

## Workshop: Raspberry Pi for Noobs

Saturday 30<sup>th</sup> June 2018

08:30-12:30

OSCAE.Initiative Laboratory (C24-407)

Faculty of Mechanical Engineering, UTM

### Who Should Attend?:

*“You mean pie, a typo ..., right?” “Like cookies?” “Raspberry flavoured, huh?”*

If you think Strawberry Pie and Raspberry Pi are about taste, or if you are one of those people who haven't a clue as to what Raspberry Pi is, this appreciation workshop is an eye opener.

It introduces **Raspberry Pi 3 (RPi3)** single board computer (SBC) as a versatile, low power, portable computing engine for desktop, scientific and media centre applications. Participants will learn:

- What is **RPi3** and what are its components?
- How to quickly build a computer using **RPi3** SBC
- What role an operating systems plays in a fully functional computer
- What peripherals can be connected to **RPi3**
- On display: RPi-based Data Acquisition System and affordable CCTV using RPi Zero

Participants will also receive hands-on experience sampling and testing **RPi3** in three operating system environments (UbuntuMATE for desktop environment, Raspbian for scientific computing & LibreELEC for media centre) and learn how to adapt the computing tools built around **RPi3** hardware to match his/her future computing needs.

### Fee: RM 455.00 to cover:

- ✓ Raspberry Pi 3 B+ SBC, Power Adapter, HDMI-VGA converter, Sandisk MicroSD, Official Case
- ✓ Installation, configuration & customization of additional software packages tailored for desktop, lightweight scientific & software development workstation (see list)
- ✓ Documentations in PDF

**Seating:** Limited to 15 seats.

**Session 1:** 08:30-10:30

- \* **Raspberry Pi for Noobs**
- \* **Cooking a Pi in minutes**

**Coffee break:** 10:30-11:00

**Session 2:** 11:00-12:30

- \* **Hands-on Session: Experience Desktop Computing, Scientific Computing & Media Centre Application on Raspberry Pi 3**

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### Facilitator:

Dr. Abu Hasan ABDULLAH

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