or email to Ms Ong Li Choo at lichoo@fmm.org.my.

FACILITATOR

DR. GOH HOCK GUAN

Dr. Goh Hock Guan received his Bachelor of Information Technology majoring in Multimedia from University of Malaya in 2003, Master of Science in Information Technology from Multimedia University in 2006, and Doctor of Philosophy in Electronic and Electrical Engineering from University of Strathclyde, UK in 2014. He is currently an Assistant Professor in Faculty of Information and Communication Technology, Universiti Tunku Abdul Rahman (UTAR).

- Deputy Dean of R&D and Postgraduate Programmes, Faculty of Information and Communication Technology (FICT), Universiti Tunku Abdul Rahman (UTAR).
- Head of Department, Department of Computer and Communication Technology (DCCT), FICT, UTAR, year 2011-2019.
- Research interests include Cognitive Wireless Sensor-Actor Networks, Agriculture/Healthcare/Environmental Monitoring System, Internet of Things and Data Analysis/Processing.
- More than 40 publications and received two Best Paper Awards in 2006 and 2014. Google citations 514, h-index 11, i10-index 13.
- Involved more than 10 industry consultancy projects. One patent in 2015.
- Involved more than 20 research projects with the largest project size £ 4,750,000.
- Delivered 6 concept training on Industry 4.0 for participants from FMM, several companies, universities and public since 2017.

Registration Form

Internet of Things Implementation Project

HRD Corp Programme ID: FMM Institute 10001179565

Date: June 20 - 24, 2022 (9.00 am - 5.00 pm) Venue: Wisma FMM, Bandar Sri Damansara, Kuala Lumpur

The Manager

FMM Institute (475427-W)

Tel: 03-6286 7200 Fax: 03-6277 6712

Email: training@fmm.org.my

FMM Member: RM5,300/ pax
(Inclusive of 6% Service Tax)

Non Member: RM5,830 / pax
(Inclusive of 6% Service Tax)



Dear Madam,

Please register the following participant (s) for the above programme:

(To be completed in BLOCK LETTERS)

1. Name

Designation

Email

Nationality

IC No.

Mobile No.

2. Name

Designation

Email

Nationality

IC No.

Mobile No.

(if space is insufficient, please attach a separate list)

Disclaimer

Registration is on a first-come first-served basis. All cancellations must be made in writing. There will be no charge for cancellation received 14 or more working days before the start of the programme. Cancellation received 7 - 14 working days before the start of the programme is subject to a cancellation fee of 50% of the programme fees. Cancellation received 6 working days and below before the start of the programme is subject to a cancellation fee of 100% of the programme fees. If the participant **fails to attend** the programme or **less than 75% attendance**, the **full programme fees are payable**. However, replacement can be accepted at no additional cost. The FMM Institute reserves the right to change the speaker, reschedule or cancel the programme and all efforts will be taken to inform participants of the changes.

We hereby confirmed that (please tick accordingly):

- We will be claiming from **HRD Corp** and full payment would be made to FMM Institute in the event that no disbursement from HRD Corp under any circumstances.
- We will **NOT BE CLAIMING from HRD Corp**. Payment will be made to account payee **FMM Institute** by cheque or bank transfer to Maybank Account No. 5-14208-14159-0.

Submitted by:

Name

Designation

Email

Tel

Fax

Mobile No.

Company

FMM Membership No.

Address

My Corporate Identity No.

Company Stamp & Signature

Date