



POST-ANALYSIS FOR TRANSMISSION ELECTRON MICROSCOPE (JEOL ARM 200F)

19 - 20th JUNE 2017

**UNIT PENGURUSAN MAKMAL UNIVERSITI
(UPMU)**



TENTATIVE PROGRAMME:

19th JUNE 2017 (MONDAY)

- 8:30 am: Registration
9:00 am: Introduction of Post Analysis TEM
By Dr Mohd Zamri Mohd Yusop, FKM
9:30 am: TEM Analysis
By Dr Mohd Zamri Mohd Yusop, FKM
10:30 am: Break
10:45 am: TEM Analysis
12:45 pm: Break
2:30 pm: STEM Analysis
By Dr Muhammad Firdaus Omar, FS
4.30 pm: End

20th JUNE 2017 (TUESDAY)

- 8:30 am: Registration
9:00 am: EDX Analysis
By Dr Muhammad Firdaus Omar, FS
10.30 am: Break
10:45 am: EDX Analysis
11:30 pm: EELS Analysis
12:30 pm: Break
2:30 pm: Diffraction Analysis
By Dr Mohd Zamri Mohd Yusop, FKM
3:30 pm: How to present good data
4.30 pm: End

***Please bring your own laptop during the workshop**

The transmission electron microscope (TEM) is a very powerful instrument for material science. A high energy beam of electrons is penetrate through a very thin sample, and the interactions between the electrons and the atoms can be used to observe features such as the crystal structure and features in the structure like lattice plane, dislocations and grain boundaries. Elemental analysis can also be performed simultaneously. TEM can be used to study the growth of layers, elemental composition and defects in crystalline materials. High resolution TEM can be used to observe the atomic arrangement, dislocation and vacancies in nanomaterial. The analysis not only can be done while observation but more of the analysis can make by using off-line software. This makes post-analysis TEM very important. With this workshop, participant will be teaching how to interpret the data by using off-line software.

WHO SHOULD ATTEND?

- Researchers, engineers, technicians, laboratory assistants and students who works and study on electron microscope, nanostructure, elements and materials characteristics.
- **Compulsory** for those who want to run analysis using TEM at UIRL.
- Those who **already** have TEM results.

REGISTRATION FEE:

19th JUNE 2017 (MONDAY)

Public University Student & Staff: RM150.00
Industry: RM318.00 (Include 6% GST)

20th JUNE 2017 (TUESDAY)

Public University Student & Staff: RM150.00
Industry: RM318.00 (Include 6% GST)

FULL PROGRAM

Public University Student & Staff: RM300.00
Industry: RM636.00

**Including certificate and notes*

**No refreshment provided due to fasting month*

FOR MORE DETAILS:

Mdm Nur Farhana Hasmuni

Phone No: 07-555 7723
Email: nurfarhana@utm.my

Mr Ahmad Muslehuddin Sarun

Phone No: 07-561 0267
Email: a.muslehuddin@utm.my

VENUE:

19/06/2017 – Bilik Software, T03
20/06/2017 – Bilik Software, T03