



**WORKSHOP (In Hybrid Mode)**

**On**

## **Recent Trends in Speech and Audio Processing, 16– 20 March 2026**

**Department of Electronics & Communication Engineering  
Birla Institute of Technology, Mesra, Ranchi, Jharkhand**

### **About the Workshop**

With the advent of faster computers, online big data-based processing, data analytics, artificial intelligence and machine learning technology paved their way in smart automation. In this direction, this workshop will explore Artificial Intelligence and Machine Learning (AI/ML) algorithms and techniques that can be explored in the field of speech and audio processing. The objective of this workshop is to bring together experts from the globe and create a joint platform for information exchanges, presentation of results, and fruitful discussions to identify gaps and future directions in this field.

### **Who can participate**

UG, PG , PhD students , Faculty Members and Industry executives.

### **Registration fee:**

- ✓ No Registration Fee

### **Areas to be covered**

- ✓ Speech Production and Processing
- ✓ Machine Learning & Deep Learning
- ✓ Speech in Hearing aids
- ✓ AI in speech pathology analysis
- ✓ ML in music therapy
- ✓ AI in Automatic Speech Recognition
- ✓ Natural Language Processing

### **Resource Persons:**

Engineers from Entuple Technologies Pvt Ltd, Bangalore  
Engineers from, Digiroad Technology Pvt Ltd, Bangalore  
Dr. Nitin V. George, IIT Gandhinagar  
Dr. Somanath Pradhan, IIT Patna  
Dr. Ashutosh Kar, Birmingham City University, United Kingdom

### **Workshop Objectives**

To understand the fundamentals in the field of speech and audio processing and feature extraction techniques.

Explore the utility of Machine learning, Deep learning, Natural language processing in speech processing.

To explore the area of speech pathology and music therapy.

Automatic Speech Recognition and Biometric.

### **About Dept. of Electronics and Communication Engineering**

The Department of Electronics and Communication Engineering established in 1955 and has been actively involved in imparting quality teaching/training, supervision, and motivation to undergraduate, postgraduate and doctoral students. It is one of the largest departments of the institute having largest student and faculty strength. Due to its modern infrastructure and exposure given to the students, it is one of the elite departments in India. The department has experienced and proficient faculty members and well-equipped modern Labs.

### **Registration Link:**

<https://forms.gle/sMWMd6rZKKhki6vi8>

### **Organizing Committee**

**Patron** : Dr. Indranil Manna, Vice Chancellor, BIT Mesra

**Convenor** : Dr. Sanjay Kumar, HOD, Dept. of Electronics & Communication Engg., BIT Mesra

**Coordinators:** Dr. Rupesh Kumar Sinha, Dept. of ECE, BIT Mesra

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Dr. Arvind Kumar, Max Plank Institute

of Psycholinguistics, The Netherlands

Dr. Biswajit Karan, Sarla Birla University  
Ranchi

Dr. Soubhik Chakraborty, BIT Mesra,  
Ranchi