Organizing Committee

Sri. G. Satyanarayana
President

Sri. Ch.V.V. Subba Rao Secretary & Correspondent

Co-Patron Sri. Ch. Apparao Director – Technical

Chairman
Dr. GVNSR Ratnakara Rao
Principal
Convener
Dr.E. Kusuma Kumari
Professor & HoD, ECE

Organizing Committee:

Faculty members of ECE Department

About the college

pollution- free location, 5 km away from the main town and is well connected by road (NH16) and rail (Chennai to known as the commercial bub of Coastal Andhra Pradesh The college is situated at Pedatadepalli, a peaceful and society for the development of quality Technical Education "A" Grade. UG Programs offered by the departments of &12(B). The College got UGC Autonomous in the year is recognized by AICTE and permanently affiliated to JNTU surrounded by green fields and coconut groves. The college Kolkata). The college has a sprawling campus of 25.02 acres Tadepalligudem, West Godavari District. The town is well Society" with a desire to share the responsibilities of the established in the year 2001 by "Sri Vasavi Educational along with MBA. The college is accredited by NAAC with Kakinada and also recognized by UGC under section 2(f) EEE, ME, ECE & CSE are accredited by NBA. Engineering (EEE, ECE, CSE, ME & CE, CST and ECT) 2018. The college offers UG, PG and Diploma Programs in "Sri Vasavi Engineering College (Autonomous)" was

About the Departmen

Vision of the Department is to develop the department into a center of excellence & produce high quality, technically competent& Responsible Electronics & Communication Engineers. The Department of ECE is established in the year 2001 with a view to develop quality engineers to most the current trends. The department offers UG program in B. Fech (ECE). The department also offers PG program with VLSI & Embedded systems specialization having an intake of 18. The department has a pool of well qualified, highly experienced & research-oriented faculty members covering all the major areas.

About FDP

Biomedical signal processing and instrumentation is an emerging stream that has got both industrial and research significance. Medical practitioners and Engineers are developing new ways to process bio signals using a variety of mathematical tools and algorithms used in both therapeutic and diagnostic instrumentation. The course aims to impart solid foundation in mathematical and signal processing tools on biomedical signals and medical imaging for feature extraction using MATLAB and Lab VIEW.

Objectives of FDP

To improve the knowledge of participants in biomedical signal processing and motivate the participants to work with Bio-medical signals.

To unfold various research areas under biomedical signal processing and provide opportunity to contact with experts in the related areas. To provide sound mathematical and theoretical prerequisites necessary for earry out research in this field.

Registration link:

https://forms.gle/BNA1bMpqnLojmfrw7

The FDP is open to faculty members of AICTE approved Institutions, Research scholars and persons from industry and R&D organizations from all over country.

Registration Fee: ***NIL ***

Online meeting link will be provided through Whatsapp: bttps://chat.whatsapp.com/LpHDkZUk3nu4NsuZhzLR7F The number of Participants will be limited to 100 *Note: E-Certificates will be provided to those participants who attend all the sessions of the program and also appear for the online test as per the norms of AlCTE.

The test will be on the last day and certificates will be given to all the eligible candidates with 80% attendance and 60%

AICTE Sponsored



FACULTY DEVELOPMENT PROGRAM

"Research Areas in Bio-Medical Signal Processing"

14th - 19th December 2020

FDP-III

Coordinator

Dr. U. Yedukondalu

Assoc. Prof. of ECE

Co-Coordinators

Mrs. Y. Sujatha, Sr Asst. Prof. of ECE

Organized by



Department of Electronics & Communication Engineering

Sri Vasavi Engineering College (Autonomous)

Tadepalligudem, West Godavari District - 534101
(Approved by AicTe and affiliated to JUTUK Kakinada, AP)
(Accretical by Mii - UE is EEE, EEE CEE B NE and NAME with 'I Trade)

WWW.STIVASAVIERGE.AC.in



Chandigarh College of Engineering and Technology Professor Department of ECE Dr. Anil Kumar, Rose



Dr Santosh Nannuru IIIT, Hyderabad Department of ECE Assistant Professor



MANIT, Bhopal Department of CSE Assistant Professor Dr. Vijay Bhaskar Semwal



Dr. Anil Kumar Vuppala Department of ECE Associate Professor,

IIIT Hyderabad







IIT Delhi Department of ECE Assistant Professor Dr Deepak Joshi



(India) Technology, Govt of India) Sector 30-C, Chandigarh-160030 (Ministry of Science & Instruments Organization (CSIR-CSIR-Central Scientific AICTE, New Delhi) Institute Duly Approved By (Skill-Based Autonomous Govt Indo-Swiss Training Centre (ISTC) Dr. Jitendra Virmani Bangalore

Pradesh, INDIA Distt. Solan, Himachal

Waknaghat,

Information Technology, Jaypee University of Department of ECE Associate Professor, Dr. Shruti Jain

Nano Sniff Technologies

Technology Officer Co-Founder & Chief Dr. Nitin S Kale



Research Consultant, Philips Dr P. Suhail Parvaze Innovation Campus,



Artificial Intelligence **Business Analytics and** Great Learning - PG Program in Visiting Faculty @ Great Lakes Founder & CTO, SCS-India Institute of Management Dr S Mahesh Anand

Sri Vasavi Engineering College

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Report On AICTE Sponsored



ONE WEEK NATIONAL LEVEL ONLINE FACULTY DEVELOPMENT PROGRAM

"Research Areas in Bio-Medical Signal Processing"

FDP-III

16th -21st November 2020

We got a grant of Rs 4,55,333 for conduct of Faculty Development Program on "Research Areas in Biomedical Signal Processing" under AQIS 2019-20 during the financial year 2020-21 dated 30th July 2020. As per the guidelines by the AICTE through Email dated 14th September 2020, we informed our willingness to organize a four-week FDP on the same title through online and also sent tentative scheduled for the same to the director and also got approval for the same.

In this connection the Department of Electronics and Communication Engineering, Sri Vasavi Engineering College has conducted a Faculty Development Program (FDP-II) on "Research Areas in Bio-Medical Signal Processing "from 16th to 21st November 2020. The FDP-II Program received an overwhelming response with more than 100 participants from various institutes/colleges approved by AICTE. This FDP-II is planned for one week to comprise 2 technical hands- on sessions & 10 Lecture Sessions on topics Applications of Bio-Medical Signals, Acquisition of Bio-Signals, Ultra-Wide Band Antenna Technology for Bio-Medical/ Healthcare Applications, RF Energy Harvesting Systems for Bio-Medical/ Healthcare Applications, Role of Information in Bio-Medical Systems, Feature Extraction and Classification of Bio-Medical Signals, Bio-Medical Classification Techniques, Human Gait Analysis Using Wearable Sensor, Development of Algorithms in Bio-Medical Signal Processing, Moving average filter to suppress additive noise in Biosignals using Matlab, Derivative filters for event detection in Bio-Signals (QRS detection in ECG) using Matlab and Time Domain Feature Extraction from Biomedical signals (EEG) using Matlab and Fourier Domain Feature Engineering in Biomedical signals using Matlab.

About FDP:

Biomedical Signal processing and instrumentation is an emerging stream that has got both industrial and research significance. Medical practitioners and Engineers are developing new ways to process bio signals using a variety of mathematical tools and algorithms used in both therapeutic and diagnostic instrumentation. The course aims to impart solid foundation in mathematical and signal processing tools on biomedical signals and medical imaging for feature extraction using MATLAB and Lab VIEW. This Faculty Development Program introduce the fundamental principles of Bio medical signal processing. Hands on training with experts is also given to the participants. The detailed report about the FDP is given as below:



Date & Day	TIMINGS	TOPIC "
16-11-2020 (MONDAY)	9:30 AM- 10:00 AM	Inauguration
	10:00 AM - 11:30 AM (Session-1)	Session by Prof. N Balaji, Topic: Applications of Bio-Medical Signals
	02.00 PM - 03.30PM (Session-2)	Session by Prof. G. Rama Murthy Topic: Acquisition of Bio-Signals
17-11-2020 (TUESDAY)	10:00 AM - 11:30 AM (Session-1)	Session by Dr. Taimoor Khan Topic: Ultra-Wide Band Antenna Technology for Bio-Medical/ Healthcare Applications
	02.00 PM - 03.30PM (Session-2)	Session by Dr. Talmoor Khan Topic: RF Energy Harvesting Systems for Bio- Medical/ Healthcare Applications
18-11-2020 (WEDNESDAY)	10:00 AM - 11:30 AM (Session-1)	Session by Prof. L Pratap Reddy, Topic: Role of Information in Bio-Medical Systems
	02.00 PM - 03.30PM (Session-2)	Session by Dr. Kunal Pal Topic: Feature Extraction and Classification of Bio- Medical Signals
19-11-2020 (THURSDAY)	10:00 AM - 11:30 AM (Session-1)	Session by Prof. Samarendra Dandapat Topic: Bio-Medical Classification Techniques
	02.00 PM - 03.30PM (Session-2)	Session by Dr. Vijay Bhaskar Semwal Topic: Human Gait Analysis Using Wearable Sensor
20-11-2020 (FRIDAY)	10:00 AM - 11:30 AM (Session-1)	Session by Dr. Ravi Kumar Jatoth Topic: Development of Algorithms in Bio-Medical Signal Processing
	0Z.00 PM - 03.30PM (Session-2)	Session by Dr. Hanumanth Rao T V K Topic: Development of Algorithms
21-11-2020 (SATURDAY)	10:00 AM - 11:30 AM (Session-1)	Session by Dr. S Mahesh Anand Hands on session

02.00 PM - 03.30PM (Session-2)	Topic: Time domain feature Extraction from Bio- Signals (EEG) using MATLAB and Fourier domain feature Engineering in Bio-Signals using MATLAB Hands on session
3:30 PM- 4:00 PM	Valedictory

Resource Persons:



Prof. Samarendra Dandapat Professor, Department Of EEE. IIT Guwahati, Assam



Prof. L. Pratap Reddy Professor, Department of ECE JNTU Hyderabad



Dr. Vijay Bhaskar Semwal Assistant Professor Department of CSE MANIT, Bhopal



Prof. N. Balaji Professor, Department of ECE Director IQAC, JNTUK, Kakinada



Prof. Rama Murthy Professor, Department of CSE Mahindra University, École Centrale Schoo of Engineering. Hyderabad



Dr. Ravi Kumar Jatoth Associate Professor, Department of ECE NIT Warangal



Dr. Hanumanth Rao T V K Associate Professor, Department of ECE NIT Warangal



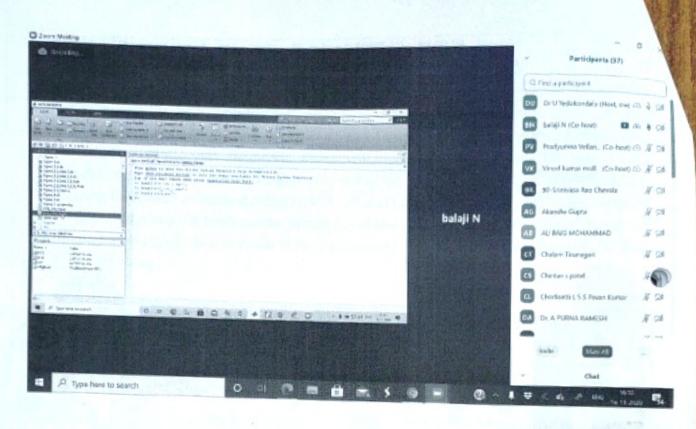
Dr. Kunal Pal Associate Professor Department of Biotechnology and Medical Engineering, NIT Rourkela,

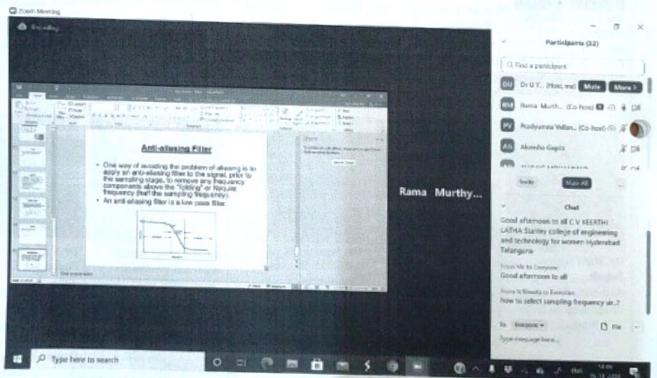


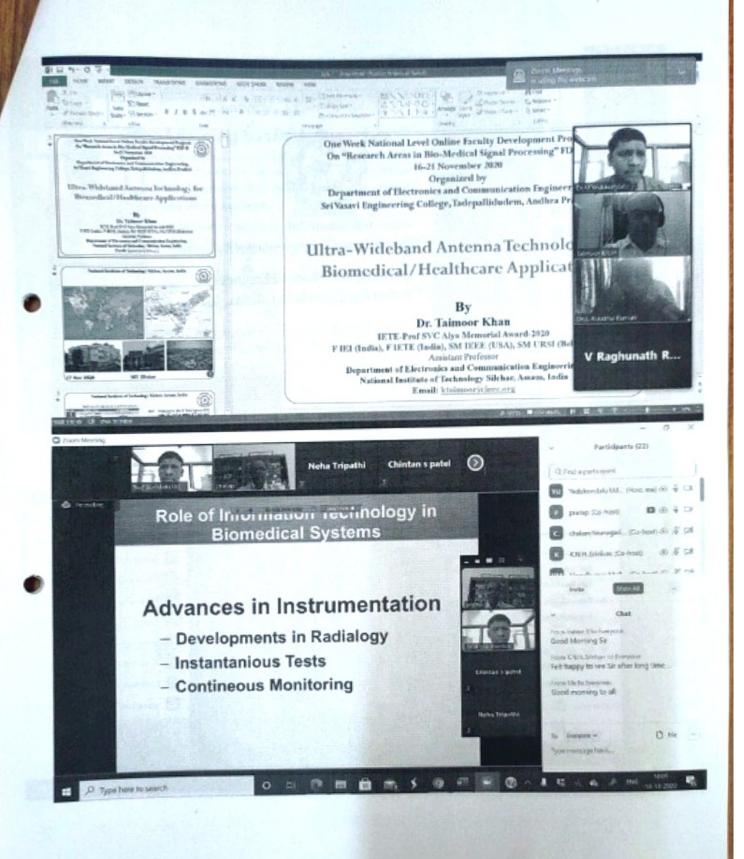
Dr. Taimoor Khan Assistant Professor Department of ECE NIT Silchar

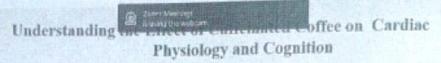


Dr S Mahesh Anance
Founder & CTO, SCS
India
Visiting Faculty @
Great Lakes Institute
of Management
Great Learning - PG
Program in Business
Analytics and
Artificial Intelligence











Dr. Kunal Pal

PIC: Medical Electronics and Instrumentation Laboratory

Department of Biotechnology and Medical Engineering Nation Institute of Technology, Rourkela, Odisha, India

Presented at:

FDP on "Research Areas in Bio-Medical Signal Processing" (16-18 November, 2020)

Sri Vasavi Engineering College, West Godavari, AP, India

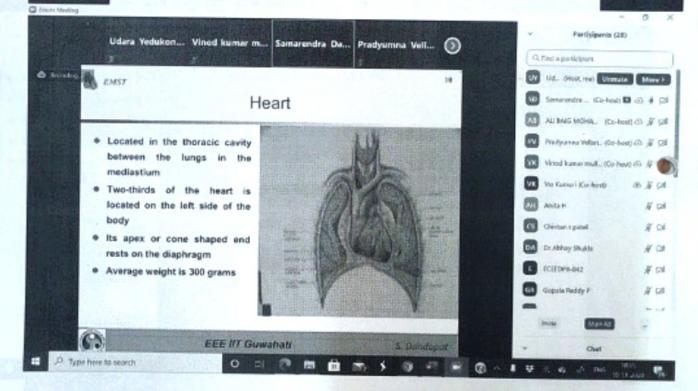
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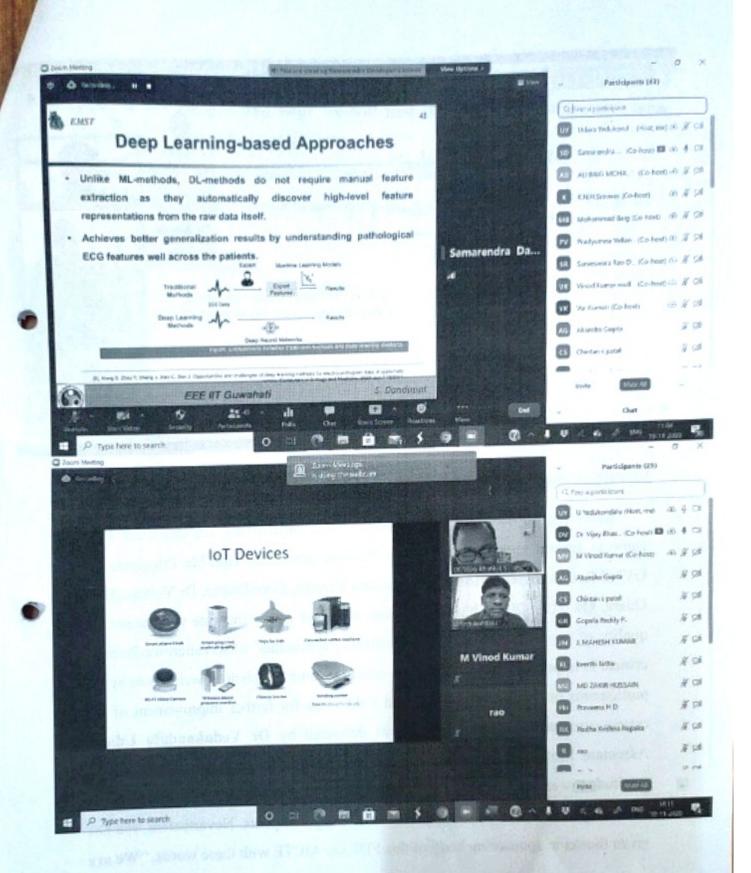
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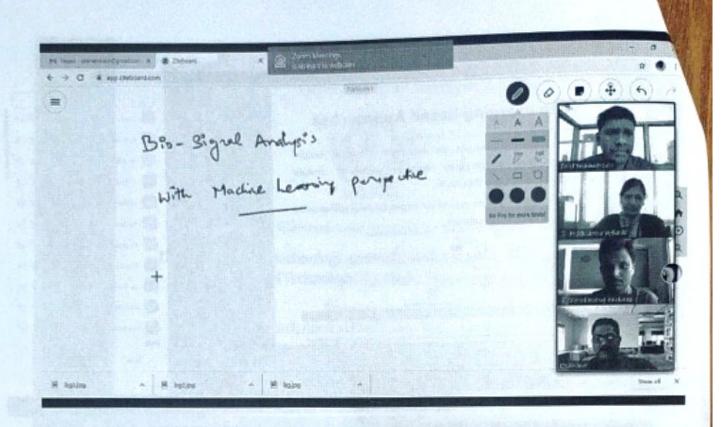
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Valedictory Session:

Receiving an overwhelming response from participants, the one-week FDP came to an end with the Valedictory Session, graced by Hon'ble Principal, Dr. GVNS Ratnakara Rao, HoD, Dr E Kusuma Kumari, Coordinator, Dr Yedukondalu Udara. On 21/11/2020. It's the constant endeavor of the Institute to improve the quality of its continuing academic courses. Participants' observation/feedback is critical in improving the quality of the courses. Some suggestions were given by the participants on timing, few topics and field visits for further improvement of the course structure. Vote of Thanks was delivered by **Dr Yedukondalu Udara**, Associate Professor, ECE Department SVEC, in which she has been paid her gratitude towards all the dignitaries who has spared their time and come from a far distance places to share their expertise with the participants. Nevertheless, she has given thanks to sponsoring body of this FDP i.e. AICTE with these words, "We are

highly thankful to the AICTE for providing financial assistance to organize this FDP in our campus and hope we will find the support in future also for organizing such kind of activities."

E- certificates were distributed to all the eligible participants.

We are planning Two more Phases as per the guidelines given by AICTE as for following scheduled:

FDP Tentative Schedule:

III Week: 14-12-2020 to 19-12-2020 (FDP-III)
IV Week: 01-02-2021 to 06-02-2021 (FDP-IV)

Dr U Yedukondalu

HOD Dr E Kusuma Kumari