



## Sangeeta Bagha, Ph.D.

**Designation** : Assistant Professor

**Department** : Department of Electronics & Instrumentation Engg.  
(JOINED THE INSTITUTE IN JUNE 2011)

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### RESEARCH INTERESTS

- ✓ Adaptive Signal Processing
- ✓ Active Noise Control
- ✓ Artificial Neural Network & Machine Learning
- ✓ Biomedical Signal Processing

### Academic Qualifications

Ph.D in Engineering CSIR-IMMT, Odisha

M. Tech in Electronics & Instrumentation Engineering , Karunya University, TN.

B. Tech in Biomedical Engineering ,TAT, Bhubaneswar,Odisha.

**Specialisation** : Adaptive Signal Processing

### Teaching Experience/Industrial Experience/Research Experience

Teaching Experience : 3 years

Research Experience : 7 years

### PUBLICATIONS:

#### JOURNALS:

1. **S. Bagha**, D. P. Das and S. K. Behera, "An Efficient Narrowband Active Noise Control System for Accommodating Frequency Mismatch," in **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 28, pp. 2084-2094, 2020.
2. **S. Bagha**, R. K. Tripathy, P. Nanda, C. Preetam, D. P. Das, "Understanding perception of active noise control system through multichannel EEG analysis." IET Healthcare Technology Letters, vol. 5(3), pp. 101-106, 2018.
3. **S. Bagha**, and L. Shaw. "A real time analysis of PPG signal for measurement of SpO2 and pulse rate." International journal of computer applications, vol. 36(11), pp. 45-50, 2011.
4. L. Shaw, **S. Bagha**, A. G. Mohapatra, , & Nayak, "Kernel approach on detection of ethanol concentration using ZnO gas sensor," International Journal of Machine Learning and computing, vol. 2(1), pp. 71-76, 2012.
5. L. Shaw, and **S. Bagha**. "Online EMG signal analysis for diagnosis of neuromuscular diseases by using PCA and PNN." International Journal of Engineering Science and Technology, vol. 4(10), pp.4453-4459, 2012.
6. S. Barick, and **S. Bagha**. "Removal of 50hz powerline interference for quality diagnosis of ECG signal." International Journal of Engineering Science and Technology, vol. 5(5), pp. 1149-1153, 2013.