



**UPM**  
UNIVERSITI PUTRA MALAYSIA  
SEKELUARGA BANGSA

**INSTITUT NANOSAINS DAN  
NANOTEKNOLOGI**  
INSTITUTE OF NANOSCIENCE AND NANOTECHNOLOGY

# Workshop on GAS CHROMATOGRAPHY

**Speaker: Dr. Umer Rashid**  
Senior Fellow Researcher, ION2

**SAVE THE DATE**  
**21 September 2022**  
**8.30 am - 5.00 pm**  
**ION2, UPM**

## Program

Gas chromatography (GC) is an analytical separation technique used to analyze volatile substances in the gas phase in terms of components and the amount. In GC, the sample is dissolved in a solvent and vaporized in order to separate the analytes by distributing the sample between two phases: a stationary phase and a mobile phase. Some of the topics that will be discussed are separation and purification techniques, chromatography methods, instrumentation, as well as data analysis and interpretation. Participants get to watch a live demonstration and obtain hands-on experience working with GC-FID.

**Fees: RM200/person**

**Inclusive of : Meals, Notes and Certificate**  
**Seats are limited so register now!**

## Organizer

Nanomaterials Processing and  
Nanotechnology Laboratory (NPTL),  
Institute of Nanoscience and  
Nanotechnology (ION2), UPM  
For further inquiries, please do not hesitate to  
contact us: zulaika@upm.edu.my

## Registration

Interested participants may register via the  
following link before 14 September 2022:  
<https://forms.gle/J7TwBvGVbEkMsTGb6>  
or scan the QR code

