

## **General Workshop Information**

**Workshop Title:** Development of Smart Measurement Systems: Chemical Sensors, Biosensors, and Medical Sensors

**Workshop Type:** Specialized Workshop of ICBME 2026

**Organizer:** The 33rd National Conference and the 11th International Conference on Biomedical Engineering

**Instructor:** Dr. Mehdi Ranjbar, Faculty Member at Isfahan University of Technology

**Date:** November 19, 2026

**Duration:** 90 minutes

**Format:** In-person

**Venue:** Isfahan University of Technology

### **Workshop Overview**

This workshop aims to introduce participants to the principles and applications of smart measurement systems and the role of advanced sensors in chemical, biological, and medical fields. Participants will become familiar with the concepts, sensing mechanisms, and applications of chemical sensors, biosensors, and medical sensors in the development of smart measurement systems.

### **Topics and Course Outline**

- Introduction to the fundamentals of smart measurement systems
- Overview of the principles and types of chemical sensors
- Introduction to biosensors and their sensing mechanisms
- Overview of medical sensors and their applications
- Role of sensors in the development of smart measurement systems
- Applications of advanced sensors in biological and medical fields
- Challenges and future perspectives in the development of smart measurement systems

### **Registration Fee**

**General:** 6,000,000 R

**Conference Participant:** 4,000,000 R