REGISTRATION FORM

One Week National Level Online Faculty Development
Program (FDP-I)

"Research Areas in Bio-Medical Signal Processing"

FDP-I 12th -17th October 2020

| Summer | Decionation. | | Name: | |
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| | | | | |
| South Section | | | | |

Institution/Organization:

Address

Contact Number:

Email

Qualifications:

Experience in years:

Teaching: Research: Industry:

Signature of the Head of the institution / HoD /

Participant

Last date for Registration: 10th October 2020

Address for Communication:

Dr. U Yedukondalu

Associate Professor, ECE Dept. Sri Vasavi Engineering College, Tadepalligudem-534101, AP Mail: aictefdp2020.ece@gmail.com Mobile. No: 8008465666(w) & 9849437940

Dr. Purnima K Sharma
Associate Professor, ECE Dept.
Sri Vasavi Engineering College,
Tadepalligudem-534101, AP
Mail: aictefdp2020.ece@gmail.com

Patrons

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

Registration link:

https://forms.gle/PJriwkVB5CUNPPFdA

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.

The number of Participants will be limited to 150

*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 AICTE.

AICTE Sponsored



ONE WEEK NATIONAL LEVEL ONLINE FACULTY DEVELOPMENT PROGRAM on

"Research Areas in Bio-Medical Signal Processing"

12th -17th October 2020

FDP-I

Coordinator:
Dr. U. Yedukondalu
Assoc.Prof. of ECE

Co Coordinator:
Dr. Purnima K Sharma
Assoc. Prof. of ECE
Organized by



Department of Electronics & Communication Engineering

Sri Vasavi Engineering College (Autonomous)

Tadepalligudem, West Godavari District - 534101 (approved by ACTE and affinated to JULIE ME and MAE sets if Smale) (Accredited by MA - US at UK UK CREE ME and MAE sets if Smale) www.srivasaviengg.ac.in

at the College

from the main town Tadepalligudem. West a peaceful and pollution- free location, 5 km away Education. The college is situated at Pedatadepalli, desire to share the responsibilities of the society Godavari District by "Sri Vasavi Educational Society" with a (Autonomous)" was established in the year 200 development of quality Vasavi Engineering Technical College

The college college has a sprawling campus of 25,02 acres road (NH16) and rail (Chennai to Kolkata). The Coastal Andhra Pradesh and is well connected by surrounded by green fields and coconut groves. The town is well known as the commercial hub of in Engineering (EEE, ECE, CSE, ME & CE, CST recognized by UGC under section 2(f) &12(B). The permanently affiliated to JNTU Kakinada and also ECE & CSE are accredited by NBA. accredited by NAAC with "A" Grade. and ECT) along with MBA. The college is College got UGC Autonomous in the year 2018. Programs offered by the departments of EEE, ME, The college offers UG, PG and Diploma Programs is recognized by AICTE Dane

About ECE Department:

members covering all the major areas. experienced and department has a pool of well qualified, highly specialization having an intake of 18. The department also offers PG programme with VLSI undergraduate program in B.Tech (ECE), The view to develop quality engineers to meet the of ECE is established in the year 2001 with a Communication engineering. The Department Vision of the Department is to develop the produce high quality, technically competent department into a centre of excellence and Embedded Systems (VLSI & responsible trends. The research oriented taculty Department Electronics offers

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

However they are independent. technologies and applications in the second FDP and concepts and fundamentals in the first FDP, current futuristic trends and challenges in the third FDP. Note: The FDP is planned in three phases. The basic

Objectives of FDPs:

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

related areas. opportunity to contact with experts in the biomedical signal processing and provide To unfold various research areas under

carry out research in this field. theoretical prerequisites necessary provide sound mathematical for

Course Contents:

- Bio-Signal Processing and Applications
- Transform Techniques
- Acquisition of Bio-signals.
- Medical Image Processing. Bio-Medical Instrumentation.
- Biosensors and Transducers
- Classification Techniques.
- Development of Algorithms
- Hands on sessions on the above topics

Resource Persons:

Prof. M. Ramasubba Reddy,

Madras, Chennai. Professor, Dept. of Applied Mechanics, IIT

Prof. Shaik Rafi Ahamed

Professor of EEE, IITG, Guwahati.

Prof. Ch. Srinivasa Rao.

Professor of ECE, JNTUK UCEV, Vizianagaram.

Prof. N. Balaji,

Kakinada. Professor of ECE, Director IQAC, JNTUK

Dr. Anil Kumar Vuppala

Associate Prof. of ECE, IIITH, Hyderabad

Dr. Vinay Kumar Mitta

Smart Campus) K L University. Professor & Head (Research Consultancy &

*Hands on sessions by industry professionals

Resource Persons

Prof. Shaik Rafi



Prof. M. Ramasubba Reddy Dpt., of Applied Mechanics IIT Madras, Chennai. Professor,

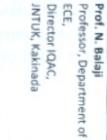




HTG, Guwahati. Department of EEE Professor Ahamed



Prof. Ch Srinivasa Rao Professor, Department of Vizianagaram JNTUK UCEV,





IIITH, Hyderabad Department of ECE, Associate Professor Dr Anlil Kumar Vuppala



Department of ECE, Smart Campus) (Research Consultancy & Professor & Head Dr. Vinay Kumar Mittal

K L University

Tentative Schedule*

| Valedictory | 3:30 PM- 4:00 PM | (SATUARDAY) | |
|---|---|---------------|---|
| Hands on Session on Bio-medical Signal Processing | 10:00 AM - 11:30 AM (Session-1) 02:00 PM - 03:30PM (Session-2) | 17-10-2020 | |
| Topic: Research opportunities in Medical Speech Processing | 02.00 PM - 03.30PM (Session-2) | (FRIDAY) | |
| Session by Dr. Anlii Kumar Vuppala | 10:00 AM - 11:30 AM (Session-1) | 16-10-2020 | |
| Topic: Bio-Medical Signal Processing & Its Applications | 02.00 PM - 03.30PM (Session-2) | (THURSDAY) | |
| Session by Dr. Vinay Kumar Mittal | 10:00 AM - 11:30 AM (Session-1) | 15-10-2020 FN | |
| Topic: Different Transform Techniques used in Bio-Medical signal processing | 02.00 PM - 03.30PM (Session-2) | (WEDNESDAY) | |
| Session by Prof. Ch Srinivasa Rao, | 10:00 AM - 11:30 AM (Session-1) | 14-10-2020 | |
| Topic: Introduction to Bio-Medical Instrumentation | 02.00 PM - 03,30PM (Session-2) | (TUESDAY) | _ |
| Session by Prof. M. RamaSubba Reddy | 10:00 AM - 11:30 AM (Session-1) | 13-10-2020 | |
| Topic: Research Aspects in Bio-Medical Signal Processing | | | - |
| Session by Prof. N. Balaji | 02.00 PM - 03.30PM (Session-2) | (AVGNOW) | |
| Topic: Introduction to Bio-Medical Signal Processing | | 12-10-2020 FN | |
| Session by Prof. Shaik Rafi Ahamed, | 10:00 AM - II:30 AM (Session-I) | | |
| Inauguration | 9:30 AM- 10:00 AM | | |
| TOPIC | TIMINGS | Date & Day | |

Sri Vasavi Engineering College

(Autonomous)

Tadepalligudem, West Godavari District - 534101
(Approved by AICTE and affiliated to JMTUK Rakinada, AP)
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Report On AICTE Sponsored



ONE WEEK NATIONAL LEVEL ONLINE FACULTY DEVELOPMENT PROGRAM

"Research Areas in Bio-Medical Signal Processing" FDP-I

12th -17th October 2020

The department of Electronics and Communication Engineering, Sri Vasavi Engineering College has conducted a Faculty Development Program (FDP-I) on "Research Areas in Bio-Medical Signal Processing "from 12th to 17th October 2020. The FDP program received an overwhelming response with more than 100 participants from various institutes/colleges approved by AICTE. This FDP is planned for one week to comprise 2 technical hands- on sessions & 10 Lecture Sessions on topics Bio-Signal Processing and Applications, Transform Techniques, Acquisition of Bio-signals, Bio-Medical Instrumentation, Medical Image Processing, Biosensors and Transducers, Classification Techniques, Development of Algorithms.

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:

Resource Persons



Prof. M. Ramasubba Reddy Professor, Dpt., of Applied Mechanics IIT Madras, Chennoi.



Prof. Shalk Raffi Aharned Professor Department of EEE BTG, Guwahati.



Prof. Ch Srinivasa Rao Professor, Department of ECE INTUK UCEV, Vizianagarim



Prof. N. Balaji Professor, Department of ECE, Director IGAC, JMTUK, Kakinada



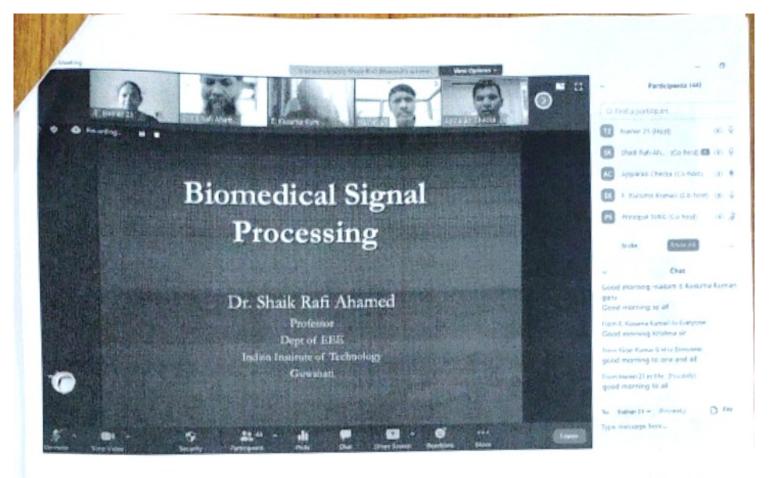
Dr Anil Kumar Vuppele Associate Professor Department of ECE, BITH, Hyderabad

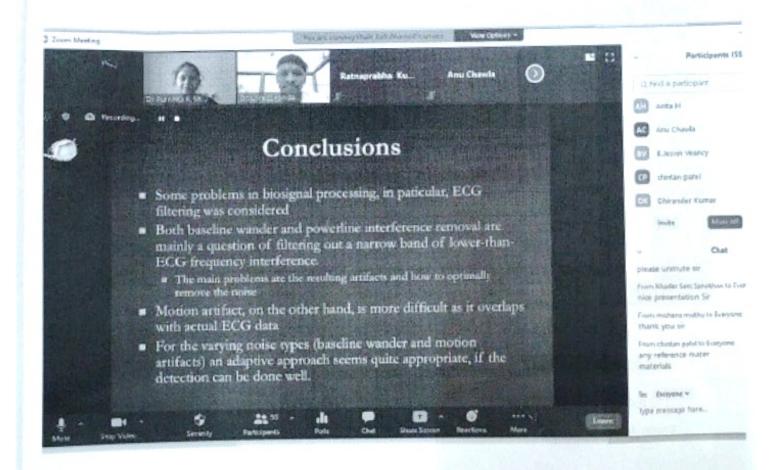


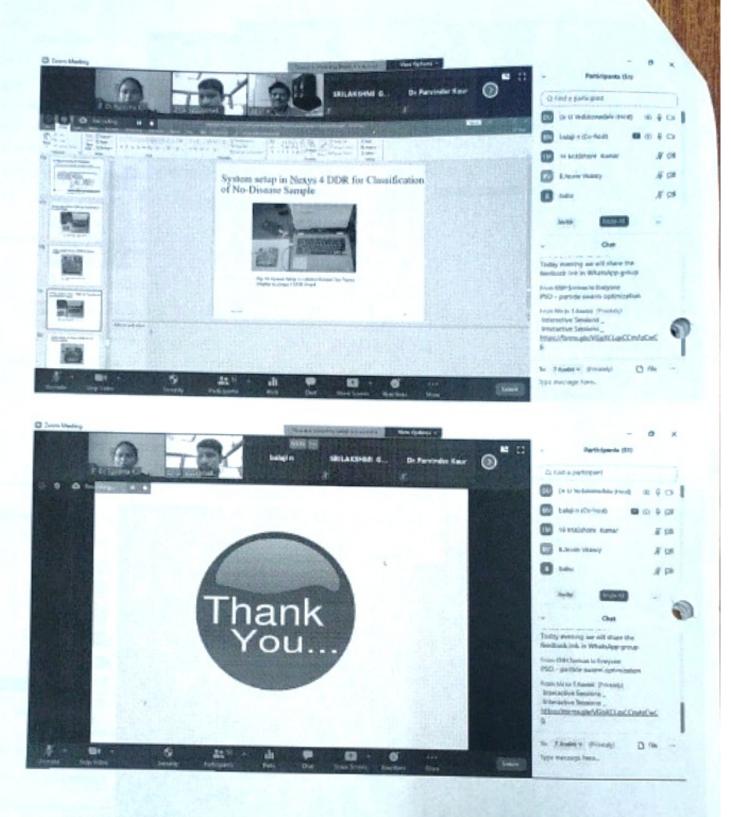
Dr. Vinay Kumar Mittal Professor & Head (Research Consultancy & Smart Campus) Department of ECE, K.L. University

Schedule

| Date & Day | TIMINGS | TOPIC | |
|-----------------------------|---|--|--|
| DES rein | 9:30 AM-10:00 AM | Inauguration | |
| 12-10-2020 FN | 10:00 AM - 11:00 AM (Semion-1) | Session by Prof. Shalik Rafi Ahamed, Topic: Introduction to Bio-Medical Signal Processing | |
| | 02.00 PM - 03.30PM (Sersion-2) | Session by Prof. N. Balaji Topic: Research Aspects in Bio-Medical Signal Processing | |
| 13-10-2020 (TUESDAY) | 10:00 AM - 11:30 AM (Senion-1) 02:00 PM - 03:30PM (Senion-2) | Session by Prof. M. RamaSubba Reddy Topic: Introduction to Bio-Medical Instrumentation | |
| 14-10-2020 (WEDNESDAY) | 10:00 AM - 11:30 AM (Session-1) 02:00 PM - 03:30PM (Session-2) | Session by Prof. Ch Srinivasa Rao, Topic: Different Transform Techniques used in Bio-Medical signal processing | |
| 15-10-2020 FN (THURSDAY) | 10:00 AM - 13:30 AM (Session-1) 02:00 PM - 03:30PM (Session-2) | Session by Dr. Vinay Kumar Mittal Topic: Bio-Medical Signal Processing & its Applications | |
| 16-10-2020 (FRIDAY) | 10:00 AM - 11:30 AM (Session-1) 02:00 PM - 03:30PM (Session-2) | nion-1) Session by Dr. Anlil Kumar Vuopala | |
| 17-10-2020 | 10:00 AM - 11:30 AM (Session-1) 02:00 PM - 03:30PM (Session-2) | Hands on Session on Bio-medical Signal Processing | |
| (SATURDAY) | 3:30 PM- 4:00 PM | Valedictory | |







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 U Yedukondalu. On 17/10/2020. 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 Purnima K Sharma, 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 Three more Phases as per the guidelines given by AICTE as for following scheduled:

FDP Tentative Schedule:

II Week: 16- 11-2020 to 21-11-2020 (FDP-II)
III Week: 14-12-2020 to 19-12-2020 (FDP-III)
IV Week: 01-02-2021 to 06-02-2021 (FDP-IV)

W.

Coordinator Dr U Yedukondalu HOD

Dr E Kusuma Kumari