## FUNDAMENTAL PHYSICS LAB / MAKMAL FIZIK

## ASAS

## Our Laboratory Members



## LAB COORDINATORS CUM LECTURER IN CHARGE

## Dr. Richard Anak Ritikos

+603-7967 4386 / 4147
richarddr@um.edu.my


| LECTURER IN CHARGE |
| :---: |
| Dr. Lim Lian Kuang |
| $\mathbf{+ 6 0 3 - 7 9 6 7} \mathbf{2 7 3 2}$ / 4395 |
| lim.lk@um.edu.my |



## LAB MANAGER / ASSISTANT SCIENCE OFFICER

Mr. Noor Yussuf bin Othman
+603-7967 4025
nooryussuf1902@um.edu.my

## About our lab

The Fundamental Physics Laboratory is the location where the course SIF2010 Practical Physics 2 (formally known as SMES2171 Fundamental Physics Practical) is being taught. This course focuses on experiments done to teach concepts of fundamental physics in various filed such as Modern Physics, Light and Optics, Electricity and Magnetism. A good example is seen in the determination of Planck's Constant using an experiment setup employing photovoltaic principles. Other experiments include the determination of e/m ratio, study of spectral lines of two electrons systems, polarizability, etc. The laboratory provides a conducive environment for students to conduct experiments and the instructors to facilitate and interact with the students.

## Course Pro Forma

| Course Code | SIF2010 |
| :--- | :--- |
| Course Title | Physics Practical II |
| Course Learning Outcomes | At the end of the course, students are able to: <br> 1. Perform experiments to validate an idea, <br> hypothesis, or theory. <br> 2. Perform analysis on acquired experimental data <br> including statistical analysis, curve-fitting, and <br> error analysis. <br> 3. Analyse experimental data. |
| Soft Skills | Practical, report writing and oral communication |
| Synopsis of Course Contents | Practical classes for experiments in fundamental <br> physics on topics including electricity, magnetism, <br> thermodynamics, optics, spectroscopy, and <br> others. |

## Our Exciting Experiments

Determination of Planck's Constant


Atomic Spectra of Two Electrons System: He \& Hg



Measurement of Contact Between A Sphere \& A Plate



Determination of $\mathrm{E} / \mathrm{M}$ for The Electron


## Where To Find Us???



We are located at Level 4, Block B, Department of Physics, University of Malaya
(Lab Room B418, B419, B421, B422)
(Lab Staff Room : B423)


