



**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  
Kakatiya Institute of Technology and Science, Warangal – 506015 (TS)  
(An Autonomous Institute under Kakatiya University, Warangal) (Accredited by NAAC with 'A' Grade)



**Phase-II: 1 Feb, 2021 – 13 Feb, 2021**  
**WEEK-1 Schedule**

Date & Day	Session-I (2.00pm-3.45pm)		Session-II (Practical) (4.00pm-6.00pm)
01.02.2021 MONDAY	<b>Inauguration:9.00am-9.15am(IST)</b> <b>Chief Guest: Dr. Rangaraj M. Rangayyan</b> <i>Professor Emeritus of Electrical and Computer Engineering University of Calgary, Alberta, Canada.</i> 9.15 am-10.30 am Expert lecture by Chief Guest <b>Topic:</b> Computer-aided Diagnosis: Engineering Improved Health Care		<b>Sri. J. Premkumar</b> <i>Sr. Application engineer, Capricott Tech. Hyderabad</i> <b>Topic:</b> Hands on usage of Signal Processing Toolbox of MATLAB
02.02.2021 TUESDAY	<b>Narendra Digambar Londhe</b> <i>Associate Professor, Dept. of Electrical Engineering, NIT Raipur</i> <b>Topic:</b> Devanagari Script Input Based P300 Speller for Brain Computer Interface		<b>Praful P. Pai, PhD MathWorks, India</b> <b>Topic:</b> Biomedical Signal Processing and Analysis with MATLAB <b>Session Focus:</b> Signal Processing, Feature Extraction, and Machine Learning
03.02.2021 WEDNESDAY	<b>Dr. Kunal Pal</b> <i>Associate Professor, Biotechnology and Medical Engineering, NIT, Rourkela.</i> <b>Topic:</b> Cardiac Signal Processing	<b>BREAK</b>	<b>Praful P. Pai, PhD MathWorks, India</b> <b>Topic:</b> Deep Learning with MATLAB for Biomedical Signal Analysis <b>Session Focus:</b> Introduction to Deep Learning for Signals, CNNs, LSTMs
04.02.2021 THURSDAY	<b>Jigyasu &amp; Pradeep</b> <i>Sr. Application Engineer, Integrated Microsystem, Gurgaon.</i> <b>Topic:</b> Simpleware Software - From 3D Images to Models : A Complete Solution		<b>Sri. J. Sheshagiri babu</b> <i>Assistant Professor, Dept. of ECE, KITSW</i> <b>Topic:</b> Signal processing algorithms for EEG analysis using MATLAB
05.02.2021 FRIDAY	<b>Dr. Ram Bilas Pachori</b> <i>Department of Electrical Engineering Associate Dean of Academic Affairs (UG Programme) IIT Indore, Simrol, Indore, India</i> <b>Topic:</b> EEG signal classification techniques for brain disease diagnosis		<b>P. Yugander</b> <i>Assistant Professor, Dept. of ECE, KITSW</i> <b>Topic:</b> Magnetic resonance image De-noising algorithms
06.02.2021 SATURDAY	<b>Dr. R. Jac Fredo</b> <i>Assistant Professor, School of Bio-Medical Engineering IIT(BHU)</i> <b>Topic:</b> Machine learning applications for Neuro imaging		<b>Dr. Hardik J. Pandya</b> <i>Assistant Professor, BEES Lab, IISC Bangalore</i> <b>Topic:</b> EEG Signal acquisition using MATLAB



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Phase-II: 1 Feb, 2021 – 13 Feb, 2021

WEEK-2 Schedule

Date & Day	Session-I (2.00pm-3.45pm)		Session-II (Practical) (4.00pm-6.00pm)
08.02.2021 MONDAY	<b>Dr. Debasis Samanta</b> <i>Associate Professor, Dept. of CSE, IIT Khargpur.</i> <b>Topic:</b> Electroencephalogram (EEG) Brain Signal Processing and its Applications	BREAK	<b>Sri. E.Harikrishna</b> <i>Assistant Professor, Dept. of ECE, Kakatiya University, Kothagudem</i> <b>Topic:</b> Real time perspectives of wavelet transform in analysis of biomedical signals
09.02.2021 TUESDAY	<b>Dr Tushar Kanti Bera,</b> <i>Assistant Professor, Department of Electrical Engineering, NIT Durgapur</i> <b>Topic:</b> Electrical Impedance Based Noninvasive Health Monitoring and Disease Diagnosis		<b>B. Narasimha</b> <i>Assistant Professor, Dept. of ECE, KITSW</i> <b>Topic:</b> Preprocessing and spectral analysis of biomedical signals in MATLAB
10.02.2021 WEDNESDAY	<b>Dr. M.Raghu Ram</b> <i>Associate Professor, Dept. of EIE, KITSW</i> <b>Topic:</b> Adaptive filtering methods for PPG signal processing		<b>Dr. K. Ramudu</b> <i>Assistant Professor, Dept. of ECE, KITSW</i> <b>Topic:</b> Biomedical Image Processing: A Research perspective
11.02.2021 THURSDAY	<b>Dr Karan Veer,</b> <i>Assistant Professor, Department of Instrumentation &amp; Control Engineering, NIT Jalandhar</i> <b>Topic:</b> Role of instrumentation in biomedical applications		<b>Dr. G. Raghobham Reddy</b> <i>Professor in ECE &amp; Dean Student affairs, KITSW</i> <b>Topic:</b> Biomedical Image segmentation using level set methods
12.02.2021 FRIDAY	<b>Dr.Udit Satija</b> <i>Assistant Professor, Electrical engineering, IIT, Patna</i> <b>Topic:</b> Machine Learning for Biomedical Signals		<b>Dr. K. Raja Narendra Reddy</b> <i>Professor, Department of ME, KITSW</i> <b>Topic:</b> PRANA MEDITATION :Integrated approach for wellness
13.02.2021 SATURDAY	<b>Dr. K. Ashoka Reddy</b> <i>Professor in ECE &amp; Principal, KITSW</i> <b>Topic:</b> ECG signal analysis		<b>Dr. Vanishri Arun</b> <i>Assistant Professor SJCE, JSS Science and Technology University, Mysuru, Karnataka</i> <b>Topic:</b> AI enabled model development for Bio-Medical Informatics