

Continuing Engineering Education Center

PROGRAMME

08th May 2018 (TUESDAY)

Event	Time (Hours)
Registration	0900 – 0930
Recitation from Holy Quran	0930 – 0935
Opening Remarks	0935– 0945
Introduction to Raman Spectroscopy	0945 – 1045
Tea Break	1045–1115
Raman Spectra of CNT	1115–1230
Lunch/Prayer break	1230 – 1330
Spintronics for Data Storage	1330-1430
Dilute Magnetic Semiconductors for Spintronics	1430-1530
Award of Certificates/ <u>Closing</u>	1530-1600



University of Engineering and Technology,
Lahore, Pakistan.

Continuing Professional Development
(CPD)

A Workshop on

Raman Spectroscopy

&

Dilute Magnetic Semiconductors for Spintronics

(One CPD Credit Point)

08th May, 2018

At

*Laser and Optronics Centre,
UET, Lahore*

Resource Persons

1. Dr. Abdul Waheed Anwar
2. Dr. Usman Ilyas

Department of Physics, UET,
Lahore.

PURPOSE AND BACKGROUND

All working professionals including engineers require continuous updating their knowledge and skills to improve working competency and efficiency. University of Engineering and Technology Lahore has started Continuing Professional Development amongst its growing community of professional engineers having planned series of short courses and workshops in addition to many other academic and professional activities.

This workshop has been designed to enhance professional's knowledge about "Raman Spectroscopy" and dilute magnetic semiconductors for Spintronics. This will help the participants to get understanding about the fundamentals of Raman Spectroscopy along with oxide based materials for their importance and use in different technological applications. The Chemical, Material, Metallurgical, Civil, Mechanical, electrical, , Architectural, Mining and Geological Engineering graduates and students can be benefitted in their professional field of work and Research.

The course contents will include:

- **Introduction to Raman Spectroscopy**
- **Raman Spectra Analysis of CNT**
- **Brief Overview of Spintronics with Application in Data Storage Industry**
- **Zinc Oxide Based Dilute Magnetic Semiconductors for their use in Spintronics**

SPECIAL FEATURE

- ❖ A certificate of one CPD point will be awarded to the participants.

WHO SHOULD ATTEND?

- All Scientist and Engineers.
- Full time Science and Engineering Students (Limited Seats)

COURSE DETAILS

Course Fee: Rs. 3000 for working engineers/Scientists
Rs. 1500 for faculty
Rs. 1000 for students

Course Date: 24th April 2018

Venue: Laser and Optronics Centre, University of Engineering & Technology, G.T. Rd, Lahore 54890.

REGISTRATION PROCESS

Application Form dully filled along with required documents and Fee in the form of Pay Order/ Bank Draft in favour of "PEB Coordinator" or online payment to Habib Bank Limited, UET Branch, A/C No. 01287902267903 should reach on or before 07-05-2018.

For further information, contact:

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The related information can also be found on the website
<http://www.uet.ceec.edu.pk>

PROFILE OF RESOURCE PERSON

1. Dr. Abdul Waheed Anwar

He is working as an Associate Professor in Department of Physics Nanotechnologies Research Center, UET, Lahore. His research interests are Raman Spectroscopy, Nanoscience and nanotechnologies.

2. Dr. Usman Ilyas

He is working as an Assistant Professor in Department of Physics, UET, Lahore. His research interests involved oxide based wide band gap dilute magnetic semiconductors for spintronics, Plasma assisted growth of metal/metal oxide nanostructures for their use in photovoltaic and optronics applications.