



# FUNDAMENTALS AND APPLICATIONS OF ELEMENTAL ANALYSIS

UNIVERSITY INDUSTRY RESEARCH LABORATORY, UTM JOHOR BAHRU, MALAYSIA  
14-15 NOVEMBER 2016

## INTRODUCTION



CHNS elemental analyzers Vario Micro Cube provide a means for the rapid determination of carbon, hydrogen, nitrogen and sulphur in organic matrices and other types of materials. They are capable of handling a wide variety of sample types, including solids, liquids, volatile and viscous samples, in the fields of pharmaceuticals, polymers, chemicals, environment, food and energy.

## REGISTRATION FEE

Category	Fee (RM)
Academic Staff / Student	250.00
Industry	350.00

[Payment can be done by using Vat / Cash / EFT]

## TENTATIVE PROGRAMME

*14 November 2016 (Monday)*

- 8.30 - 8.45 a.m. : Registration
- 9.00 - 10.00 a.m. : Session 1 :  
Introduction to Elemental Analysis [Theory]
- 10.00 - 10.30 a.m. : Tea Break
- 10.30 - 1.00 p.m. : Session 2 :  
Instrumentation and Applications of Elementar Vario Micro Cube  
Latest Advancement on Elementar products.
- 1.00 - 2.30 p.m. : Lunch Break
- 2.30 - 4.30 p.m. : Practical 1 :  
CHNS Analysis of Liquid Samples
- 4.30 - 5.00 p.m. : Tea Break / End of Day 1

*15 November 2016 (Tuesday)*

- 9.00 - 10.00 a.m. : Session 3:  
Samples Homogenization and Pulverization [Retsch]
- 10.00 - 10.30 a.m. : Tea Break
- 10.30 - 1.00 p.m. : Practical 2 :  
CHNS Analysis of Powder Samples
- 1.00 - 2.30 p.m. : Lunch Break
- 2.30 - 4.30 p.m. : Session 4 :  
Maintenance and Good Laboratory Practice.
- 4.30 - 5.00 p.m. : Tea Break/ End Of Day 2.

## VENUE

Surface Science Laboratory, Block TO3, UIRL, UTM Johor Bahru

## CONTACT US

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**REGISTRATION FORM**

Secretariat  
Fundamentals and Applications of Elemental Analysis Seminar  
University Industry Research Laboratory  
UTM Johor Bahru  
**(Attn: Mdm Nurleyana Salleh)**

**FUNDAMENTALS AND APPLICATIONS OF ELEMENTAL ANALYSIS SEMINAR  
14 & 15 NOVEMBER 2016**

Prof/Dr/Mr/Mrs/Ms .....

Faculty/Department .....

Matric No. .... H/P No. ....

E-mail .....

Name of Supervisor .....

Supervisor's Email .... H/P No. ....

Research Vot No. ....

Payment Mode  Vot Transfer  Cash  Electronic Fund Transfer (EFT)

.....

Signature of Participant

Date

Supervisor's Approval I hereby declare that this registration fee can be paid through vot transfer from Vot No. .... to Vot Tabung Kerja Perundingan Makmal, Caj Penggunaan Peralatan Makmal dan Sampel JB (A.J091600.5500.07529)

.....

Signature

.....

Date

**\*\*\*IMPORTANT NOTICE\*\*\***

1. One form for each registration.
2. Kindly submit registration form **before 9 November 2016**.
3. All registration fees must be **FULLY** paid before commencement of the course. No invoice will be issued. UIRL reserves the right to refuse entry for participant(s) who have not paid their registration fees to attend the course.
4. Payment can be done through **Vot Transfer / Cash / Electronic Fund Transfer (EFT) :**
  - a) **Vot Transfer :**  
**To Vot Tabung Kerja Perundingan Makmal, Caj Penggunaan Peralatan Makmal dan Sampel JB (A.J091600.5500.07529)**
  - b) **Electronic Fund Transfer (EFT) :**  
**CIMB BANK BERHAD**  
**BENDAHARI UNIVERSITI TEKNOLOGI MALAYSIA**  
**Account No. : 8006053536**
5. For further information please contact **Mdm Nurleyana Salleh / Mdm Ambiga a/p Gopal (07-5557720)**.

Please send the payment slip via email to : [nurleyana@utm.my](mailto:nurleyana@utm.my) / [ambiga@utm.my](mailto:ambiga@utm.my)