



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: 05

JULY : 2014

Faculty Incharge:
Mrs. D. Haresha
Assistant Professor

Inside:

1. Workshops, Guest lectures & Seminars Conducted
2. Training Programmes Conducted
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. Industrial Visits
8. Student Participation

Quotation:

*"Take Risks in Your Life"
If you win, You can Lead
If you Loose, You can Guide
- Swami Vivekananda*

WORKSHOPS, GUEST LECTURES & SEMINARS CONDUCTED:

1. An Expert Lecture was conducted on **"Opportunities for Higher Education in USA & Advances in Mobile Computing"** under IETE Student Forum on 30th July, 2014.

Resource Person:

Dr Sri Hari Nelakuditi, Professor,
Dept.of CSE, University of South Carolina.



2. A Research Seminar was conducted on **"Mitigation of Synchronization Errors in OFDM System over generalized Fading Channels"** on 21st August, 2014.

Resource Person:

Mrs.T.Haritha, Associate Professor, ECE.

3. A Guest lecture was conducted on "***Career Planning for Engineering students***" under IETE Student Forum on 20th September, 2014.

Resource Person:

Mr.A. Satish,

IRS, Senior Engineer,

South Central Railway, Guntur Division.



4. Teacher's day was celebrated on 5th September, 2014 under IETE student Forum at the Institutional Level and felicitated **Dr.J.RajendraPrasad,** Professor & HOD, Dept. of Information Technology.



5. "***TI Analog Design Contest***" was conducted at PVPSIT for ECE, EEE & ECM students from 24th October, 2014 to 7th November, 2014.

Co-ordinated by **Mr. N.S.S.Ganesh,** Assistant Professor, ECE.

TRAINING PROGRAMMES CONDUCTED:

1. A Two day In-house faculty training programme was conducted on ***“NI Lab VIEW and Robotics”*** from 04th July, 2014 to 5th July, 2014.

Resource Person:

Mr. N. Siva Kumar,

Starcom International Ltd., Bangalore

2. Under IQAC A One day training programme was conducted on ***“Radar Communications”*** on 26th August, 2014 for IV B.Tech Aeronautical Engineering students.

Resource Persons:

Dr.C.SubbaRao, Associate Professor, ECE

Mrs. B.V.Subbayamma, Assistant Professor, ECE

MrsB.Swathi Lakshmi, Assistant Professor, ECE



3. A Two day training programme was conducted on ***“DSP Using DSK6713”*** from 6th September, 2014 to 7th September, 2014.

Resource Person:

Mr. S. Dinesh Babu, Cranes Software International Ltd., Bangalore.

4. A Three Day Certified Coursework was conducted on ***"Overview on latest Telecom Technologies"*** by BSNL, Vijayawada, for IV B.Tech ECE students from 22nd October, 2014 to 24th October, 2014.

Co-ordinated by **Mr.Habibulla Md.**, Sr. Assistant Professor, ECE.

Resource Persons:

Mr.K.Srinivas, Sr.SDE, BSNL,VJA

Mr. P,Raju, Sr.SDE, BSNL,VJA

Mr.V.Vijay Kumar, Sr.SDE, BSNL,VJA

Mr.P.Ravi Kumar, Sr.SDE, BSNL,VJA

Mr.T.Rama Krishna, Jr. Telecom Officer, BSNL, VJA

5. A Two day training programme was conducted on ***"PCB Design and Making"*** from 14th November, 2014 to 15th November, 2014 for II B.Tech ECE students.

Resource Persons:

Mrs. V.RatnaKumari,Assistant Professor,ECE

MrsB.Swathi Lakshmi, Assistant Professor,ECE

Ms.D.Swathi, Assistant Professor, ECE

Ms.R.Parvathi, Efftronics Systems Pvt Ltd.

Ms.Reshma, Efftronics Systems Pvt Ltd.



PAPER PRESENTATIONS/PUBLICATIONS BY THE FACULTY

1. **Dr. P.Rajesh Kumar**, Professor & HOD, presented a paper entitled ***“Person follower Robotic System”*** in the International Conference ICCICCT-2014 held from 10th July, 2014 to 11th July, 2014 and Received “Best paper Award”.
2. **Dr. K. Ramanjaneyulu**, Professor, presented a paper entitled ***“Performance of Turbo Coded OFDM System”*** in the technical session of the 3rd International Conference on Innovations in ECE (ICIECE-2014) held from 18th July, 2014 to 19th July, 2014.
3. **Mrs. K.Anitha**, Associate Professor, published a paper entitled ***“High Accuracy Range Measurement System”*** in International Journal of Engineering & Science Research (IJESR-2014), Vol. 4, Issue 9, Page No: 504-509, September, 2014.
4. **Mr. B. Surya PrasadaRao**, Associate Professor & **Dr. K. Ramanjaneyulu**, Professor presented a paper entitled ***“Knowledge Management practices in Higher Education”*** in a National Seminar on “Innovations in Higher Education” Organized by the IQAC held on 7th& 8th November 2014 at P.B. Siddhartha College of Arts & Sciences, Vijayawada-10.
5. **Mrs. K.Anitha**, Associate Professor, published a paper entitled ***“Low Complexity Range Measurement System”*** in International Journal of Scientific Research & Education (IJSAR-2014), Vol-2, Issue 11, Page No: 2362-2370, November, 2014.
6. **Mrs. A. Geetha Devi**, Associate Professor, presented a paper entitled ***“A Novel Hybrid Algorithm for Tracking & Super Resolution Enhancement of a Moving Object”*** at International Conference on Electrical & Electronics Engineering Trends Communication, Optimization and Sciences (EEECos) 11th – 12th October 2014, at Dhanekula Institute of Engineering & Technology, Vijayawada, A.P. India.

7. **Mrs. A. Geetha Devi**, Associate Professor, presented a paper titled **“Super Resolution Reconstruction of Multiple Low Resolution Images Degraded by Impulse Noise”** at International Conference on Electrical & Electronics Engineering Trends Communication, Optimization and Sciences (EEECOS) 11th – 12th October 2014, at Dhanekula Institute of Engineering & Technology, Vijayawada, A.P. India.
8. **Mr. M. Srinivasa Rao**, Associate Professor published a paper titled **“An enhanced Interference alignment using Nuclear Norm with Heuristic Technique for MIMO Broad cost channels”**, IJESR, Oct.2014, Vol.4, Page No:695-702.
9. **Mrs. A. Geetha Devi**, Associate Professor, presented a paper titled **“A hybrid super resolution technique using adaptive sharpening filter based on kernel regression for restoration”** at ICCNT-14, at Mepcoshlenk engineering college, Sivakasi, Tamilnadu held on 18th& 19th December 2014 at.

WORKSHOPS/SEMINARS /FACULTY DEVELOPMENT PROGRAMS WORKSHOPS

ATTENDED BY THE FACULTY

1. **Mrs. V.RatnaKumari**, Assistant Professor, **Mrs. B.Swathi Lakshmi**, Assistant Professor, **Ms.D.Swathi**, Assistant Professor, attended a One Week Workshop on **“PCB Designing- Hands on practice”** organized by Efftronics Systems Pvt Ltd., Vijayawada from 30th June, 2014 to 5th July, 2014.
2. **Dr C.SubbaRao**, Associate Professor, **Mrs.K.Anitha**, Associate Professor, **Mrs. A. Geetha Devi**, Associate Professor, **Mrs.V.S.D.Rekha**, Assistant Professor, **Mrs.D.PraveenaBai**, Assistant Professor, **Ms.D.Swathi**, Assistant Professor, **Ms.T.Sushma**, Assistant Professor, **Mrs.B.Swathi Lakshmi**, Assistant Professor, attended One day training programme on **“Effective Teaching Methodologies”** organized by ISTE CHAPTER-PVPSIT

in association with Dept of Computer Applications, PVPSIT, on 26th July, 2014.

3. **Mrs. D.Hareesha**, Assistant Professor, **Mrs. L.Madhavi Devi**, Assistant Professor, **Mr. B.VinodNayak**, Assistant Professor, attended a Two Day National level Workshop on ***“Signal Processing and Wireless Communications”*** organized by Dept.of ECE, Bapatla Engineering College, Bapatla, from 25th June, 2014 to 26th July, 2014.
4. **Mr. K.PhaniRama Krishna**, Assistant Professor, attended ***“JNTU-CoEeRD Orientation Programme”*** organized by LBRCE, Mylavaram on 28th August, 2014.
5. **Mr. G.Rambabu**, Embedded Engineer, attended a Two Day Workshop on ***“A Practical Approach on Embedded System”*** organized by GEC, Gudlavalleru from 20th August, 2014 to 21st August, 2014.
6. **Mr. P.Venu Madhav**, Assistant Professor, attended A Two day National Workshop on ***“Awareness of RF Simulation Tools”*** organized by Dept. of ECE, KLU, on 31st October, 2014 & 1st November, 2014.
7. **Mrs. T. Haritha**, Associate Professor, **Mrs. K. Anitha**, Associate Professor, **Ms. T. Sushma**, Assistant Professor, **Mrs. D. Hareesha**, Assistant Professor, **Mrs. B.V. Subbayamma**, Assistant Professor, **Mrs. B. Swathi Lakshmi**, Assistant Professor attended one week Faculty Development Program on ***“Recent Trends in Systems & Signal Processing”*** (RTSSP-14) organized by Dept. of ECE., LBRCE, Mylavaram from 22nd December 2014 to 27th December 2014.
8. **Mr. Habibulla Mohammad**, Sr. Asst. Prof. Dept. of E.C.E. has attended one week workshop on ***“Cellular and Wireless Communications”*** organized by K.L. University From 8th December, 2014 to 13th, December 2014.

FACULTY ACHIEVMENTS:

1. **Mr. C. SubbaRao**, Associate Professor, received **Doctor of Philosophy (PhD)** from JNTU, Hyderabad on 9th May, 2014.
2. **Mr.Ch.Gangadhar**, Associate Professor, received **Doctor of Philosophy (PhD)** from Osmania University, Hyderabad on 16th August, 2014.

FACULTY CONTRIBUTION

1. **Mrs.K.Anitha**, Associate Professor, acted as a judge for National Level Technical Symposium EPISTMICON-2014 on 27th September, 2014 at Andhra Layola Institute of Engineering & Technology, Vijayawada.

INDUSTRIAL VISITS

1. **III B.Tech.** Students visited **"Efftronics System Pvt. Ltd.,"** Vijayawada on 19th July, 2014 and 26th July, 2014.
2. **IV B.Tech.** Students visited **"BSNL"** Vijayawada on 24th October, 2014.
3. **III B.Tech.** students visited
 - a) **I.I.Sc.**, Bangalore on 10thOctober, 2014.
 - b) **HAL Heritage Center and Aero Space Museum**, Bangalore on 11thOctober, 2014.
 - c) **Visveswaraya Industrial and Technological Museum**, Bangalore on 11thOctober, 2014.

STUDENT PARTICIPATION

Reg.No.	Name of the student	Year of study	Name of the Institute	Paper/poster/Project contest details (Held)	Title of the paper/project
11501A0441	K. Chanakya	IV	Koneru Lakshmaiah University, Guntur	SAMYAK	Automated Irrigation System
12501A0427 12501A053	D. Rajinikanth Reddy K. NagaPrudhvi	II	L. B. Reddy College of Engineering, Mylavaram, Krishna(Dist.)	26 th July'14	Wireless Communication Using Microwaves
11501A0435 11501A0433	K. Sravani J. Pavani	III	JNTUK,Kakinada	20 th Mar'14	Millipede
11501A0457 11501A0430	M. Anusha G. SriLakshmi	III	JNTUK,Kakinada	20 th Mar'14	Achievable Diversity V/S Multiplexing Trade Off Inco-Operative Channels
12501A0462	M. Vikram	II	L. B. Reddy College of Engineering, Mylavaram, Krishna(Dist.)	26 th July'14	Wireless Communication



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Volume: 06

JANUARY: 2015

Faculty Incharge:

Mrs. D. Hareesha

Assistant Professor

Inside:

1. Workshops, Guest lectures & Seminars Conducted
2. Training Programmes Conducted
3. Paper Presentations/ Publications by the Faculty
4. Workshops/Seminars/Faculty Development Programs Workshops Attended by The Faculty
5. Faculty Achievements
5. Details of Major/ Minor Research Projects
6. Faculty Contribution
7. Industrial Visits
8. Student Participation

Quotation:

If I have the belief that I can do it, I shall surely acquire the capacity to do it even if I may not have it at the beginning

- Mahatma Gandhi

WORKSHOPS, GUEST LECTURES & SEMINARS CONDUCTED

1. A Guest lecture was conducted on “**Leveraging ICT’s for Building Smart Cities**” on 21st January 2015.

Resource Person:

Sri. V. Sundar, Sr. General Manager Telecom, BSNL, Vijayawada.



2. A Guest lecture was conducted on “**Recent Trends in Microwave Engineering**” on 12th February 2015.

Resource Person:

Dr. P.V.D. Soma Sekhar, Professor, JNTUH



TRAINING PROGRAMMES CONDUCTED:

1. A Two Day Workshop was conducted on "*Embedded System Design using TI MSP430 Microcontroller Development Tools*" on 2nd&3rd February, 2015 for III B.Tech ECE students.

Resource Person:

Mr.M.Narendra, Sr Engineer, Starcom Infotech Ltd., Bangalore.



2. A Four day training programme was conducted on "*Telecom Technologies*" from 5th March, 2015 to 8thMarch, 2015 for III B.Tech ECE students.

Co-ordinated by **Mr.Habibulla Md.**, Sr. Assistant Professor, ECE, PVPSIT &

Mr. P. Raju, Sr. SDE, BSNL, Vijayawada.

Resource Persons:

1. **Mr. K. SwarnaLatha**, JTO (Broad Band)
 2. **Mr E. SrinivasaRao**, Sr. SDE (Transmission)
 3. **Mr K. Ravi Kumar**, Sr. SDE (GSM)
 4. **Mr V. Yedukondalu**, JTO (Trg.)
 5. **Mr R.V. Vijay Kumar**, Sr. SDE (Switching)
 6. **Mr T. Rama Mohan**, JTO (CDMA)
 7. **Mr D. SrinivasaRao**, JTO (Trg.)
 8. **Mr P.Ravi Kumar**, Sr.SDE, BSNL,VJA
 9. **Mr T.Rama Krishna**, Jr. Telecom Officer, BSNL, VJA
3. *"TI Analog Design Contest"* was conducted at PVPSIT for ECE, EEE & ECM students on 24.02.2015 to 27.02.2015, 02.03.2015, 16.03.2015, 18.03.2015 &19.03.2015.

Co-ordinated by **Mr. N.S.S.Ganesh**, Assistant Professor, ECE.

PAPER PRESENTATIONS/PUBLICATIONS BY THE FACULTY

1. **Mrs.K.Anitha**, Associate Professor, presented a paper entitled *"A Robust Ultrasonic Distance Measurement System with Discreet Extended Kalman Filter"* in International conference on Electrical, Electronics, Signals, Communication and optimization on 24th& 25th January 2015.
2. **Mr.J.Ravindrababu**, Associate Professor, Published a paper entitled *"Performance Improvement and Complexity Reduction in MC-CDMA System using Coding Techniques"* Discovery ANALYSIS the International journal ISSN 2278 – 5469 EISSN 2278 – 5450 Vol:28, Issue : 102 Pp:7-14 Feb 2015.
3. **Dr. K.Ramanjaneyulu**, Professor, presented a paper entitled *"Literature Survey on Digital Image Watermarking"* in the proceeding of International Conference, ACMICARCSET – 2015.

WORKSHOPS/SEMINARS /FACULTY DEVELOPMENT PROGRAMS WORKSHOPS

ATTENDED BY THE FACULTY

1. **Dr.K.Ramanjaneyulu**, Professor, **Mr.B.Vinod Naik**, Assistant Professor participated in National Seminar on *"Embedded System Design: Tools & Applications"* organized by Dept. of CSE of VRSEC., on 5th January, 2015.
2. **Dr.C.SubbaRao**, Associate Professor, **Mr.B.Vinod Naik**, Assistant Professor, **Ms. Ch.Srilakshmi**, Assistant Professor attended a Two Day Workshop on *"Embedded System Design using TI MSP430 Microcontroller Development Tools"* conducted by Dept. Of ECE, PVPSIT on 2nd& 3rd February, 2015.
3. **Mr. B.Vinod Naik**, Assistant Professor attended a Three Day Intensive course on *"Electromagnetic Theory and Transmission Lines"* organized by JNTUH college of Engineering, Jagtial, Karimnagar(Dt) from 2nd March, 2015 to 4th March, 2015.
4. **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.

FACULTY ACHIEVMENTS

1. **Mr. Y. Rama Krishna**, Associate Professor, received **Doctor of Philosophy (PhD)** from JNTU, Kakinada on 12th, June, 2015.

DETAILS OF MAJOR/ MINOR RESEARCH PROJECTS

Sl. No.	Name of the Major/Minor Research Project	Principal Investigator	Grant Amount	Year of Grant
1.	Development of socially Assistive Robos for elders & Physically challenged	Dr. P. Rajesh Kumar Mrs. K. Anitha	8.75 Lakhs	2013
2.	Development of Microwave sterilization unit for Poly Ethylene(PET) cans	Dr. C. SubbaRao	4.35 Lakhs	2014
3.	Recognition of moving objects based on super resolution algorithms	Mrs. A. Geetha Devi	2.30 Lakhs	2014
4.	Design and Development of an Embedded Ear Recognition System	Mrs. V. Ratna Kumari	4.5 Lakhs	2014

FACULTY CONTRIBUTION

1. **Mrs. A. Geetha Devi**, Associate Professor went as a resource person to a Two day workshop on *"Image Processing using MAT Lab"* organized by Dept. of ECE Swarnandhra Institute of Technology, Narasapuram from 06th January, 2015 to 7th January,2015.
2. **Dr. K. Ramanjaneyulu**, Professor acted as a judge for ACM ICARCSET-2015 International Conference, on 6th March, 2015, Eluru.
3. **Mr. M. Srinivasa Rao**, Associate Professor, acted as a judge for paper presentation at Dhanekula Institute of Technology, on 6th March 2015.

INDUSTRIAL VISITS

- 1.II **B.Tech.** students visited SDSEC, SHAR Sriharikota on 11th& 12th February 2015.

STUDENT PARTICIPATION**With Prizes**

S.no	Reg. No.	Name of the Student	Year of study	Name of the Institute	Paper/poster /Project contest details (Held on)	Title of the paper /project	Prizes
1	12501A0497	S. Shanmukh	III	Vignan Uty,Guntur	15 th Sep'14	Wireless Communication	I
2	12501A0497 12501A0484	S. Shanmukh P. Manoj Prudhvi	III	Gudlavalleru Engineering college, Gudavallaru	19 th Feb'15	Utilization of ultra-Sonics for making a Tangible Hologram	I
3	12501A0462	M. Vikram	III	MIC College of Engg., Kanchikacherla, Krishna, Dist.	AAgama-2015,19 th Feb'15	OPALS(Optical Payload for Laser comm. Science)	I
4	12501A0497	S. Shanmukh	III	Dhanekula Institute of Engg. & Technology, Ganguru,Krishna (Dist.)	3 rd Mar'15	Utilization of Ultrasonic for making a tangible Hologram	I
5	12501A0497	S. Shanmukh	III	Sri Vasavi Institute of Engg. & Tech. Nandamuru,	16 th Mar'15	Utilization of ultrasonic for making a tangible Hologram	I
6	12501A0462	M. Vikram	III	SRK College of Engg., Enikepadu, Krishna (Dist.)	2 nd Mar'15	OPALS(Optical Payload for Laser communication Science)	II
7	12501A0462	M. Vikram	III	C R Reddy Engineering College, Eluru, W.G(Dist.)	4 th Mar'15	OPALS(Optical Payload for Laser comm. Science)	III
8	13505A0411 12501A0456	K. Sai Ram M.S.K. Phanindra	III	C R Reddy Engineering College, Eluru, W.G(Dist.)	4 th Mar'15	Detection of Cracks In Railway Tracks Using Ultrasonic Sensors	II
9	12501A0494 12501A0464	Shaik. Shaheena Yasmin M. Soumitha	III	IETE, Krishna (Dist.)	1 th Feb'15	Ultra Wide Band Technology	III
10	13501A0476 13501A0493 13501A0462	M. Hari Sai Dinesh P.S.R. S. Sarma M. Juhitha	II	SRK College of Engineering, Enikepadu, Krishna (Dist.)	12 th Jun'15	Line Follower and obstacle Avoidance Robot (Project)	I

Without Prizes

S.No.	Reg.No.	Name of the student	Year of study	Name of the Institute	Paper/poster/Project contest details (Held on)	Title of the paper/project
1	12501A0482 12501A0495	P. Lavanya S.K.S.A. Gulbahar	III	V. R. Siddhartha Engg. College, Vijayawada, Krishna(Dist.)	5 th Feb'15	Wireless Vision
2	12501A04B6 12501A04B0 13505A0413	Y. Dedeepya V. Kalyan K.V.V. K.Rao	III	Vignan University, Guntur	29 th Jan'15	Rfid Smart Vehicle Parking System (Project)
3	12501A0401 12501A0418	A.Nageena CH, Ganga	III	Dhanekula Institute of Engineering & Technology, Ganguru, Krishna (Dist.)	3 rd Mar'15	Touch Screen Sensors
4	12501A0472	N. Eswari	III	KL University, Guntur	26 th Feb'15	Brain Machine Interface
5	12501A0494 12501A0438	Sk. Shaheena Yasmin I. Yamini	III	CR Reddy Engineering College, Eluru, W.G.(Dist.)	4 th Mar'15	Embedded Systems
6	12501A0480 12501A0490	V. Sai poornitha S. Ramya Sri	III	Vijaya Institute of Tech. for Women, Enikepadu, Krishna (Dist.)	25 th Feb'15	Smart note Taker
7				KKR & KSR Institute of Technology & Sciences Guntur(Dist.)	22 nd Feb'15	OPALS(Optical Payload for Laser communication Science)
8	12501A0462	M. Vikram	III	Potti Sriramulu Chalavadi Mallikharjuna Rao College of Engineering and Technology,	2 nd Mar'15	
9				Dhanekula Institute of Engineering & Technology, Ganguru, Krishna(Dist.)	3 rd Mar'15	
10	12501A0471 12501A0484	N. Arunkumar P. ManojPrudhvi	III	SRK Engineering College, Krishna(Dist.)	2 nd Mar'15	3d Printing
11	12501A0471 12501A0484	N. Arunkumar P. ManojPrudhvi	III	Dhanekula Institute of Engineering & Technology, Ganguru, Krishna(Dist.)	3 rd Mar'15	Screenless Display
12	13501A0450	K. Ashok	II	Vidya Jyothi Institute of technology, Hyderabad	3 rd May'15	Multi Source Solar Machines For Agriculture
13	13501A0476 13501A0493 13501A0462	M. HariSai Dinesh P.S.R. S. Sarma M. Juhitha	II	IIIT, Nuzividu, Krishna(Dist.)	Feb'15	Line Follower And Obstacle Avoidance Robot