



SIGNALS

A Half Yearly News Letter

Department of Electronics And Communication Engineering

PVP Siddhartha Institute of Technology

Autonomous & Permanent Affiliation to JNTUK, Kakinada

AICTE Approved, NBA Accredited and ISO 9001: 2008 certified Institution

(Sponsored by Siddhartha Academy of General and Technical Education)

Kanuru, Vijayawada- 520 0007

Volume: 07

JULY : 2015

Faculty Incharge:
Mrs. D. Hareesha

Inside:

1. Workshops, Guest lectures & Seminars Conducted
2. Training Programmes Conducted/Attended
3. Paper Presentations/Publications by the Faculty
4. Workshops/Seminars/Faculty Development Programs
Workshops Attended By the Faculty
5. Faculty Achievements
6. Faculty Contribution
7. Student Achievements
8. Industrial Visits
9. Student Participation

Quotation:

"The Power of concentration is the only key to the treasure-house of Knowledge"

- Swami Vivekananda

WORKSHOPS, GUEST LECTURES & SEMINARS CONDUCTED:

1. A research seminar was conducted on **"Hybridization of Adaptive beam forming Algorithms"** on 16th July, 2015.

Resource Person:

Dr. Y. Rama Krishna,
Associate Professor, Dept. of ECE,
PVPSIT

2. **"Digital India Week Celebration"** – Awareness on Spoken Tutorial Project of IIT Bombay, Mumbai through a view – Amrita Versity Interactive e-learning world was conducted on 24th July, 2015.
3. A seminar was conducted on **"Personality Development"** for II & III B.Tech., Students on 12th August, 2015 under IETE Students' Forum.

Resource Person:

Professor K.V. SubbaRaju,
Bhimavaram.



4. **Engineers' Day** was celebrated on 15th, September 2015 and conducted a paper presentation contest to III B.Tech. students under IETE Students' forum.

Judges: Mrs. A. Anitha, Sr. Assistant Professor, VRSEC.

Dr.Y.Rama Krishna, Associate Professor, PVPSIT,

5. A **Skill Development Programme** was conducted for II B.Tech. Students under IETE Students' Forum on 8th September, 2015.

Resource Persons:

Mr. D. Rama Krishna, MD, Efftronics Systems Pvt.LTd.,

Mr. Bala Krishna, In-charge R&D Efftronics Systems Pvt.LTd.,

Mr. Rama Samy, Director, R&D Efftronics Systems Pvt. Ltd.,

6. A guest lecture was conducted on "**Placement Opportunities in Core Companies**" on 15th September, 2015 under IETE Students' Forum.

Resource Person:

Mr. Mayank Ranjan,

University Relations Executive, Crane Software, Bangalore

7. A guest lecture was conducted on "**NI-Vision Builder**" on 9th December 2015.

Resource Person:

Mr.K.Suresh Kumar,

Trident Tech Labs Pvt. Ltd., Hyderabad.

TRAINING PROGRAMMES CONDUCTED/ ATTENDED:

1. IV B.Tech. ECE students attended a five day CRT Programme related to Reasoning & Aptitude, Logical and Soft skills from 5th August, 2015 to 9th August, 2015.

PAPER PRESENTATIONS/PUBLICATIONS BY THE FACULTY

1. Dr. P. Rajesh Kumar, HOD & Professor, et.al, "**Hardware Efficient Scheme for Indoor Environment Using Grid Mapping**" British Journal of Applied Science & Technology, ISSN: 2231-0843, Vol 10, PP: 1-14, July 2015.

2. Mrs. T.Haritha, Associate Professor & Ms. T.Sushma, Assistant Professor, published a paper entitled **"A Compact UWB Array Antenna for on body communication"** – (IJESR)- International Journal of Engineering & Science Research, July 2015/ Vol:5/Issue-7/800-805.
3. Mrs. T.Haritha, Associate Professor & Ms. T.Sushma, Assistant Professor, published a paper entitled **"Reduction of Peak to average power ratio in OFDM Systems under generalized fading channels"** (IJESR)- International Journal of Engineering & Science Research, July 2015/ Vol:5/Issue-7/806-811.
4. Mr. Md. Habibulla, Sr. Assistant Professor & Mr. K. Phani Rama Krishna, Assistant Professor et.al published a paper on **"Implementation of Deterministic Energy-Efficient Clustering Protocol"** in Volume 3, Issue 07 July 2015 in IJSRE, ISSN No.2321-7545.
5. Mrs. A. Geetha Devi, Associate Professor et.al published a paper entitled **"Super Resolution Reconstruction in Mixed noise environment"** in International Journal of Computer Applications, Vol.121, No: 12, July, 2015 PP:33- 41.
6. Mrs. B. Swathi Lakshmi, Assistant Professor et.al published a paper entitled **"Design & Simulation of a parabolic Reflector fed by orthomode transfer horn"** in IJSRE, Vol.3, Issue: 8, P.P. 4300-4307 ISSN 2327-7545, Aug. 2015.
7. Dr. P. Rajesh Kumar, HOD & Professor, et.al, **"Fuzzy control for Person Follower FPGA based Robotic system"** in Indian Journal of Science and Technology, vol.8, pp:1-5, September 2015.
8. Dr. C.Subba Rao, Professor presented a paper entitled **"An Octagonal Monopole Antenna for Ultra wide band Applications"**, 13th International Conference on Electro Magnetic Interference and compatibility. (INCEMIC-2015) 22-23 July, 2015 PP551-554, Andhra University, Visakhapatnam.
9. Dr. C. SubbaRao, Professor published a paper entitled **"Analysis of EDGE Terminated wide band Biconical Antenna"**, Applied Computational Electro magnetics Society "ACES" journal vol.30, No: 7, pp 804-809, July 2015.

10. Dr. Ch. Gangadhar, Associate Professor published a paper entitled **“Multiple Antenna Broad casting system using DSFPC-OFDM”** Vol.8, 2015, IJSAE.
11. Ms. D. Swathi, Assistant Professor, & Mr. J. RavindraBabu, Associate Professor Published a paper entitled **“Performance And Comparison Of Linear Multi User Detectors in DS – CDMA Using Chaotic Sequence”** International Journal of Advances in Engineering Research, Vol.10, Issue:3, September, 2015.
12. Mrs. K. Aruna Kumari, Sr. Assistant Professor & Ms. D. Swathi, Assistant Professor published a paper on **“Efficient Data Transmission between Multi user CDMA Histogram Deloader”** Introduction Journal of applied sciences engineering and management, ISSN:2320-3439 volume4, Issue:2, September 2015.
13. Dr. Y.Ramakrishna, Associate Professor published a paper entitled **“Non-Linear Gradient Descent Algorithm for Smart Antennas”**, International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE), Vol.3, No.9, September 2015, pp 8779-8785.
14. Mrs. K. Aruna Kumari, Sr. Assistant Professor, & Ms. D. Swathi, Assistant Professor published a paper entitled **“Energy Efficiency for MIMO-OFDM using Iterative Water Filling Algorithm”** International Journal of Research in Computer and Communication Technology, Vol:4, Issue No:9, pp:719-722, September, 2015.
15. Mrs. K.Anitha, Associate Professor published a paper entitled **“Real Time Digital Signal Processing based on Optical OFDM”**, International Journal of Research in Computer and Communication Technology, Vol.4, Issue No.10, October2015, pp 879-884.

WORKSHOPS/SEMINARS/FACULTY DEVELOPMENT PROGRAMS WORKSHOPS/ATTENDED BY THE FACULTY

1. Dr. K. Ramanjaneyulu, Professor, attended a two day training programme on **"RF Circuit Design Using ADS Software: Hands on Experience"** organized by Sri Vishnu Engineering College for Women in collaboration with Agilent Technologies from 17th June, 2015 to 18th June, 2015.
2. Mrs.V.Ratna Kumari, Assistant Professor, attended a two day MATLAB training programme on **"Feature Extraction and Classification Techniques for Pattern Recognition and Machine Learning Techniques"** conducted by SCS-India, organized by Dept of IT, PVPSIT, Vijayawada from 28th June, 2015 to 29th July, 2015.
3. Dr.P.Rajesh Kumar, Professor and HOD, Dr.K.Ramanjaneyulu, Professor, Dr.C.SubbaRao, Professor, Dr.Y.Ramakrishna, Associate Professor, & Mr. B.Vinod Naik, Assistant Professor, attended a five day short term training programme on **"Practical RF Antenna Design"** organized by NIT, Warangal, from 6th July, 2015 to 10th July, 2015.
4. Dr.Y.Ramakrishna, Associate Professor, Mrs. T.Haritha, Associate Professor, Ms.T.Sushma, Assistant Professor, Mrs.V.Ratna Kumari, Assistant Professor, & Mrs.V.S.D.Rekha, Assistant Professor attended a guest lecture on **"Managing Bharat to make Prosperous, Powerful, Intellectual and Ethical Resource Person"** organized by Dept.of MBA, PVPSIT on 13th July, 2015.
5. Mr.B.Surya Prasada Rao, Associate Professor, Mr.T.Balaji, Sr. Assistant Professor attended a five day short term training programme on **"Digital Image Processing and Its Applications"** from 20th July, 2015 to 24th July, 2015 at NIT Warangal, Telangana.
6. Mr.P.VenuMadhav, Assistant Professor, & Mr.N.S.S.Ganesh, Assistant Professor attended a two day National Workshop on **"Advanced Microcontrollers with Arudino (NW-AMC 2015)"** organized by Dept. of ECE, JNTUK, Kakinada, on 23rd July, 2015 & 24th July, 2015.

7. Mr.J. RavindraBabu, Associate Professor attended one day IEEE workshop on **“Understanding 5G: Perspectives on Future Technological Advancements in Wireless Communication”** organized at Potti Sriramulu Chaluvadi Mallikarjuna Rao College of Engg. and Technology, Vijayawada on 8th August, 2015.
8. Mrs.T. Haritha, Associate Professor & Mrs. K. Anitha, Associate Professor attended a two day workshop on **“Recent Research Techniques In Next Generation Wireless Technologies”** organized by Dept. of ECE, College of Engineering GUINDY, Anna University, Chennai on 21st August, 2015 and 22nd August, 2015.
9. The following faculty members attended a five day Faculty Development Programme on **“Advanced Digital Signal Processing and Applications (ADSP-A)”** at VRSEC, Vijayawada from 9th September, 2015 to 13th September 2015.
 - 1) Mrs. T. Haritha, Associate Professor
 - 2) Mr. M. SrinivasaRao, Associate Professor
 - 3) Mrs. K. Anitha, Associate Professor
 - 4) Mrs. K. Aruna Kumari, Sr. Assistant Professor
 - 5) Mr. B. Samuyelu, Sr. Assistant Professor
 - 6) Ms. T. Sushma, Assistant Professor
 - 7) Mrs. D. Hareesha, Assistant Professor
 - 8) Mrs. B.V. Subbayamma, Assistant Professor
 - 9) Mrs. B. Swathi Lakshmi, Assistant Professor
 - 10) Mrs. V.S.D. Rekha, Assistant Professor
 - 11) Mrs. L. Madhavi Devi, Assistant Professor
 - 12) Mrs. D. PraveenaBai, Assistant Professor
 - 13) Ms. D. Swathi, Assistant Professor
 - 14) Ms. Ch. Sri Lakshmi, Assistant Professor
10. Mr. P. VenuMadhav, Assistant Professor, Mr. A. Ashok Babu, Assistant Professor attended a National Seminar on **“Intelligent Systems”** at KL University on 12th September, 2015.
11. The following faculty members attended a guest lecture on **“Outcome Based Education”** at PVPSIT on 28th, September, 2015.
 - 1) Dr. K. Ramanjaneyulu, Professor

- 2) Dr. Y. Rama Krishna, Associate Professor
- 3) Mr. M. Srinivasa Rao, Associate Professor
- 4) Mr. B. Samuyelu, Sr. Assistant Professor
- 5) Mrs. V. Ratna Kumari, Assistant Professor
- 6) Mrs. D. Hareesha, Assistant Professor
- 7) Mrs. B.V. Subbayamma, Assistant Professor
- 8) Mrs. V.S.D. Rekha, Assistant Professor
- 9) Mrs. B. Swathi Lakshmi, Assistant Professor
- 10) Mrs. D. Praveena Bai, Assistant Professor
- 11) Ms. D. Swathi, Assistant Professor
- 12) Ms. Ch. Sri Lakshmi, Assistant Professor

Resource Person: Professor N. Siva Prasad,

Director, GITAM University, Hyderabad Campus.

12. The following faculty members attended a one week Faculty Development Programme on **“Industrial Automation”** under the National Mission on Education through ICT from 5th October 2015 to 9th October 2015 organized by National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh at PVPSIT conducted by Mechanical Engineering.

- 1) Mr. J. Ravindra Babu, Associate Professor
- 2) Mrs. K. Aruna Kumari, Sr. Assistant Professor
- 3) Mr. P. Venu Madhav, Assistant Professor
- 4) Mr. N.S.S. Ganesh, Assistant Professor
- 5) Mrs. V.S.D. Rekha, Assistant Professor
- 6) Mrs. D. Praveena Bai, Assistant Professor
- 7) Ms. Ch. Sri Lakshmi, Assistant Professor
- 8) Ms. D. Swathi, Assistant Professor

13. The following faculty members attended **“A mind Training Programme”** organized by International Youth Fellowship of South Koreans at PVPSIT, on 18th December, 2015.

- 1) Dr. K. Ramanjaneyulu, Professor
- 2) Dr. T. Haritha, Associate Professor
- 3) Mrs. K. Anitha, Associate Professor
- 4) Mrs. A. Geetha Devi, Associate Professor

- 5) Mr. B.Surya Prasada Rao, Associate Professor
- 6) Mrs A. Aruna Kumari, Sr. Assistant Professor
- 7) Mr. T.Balaji, Sr. Assistant Professor
- 8) Ms.T.Sushma, Assistant Professor
- 9) Mrs.V.Ratna Kumari, Assistant Professor
- 10) Mrs.D.Hareesha, Assistant Professor
- 11) Mr. B.Vinod Naik, Assistant Professor
- 12) Mr. N.S.S.Ganesh, Assistant Professor
- 13) Mrs.V.S.D.Rekha, Assistant Professor
- 14) Ms.D.Swathi, Assistant Professor

14. Dr. Ch. Gangadhar, Associate Professor, Dr.Y.Ramakrishna, Associate Professor, & Mr. Md. Habibulla, Sr. Assistant Professor attended a one day Faculty Development Programme on **"Information Security -Elliptic Curve & Diffe Human Approach"** organized by Dept. of MCA, PVPSIT, on 19th December, 2015.

15. Dr.T.Haritha, Associate Professor, Mrs.K.Anitha, Associate Professor, Mrs.A.Geetha Devi, Associate Professor, & Mr.B.Surya Prasada Rao, Associate Professor attended a one day workshop on **"Engineering Education and Research"** conducted by National Instruments (NI-India) on 29th December, 2015.

FACULTY ACHIEVMENTS:

1. Mrs. T. Haritha, Associate Professor received **Doctor of Philosophy** from, GITAM University, Visakhapatnam on 13th October, 2015.

FACULTY CONTRIBUTION

1. Mrs.V.S.D. Rekha, Assistant Professor, acted as a Judge for JNTUK, Godavari Pushakaram District Level Competition at PVPSIT on 7th July, 2015 regarding Telugu Elocution and Essay writing.
2. Dr. P. Rajesh Kumar, Professor & HOD, acted as a Judge for Project Expo at Sattupalli Engg. College. On 22nd December, 2015.

3. **Dr. K. Ramanjaneyulu**, Professor participated in the round table conference of Vice Chancellor on Technical Universities on Innovations in Engineering Education with Global perspective – A Blended approach during 22nd September 2015 to 23rd September 2015 at JNTUK, Kakinada.

STUDENT ACHIEVEMENTS

1. **Ms. Susmitha Gogineni**, (Reg. No.: 11501A04A9) has been awarded **Gold Medal (JNTUK)** as she stood as a topper among the students of B.Tech. Electronics & Communication Engineering in the University Examinations held during 2011-2015.
2. **Ms. Susmitha Gogineni** (Reg. No.: 11501A04A9), **Girl Topper** in B.Tech. 2015-16 batch and received **Gold Medal** sponsored by Mr. K.Satya Prasad, JNTUK (on the name of Smt. Pushpavathi Gopala krishnaiah Memorial Gold Medal).
3. **Ms. Susmitha Gogineni** (Reg. No.: 11501A04A9) was selected as **Best Outgoing Student** for the year 2015, sponsored by Siddhartha Academy of General & Technical Education, Vijayawada.
4. **Ms. Rayana Anusha** (Reg. No.: 11501A0495) was selected for **Prathibha Award** from JNTUK, for the year 2015.

INDUTRIAL VISITS

1. **II B.Tech. ECE** students visited **"All India Radio"** at Nambur, Labbipet, Vijayawada on 30th July, 2015.

The following faculty members accompanied the students:

Mr. K. Phani Rama Krishna, Assistant Professor

Mr. A. Ashok Babu, Assistant Professor

Ms. Ch. Sri Lakshmi, Assistant Professor

2. **II B.Tech. ECE** students visited **SDSC SHAR, Sriharikota** on 14th September, 2015 and 15th September, 2015.

The following faculty members accompanied the students:

Mr. B. Samuyelu, Sr. Assistant Professor,

Mrs. B. Swathi Lakshmi, Assistant Professor

Mr. G. Rambabu, Embedded Engineer.

3. **III B.Tech., ECE** students visited the following places from 9th December, 2015 to 15th December, 2015.

- a) I.I.Sc., Bangalore
- b) HAL Heritage Center and Aero Space Museum
- c) Mokshagundam Visveswaraya Museum
- d) Mysore
- e) Ooty Tea factory

The following faculty members accompanied the students:

Mr. J. RavindraBabu, Associate Professor

Mr. B. Surya Prasada Rao, Associate Professor

Mrs. L.Madhavi Devi, Assistant Professor

STUDENTS PARTICIPATION

1. **II & III B.Tech.** ECE students attended a guest lecture on **“Industry Trends in Embedded Systems and Network Communications”** on 3rd October, 2015.

Resource persons:

Mr. M. Chenna Kesava Reddy, MD Epiteme Soft Pvt. Ltd., Hyderabad.

2. **III B.Tech. ECE** students visited Old age home at Kanuru, Pedavutupally on 15th October, 2015 under IETE Students' forum on behalf of Dr. APJ Abdul Kalam's Birth. The following faculty members accompanied the students.

- 1). **Dr. P. Rajesh Kumar**, Professor & HOD.
- 2). **Dr. T. Haritha**, Associate Professor
- 3). **Mrs. K. Anitha**, Associate Professor
- 4). **Mr. B. Surya PrasadaRao**, Associate Professor
- 5). **Mr. N.S.S. Ganesh**, Assistant Professor
- 6). **Mr. G. Rambabu**, Embedded Engineer
- 7). **Mrs. K. Vijaya Lakshmi**, Lab Technician
- 8). **Ms. Lahari Ratnanjali**, Lab Technician

3. **III B.Tech. ECE** students visited and participated in Elocution & Painting Competitions held on 7th October, 2015 at Gandhi Hills, Vijayawada which was organized by SHAR on '**International Space Day**'.

60 students visited the SHAR Exhibition and 15 students participated in competitions.

Mr. M.T.D.S. Phaneendra got **Ist** Prize in **Elocution**.

Topic: "Space Debries"