1. Course Details:

Course Code : COEL-004
Course Title : Electronics and Communications Engineering
Course Duration : 5 Days

2. Course Overview:

- The Electronics and Communications Engineering program aims to providing advanced analytical as well as technological knowledge in various fields of Electronics and Communications systems. The course includes several, which permit the participants to specialize in anarea while covering a broad scope of various engineering fields.

- The integrated skills of Electronics and Communications engineers are becoming increasingly valuable to the industry and advanced research, especially in areas of: Analog and Digital VLSI Design, Radio Frequency (RF) Integrated Circuit Design, Embedded Systems, Wired and Wireless Communication Systems and Networks, and Microwave and Antenna Engineering.

3. Learning Outcomes:

- Apply basic knowledge and concepts of mathematics and sciences and engineering principles to electronics systems
- Can design and execute an individual project
- Have the relevant mathematical and computational skills
- Know the technology required to design, build, operate and maintain electronic systems, analog and digital, and all types of computers
- Manipulate with the electronic circuits, all the way from the discrete components level, circuits' analysis and design, to the troubleshooting
- Realize control theory and measurement systems for industrial variables, signal conversion, conditioning and processing
- Deal with the computer hardware, software, and interfacing
- Know the field of digital and analog communication, mobile communication, coding, and decoding
- Understand communication and signal processing systems

4. Course Contents:

- Digital Logic Design
- Digital Logic Design Lab
- Microprocessors and Microcontrollers

- Microprocessors and Microcontrollers Lab
- Electric Circuits
- Electric Circuits Lab
- Signal and Systems
- Signal and Systems Lab
- Engineering Mathematics
- Electronic Devices
- Electronic Devices Lab
- Seminar on ECE
- Project Based Learning on ECE
- Electronic Circuits
- Electronic Circuits Lab
- Digital Signal Processing
- Digital Signal Processing Lab
- Communications Systems Fundamentals
- Communications Systems Fundamentals Lab
- Engineering Electromagnetics
- Engineering Electromagnetics Lab
- Electromagnetic Fields and Waves
- Electromagnetic Fields and Waves Lab
- Digital Communications Systems
- Digital Communications Systems Lab
- Automatic Control
- Automatic Control Lab
- Principles of information theory and coding

5. Our Methodology:

- Make coaching and monitoring innovative and using modern
- Media training also using on the go training by using interactive means and focusing on
- The exercises, practical applications and real situations study.
- Live delivery method, instructor-led training.
- Experienced consultant, trainers, and professional.
- Qualified trainer with high-level experience

6. Attendance Reports:

- Send daily attendance reports to trainingdep
- Send full attendance report to training dep. by the end of thecourse
- Attend 100 % from the course days also providedaily

- Issue attendance certificate for participant who attend minimum 80% from the course duration

7. Pre/Post Reports:

- Pre- assessment before starting training.
- Post assessment after finish training
- Full report for the deferent between Pre-& Post assessment

8. Who Should Attend?

- Technicians
- Supervisors