

Interactive Seminar / Awareness Session on

Importance of Free Space Optics in Future Generations

Overview: The main objective of this CPD is to give a general idea about Free Space optical (FSO) communication. FSO emerge as the center of attention due to its advantages. Especially the Last mile solution. For instance, Pakistan just recently faced a severe flood situation, and in some areas, communication is interrupted due to the impairment of infrastructure. FSO can be a reliable solution for these situations.

Awareness through sessions participants can able to understand;

- What are the advantages of RF/FSO and how it can be a last-mile solution for future generation limitations?
- Performance analysis of the GFDM/FSO system model.
- Impact of weather conditions.
- Practical Limitations of the FSO systems.
- MIMO techniques implementation on the RF/FSO system

The Key Features Comprises;

- Awareness of Background knowledge, advantage, and disadvantages of the RF/FSO system.
- Performance enhancement by using the MRT technique.
- Practical issues such as Pointing errors (Jitter and Boresight) and weather conditions (rain, haze, and fog) are also addressed.
- Future possible practical scenarios of RF/FSO systems.

CPD Category:	C
Date:	Wednesday, 19th October 2022.
CPD PEC Credit Points:	0.5
Course Timings:	11:00 Hours to 13:00 Hours.
Course Fee: Rs.	Rs. 500/-
Resource Person:	Dr. Muhammad Sameer Ahmed Cell No. 0323-2055535