

## **COURSE OBJECTIVES AND COURSE OUTCOMES**

**T. Y. B. Sc. SEMESTER - V**

**PHYSICS APPLIED PAPER**

**SUBJECT: ELECTRONIC INSTRUMENTATION: ANALOG CIRCUITS,  
INSTRUMENTS AND CONSUMER APPLIANCES (USACEI501)**

<b>Sr. No.</b>	<b>Course Objectives</b>	<b>Course Outcomes</b>
1)	To introduce the working principals of electric transducers	Student can develop the basic concept of sensors and explain role of a transducer in a specific application
2)	To discuss the working of measuring instruments used in physics laboratory	Student can understand the basic working CRO and power supply and student will develop the skills to handle laboratory instruments like CRO and power supply in an effectively
3)	To justify the concept of signal conditioning	Student will be able to demonstrate working of basic signal conditioning circuits
4)	To discuss the concept of data acquisition systems and data conversion techniques	Student will be able to develop a basic DAC and demonstrate its working
5)	To describe working of modern medical instruments which are widely used	Student will be able to understand working of various diagnostic instruments used in medical field
6)	To introduce the concept of PCB designing	Student will gain knowledge about the concept of PCB designing
7)	To discuss working of Consumer appliances	Student can understand working of certain consumer electronic devices

## **COURSE OBJECTIVES AND COURSE OUTCOMES**

**T. Y. B. Sc. SEMESTER - VI**

**PHYSICS APPLIED PAPER**

**SUBJECT: DIGITAL ELECTRONICS, MICROPROCESSOR,  
MICROCONTROLLER AND OOP (USACEI601)**

<b>Sr. No.</b>	<b>Course Objectives</b>	<b>Course Outcomes</b>
1)	To develop logic circuit design concepts	Student will be able to discuss the working of various digital circuit
2)	To discuss semiconductor memories and their functioning	Student will gain knowledge of semiconductor memories and their functioning as they form important part modern lifestyle
3)	To develop assembly language programming and applications of microprocessors	Student will be able to develop basic assembly language programs
4)	To discuss the concept of C++ programming and develop the skill of program writing	Student will be able to develop basic C++ programs