

# **B-TECH Electronics & Communication Engineering**

## **COURSE COUT COMES**

### **SEM 3-1**

#### **Computer organization and operating systems**

- CO 1:** Demonstrate the architecture of modern computer.
- CO 2:** Evaluate the effective address of an operand by addressing modes.
- CO 3:** Demonstrate Cache memory Secondary storage organization.
- CO 4:** Demonstrate functions, structures and history of operating systems.
- CO 5:** Analyze resources sharing among the users.

#### **Antennas and Wave propagation**

- CO 1:** **Define** fundamentals of antenna theory
- CO 2:** **Describe** the various types of antennas and the radiation mechanism
- CO 3:** **Apply** the fundamental parameters of antennas and arrays operating at various frequencies from LF to Microwave applications
- CO 4:** **Analyze** the atmospheric and terrestrial effects on radio wave propagation.

#### **Electronic Measurement and Instrumentation**

- CO 1:** Describe the fundamental concepts and principle of instrumentation.
- CO 2:** To apply the measurement techniques for different types of tests.
- CO 3:** Analyze functioning, specification and application of signal analyzing instrument.

**CO 4:** Identify the importance of a transducer in physical parameters measurement and Differentiate types of transducer in instrumentation systems

### **Analog Communication**

**CO 1:** Conceptually understand the baseband signal and systems.

**CO 2:** Identify various elements, processes, and parameters in telecommunication systems, and describe their functions, effects, and interrelationship.

**CO 3:** Design procedure of AM transmission & Reception, Analyze, measure, and evaluate the performance of a telecommunication system against given criteria.

**CO 4:** Understand basic knowledge of FM transmission & Reception

### **Linear and Digital IC application**

**CO 1:** Understand the basic building blocks of linear integrated circuits and its characteristics

**CO 2:** Analyze the linear, non-linear and specialized applications Op-amp

**CO 3:** Understand the theory of ADC and DAC.

**CO 4:** Able to use computer-aided design tools for development of complex digital logic circuits.

**CO 5:** Able to model, simulate, verify, analyze, and synthesize with hardware description languages.