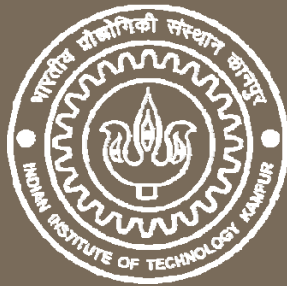


# OFDM Based Next Generation Wireless Standards

17 May - 19 May 2010

Organized by  
BSNL IITK Telecom Center of Excellence & Department of Electrical Engineering IITK



## Important Dates

### Course Dates

17 May - 19 May 2010

### Last Date for Registration

25th April 2010

## Venue

*Seminar Hall,  
Pioneer Batch Building,  
IIT Kanpur*

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## Short Course on OFDM Based Next Generation Wireless Standards

Orthogonal Frequency Division Multiplexing (OFDM) is the cutting edge physical layer technology slated to be employed in the forthcoming 4G wireless cellular standards such as 3GPP Long Term Evolution (LTE/LTE-A), Worldwide Interoperability for Microwave Access (WiMAX) and high speed WLAN standards such as 802.11n. These standards are envisaged to support data rates in excess of 100 Mbps through MIMO, dynamic carrier aggregation and thus enable a diverse plethora of applications in the wireless ecosystem such as broadcast/multicast video, HDTV on demand, high speed internet access, interactive gaming amongst others. At the same time there is a tremendous effort towards fixed mobile convergence to enable seamless mobility across future WLAN and cellular networks. Such factors are driving the wireless telecommunication designers and operators to invest heavily in the development of OFDM compatible technologies and applications with the aim of tapping into the potentially vast revenue opportunity in futuristic 4G cellular networks.

This course is intended to provide practicing engineers and telecom teachers with an in depth exposure to OFDM in addition to elaborate tutorials on the upcoming wireless standards of LTE, WiMAX and 802.11n. It emphasizes both the theoretical and practical aspects of such systems while the modular approach provides the participants with a comprehensive treatment of several aspects of wireless communications building up to the latest wireless standards and technologies. The initial modules will familiarize the participants with an overview of wireless communications and provide a detailed expose of OFDM. This will be followed by individual modules on LTE, WiMAX and 802.11n. Finally, an interactive MATLAB module will introduce the participants to practical implementation aspects of such systems.

## Target Audience

- Practicing wireless system engineers
- Teachers of engineering colleges

For more details and registration information, visit the website  
<http://www.iitk.ac.in/ee/ofdm10>