

## Department of Electronics and Telecommunication Engineering

### TERNA CENTER OF EXCELLANCE ELECTROMAGNETICS

**Lab location: First floor, Room No. 105**  
**Area of the lab in carpet: 83.42 sq. meter.**

**Objectives: OFC & microwave lab is to provide the resources to conduct the research in optical and microwave domain.it fulfill the need of research scholars as well as UG students.**

**Strength: Lab is equipped with industrial standard EM simulation software like HFSS and Optiwave high end software tools (OPTISYSTEM and OPTIFDTD) as well as the measuring instruments such as Vector Network Analyzer with inbuilt Spectrum Analyzer till 14GHz, 1550nm,1310nm,LASERS,,25 Km Glass Fibers. Fiber Optic Devices and all types of fibers all that facilitates the design and implementation of wireless and Optical Fiber Networks and Free Space Optical Networks.**

#### **Software Available:**

1. OPTISYSTEM
2. OPTIFDTD
3. HFSS
4. REL DRT Doppler radar
5. Microsoft Office 2013

#### **Hardware Available:**

1. Intel Core i5 (HP) and i3 (dell) W processor, Keyboard, mouse, Monitor □ Total Count 07.
2. VNA - 14GHz microwave Analyzer with option transmission □ Total Count 01
3. Microwave Bench- X band – Total Count-01
4. OFC kit - Optical Fiber Communication kit with LED and Lesser source – Total count 03
5. Radar Trainer kit - REL DRT Doppler radar kit – Total Count -01
6. Basic Input and Output Devices  
Function generator – Total count- 07  
Single and Dual Power Supply – Total Count – 14  
CRO – Total count- 07

#### **Courses:**

1. Microwave Engineering Lab (B.E □ Semester VII □ EXTC )
2. EA LAB (T.E □ Semester VI – EXTC)
3. Optical Fiber Communication Lab (B.E □ Semester VIII)