

FDP on “Recent Trends in Signal Processing”

The ECE department organized A One Week National Level Faculty Development Program on **“Recent Trends In Signal Processing”** from 31st October 2016 to 5th November 2016 in association with E&ICT academy NIT Warangal , Sponsored by Diety, HRD division, ministry of ICT, Govt of India . The chief guest of the program is **Mr. B.Sambi Reddy , Chief Engineer, Efftronics System, Vijayawada.**



Day 01 (31st October 2016):

The faculty development program started at 10.00 AM with the lecture of **Mr. B.Sambi Reddy**. Initially the chief guest explained the necessity in upgrading the knowledge of faculty. He shared the knowledge about railway signaling process, motion detection, 3D imaging etc... with the participants.



Dr. T.Kishore Kumar, HOD, Department of ECE, NIT, Warangal continued the session with an explanation on types of signals ,its analysis in time and frequency domain, processing in OSI etc.....Later **Dr. P.Kishor Kumar**, Assistant Professor, Department of ECE, NIT, Warangal shared his knowledge on fractional bandwidth, RADAR issues in TWL (Through- the- wall image) and UWB(ultra wide band) , penetration property of EM waves etc...

Day 02 (1st November 2016):

Dr. T.Kishore Kumar, HOD, Department of ECE, NIT, Warangal started the session with an explanation on Adaptive Signal processing and filtering, LMS algorithm, RMS algorithm, kalman algorithm etc ...

Day 03 (2nd November 2016):

The day was started with the lecture of **Mr. K.V. Sridhar** who gave a clear cut view on different sampling rates of Digital Audio (Broad cast, Audio CD, DAT) and Digital video(NTSC and PAL) along with interpolation and decimation.

Day 04 (3rd November 2016):

On the fourth day ,the lecture is started by **Mr. M.V. Raghunath** on image processing. The following session is continued by **Dr.J Ravi Kumar**, Assistant Professor, Department of ECE, NIT, Warangal on LMS algorithm and FDA tool followed by a lab session.

Day 05 (4th November 2016):

Dr. V.V.Mani, Assistant Professor, Department of ECE, NIT, Warangal explained about Random Variable Distributions and Channel Models, Probability density function, Gaussian Distribution and random variables. A written test has been conducted for the participants in the following session.

Day 06 (5th November 2016):

Dr.Mallikarjuna Rao , DRDO explained about Social Signal Processing, kalman filter, Extended kalman filter, KKF algorithm etc.... at last FDP is closed with a valedictory function.

Faculty Interaction

The ECE department conducted an **“Interactive program”** on **“Research & Development in Engineering”** on 11th , November. **Prof.P. Siddaiah**, Dean, College of Engineering, Acharya Nagarjuna University is the resource person for the interactive program. The motive of the interaction is **‘To Bring The Awareness Among The Faculty Towards Research & Development’**. Initially the resource person explained about student-faculty relationship with a simple quote :

“To the students, for the students, by the students”

He explained that the published papers are the real assets of the faculty and advised the faculty to publish as many papers as possible.



- A success meet is conducted on 16/11/2016 to thank all the faculty for organizing FDP on “Recent Trends In Signal Processing”.
- All faculty members of ECE department attended for FDP on Research and development on 21/11/2016.
- The NAAC peer committee inspected the college and department from 28/11/2016 to 30/11/2016.

Faculty Achievements:

- Mr. G.Malyadri ,Associate Professor ECE, published a paper on “Electroencephalography (EEG) based automatic Seizure Detection and Prediction Using DWT “in Volume: 03 Issue: 08 of International Research Journal of Engineering and Technology (IRJET). e-ISSN: 2395 -0056, p-ISSN: 2395-0072.
- Dr. M.Siva Ganga Prasad, HOD ECE, presented a paper on “HYBRID OVERLAY/UNDER LAY TRANSMISSION: AN EFFICIENT MECHANISM TO ENCOURAGE PRIMARY USERS TO COOPERATE WITH SECONDARY USERS“ in national conference on RECENT advances in communication & electronics engineering, RACEE-2016, Organised by ECE department , NIT Warangal.
- Dr. M.Siva Ganga Prasad, HOD ECE, presented a paper on “E-SHAPE top loaded octagonal patch antenna for small frequency applications“ in national conference on RECENT advances in communication & electronics engineering, RACEE-2016, Organised by ECE department , NIT Warangal.
- Dr.Md. Zia Rehman , Professor ECE, published a paper on “ANALYSIS OF SYNTHETIC APERTURE RADAR IMAGES USING BRUTE FORCE THRESHOLDING AND GRADIENT GUIDE FILTERS “in Volume: 93 Issue: 01 of Journal of Theoretical and Applied Information Technology -ISSN: 1992-8645, Scopus Journal.



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