

**AICTE Sponsored Two Week Faculty Development Programme (FDP) on  
Hands on Project-Based Approach for Biomedical Signal Analysis using  
MATLAB**



**Department of Electronics and Communication Engineering**

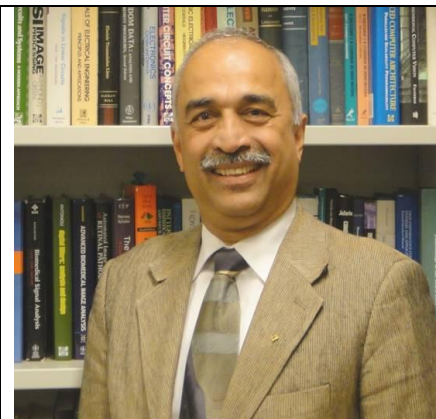
**Phase-II: 1<sup>st</sup> to 13<sup>th</sup> February, 2021**

**Chief Guest: Dr. Rangaraj M. Rangayyan**

*Professor Emeritus of Electrical and Computer Engineering  
University of Calgary, Alberta, Canada.*

9.15 am-10.30 am Expert lecture by Chief Guest

**Topic:** Computer-aided Diagnosis: Engineering Improved Health Care



**Narendra Digambar Londhe**

*Associate Professor, Dept. of Electrical Engineering, NIT Raipur*

**Topic:** Devanagari Script Input Based P300 Speller for Brain  
Computer Interface



**Dr. Kunal Pal**

*Associate Professor, Biotechnology and Medical Engineering,  
NIT, Rourkela.*

**Topic:** Cardiac Signal Processing



**Dr. Ram Bilas Pachori**

*Department of Electrical Engineering  
Associate Dean of Academic Affairs (UG Programme)  
IIT Indore, Simrol, Indore, India*

**Topic:** EEG signal classification techniques for brain disease  
Diagnosis



**Dr. K. Ashoka Reddy**

*Professor in ECE & Principal, KITSW*

**Topic:** ECG signal analysis



**Dr. R. Jac Fredo**

*Assistant Professor, School of Bio-Medical Engineering IIT(BHU)*

**Topic:** Machine learning applications for Neuro imaging



**Dr. Debasis Samanta**

*Associate Professor, Dept. of CSE, IIT Khargpur.*

**Topic:** Electroencephalogram (EEG) Brain Signal Processing and its Applications



**Dr Tushar Kanti Bera,**

*Assistant Professor, Department of Electrical Engineering,  
NIT Durgapur*

**Topic:** Electrical Impedance Based Noninvasive Health Monitoring and Disease Diagnosis



**Dr. M.Raghu Ram**

*Associate Professor, Dept. of EIE, KITSW*

**Topic:** Adaptive filtering methods for PPG signal processing



**Dr Karan Veer,**

*Assistant Professor, Department of Instrumentation & Control  
Engineering*

*NIT Jalandhar*



**Dr.Udit Satija**

*Assistant Professor, Electrical engineering,  
IIT, Patna*

**Topic:** Machine Learning for Biomedical Signals



**Praful P. Pai, PhD**

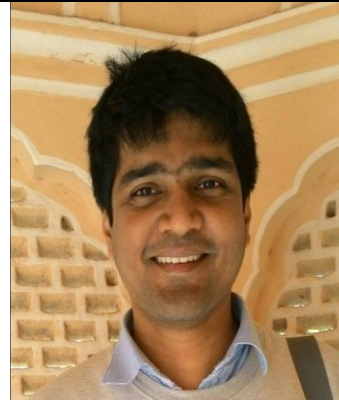
*MathWorks, India*

**Topic 1:** Biomedical Signal Processing and Analysis with MATLAB

**Session Focus:** Signal Processing, Feature Extraction, and Machine Learning

**Topic 2:** Deep Learning with MATLAB for Biomedical Signal Analysis

**Session Focus:** Introduction to Deep Learning for Signals, CNNs, LSTMs



**Sri. J.Sheshagiri babu**

*Assistant Professor, Dept. of ECE, KITSW*

**Topic:** Signal processing algorithms for EEG analysis using MATLAB



**Dr. G. Raghotham Reddy**

*Professor in ECE & Dean Student affairs, KITSW*

**Topic:** Biomedical Image segmentation using level set methods



**Dr. K. Ramudu**

*Assistant Professor, Dept. of ECE, KITSW*

**Topic:** Biomedical Image Processing: A Research perspective



**Sri. P.Yugander**

*Assistant Professor, Dept. of ECE, KITSW*

**Topic:** Magnetic resonance image Denoising algorithms



**Sri. E.Harikrishna**

*Assistant Professor, Dept. of ECE, Kakatiya University, Kothagudem*

**Topic:** Real time perspectives of wavelet transform in analysis of biomedical signals



**Sri. B. Narasimha**

*Assistant Professor, Dept. of ECE, KITSW*

**Topic:** Preprocessing and spectral analysis of biomedical signals in MATLAB



**Dr. K. Raja Narender Reddy**

*Professor, Department of ME, KITSW*

**Topic:** PRANA MEDITATION :Integrated approach for wellness

