



SIGNALS

A Half Yearly News Letter

Department of Electronics And Communication Engineering

P.V.P 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

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Faculty Incharge:
Mrs. D. Hareesha,
Assistant Professor

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Quotation:

Success Is Falling Nine Times and Getting Up Ten

-Jon Bon Jovi

1. Workshops, Training Programmes, Guest Lectures & Seminars Conducted:

- i. A Two day Training programme was conducted on “NI-MY DAQ” on 18th & 19th July, 2017.

Resource Person: Mr. Suresh,

National Instruments, Bangalore.

- ii. A guest lecture was conducted on “Skill Development Programme” on 21st July, 2017 for II B.Tech. students, under IETE Student Forum.

Resource Person: Dr.V.Subba Raju, Professor,

SRKR Engg.College, Bhimavaram.

- iii. A One day National Convention was organized on “Recent Trends in Wireless Communication Technologies” on 29th July, 2017 in association with “National Instruments India” Bangalore.

Chief Guests:

- i. **Mr. Solaikutty Dhanabal,**

Academic Programme Manager, IndRAA

- ii. **Dr. K. Raghunadh,** Group Head, NARL, Tirupathi.

- iii. **Mr. Murali Krishna Elumalai,** Director, Optithought Chennai.



iv. “**Art of Living**” an Awareness Program was conducted on 4th August, 2017 and Training Session was conducted from 18th August, 2017 to 20th August, 2017. 9 faculty members attended.

v. On the eve of **Engineers Day Tech wizard -2k17** was conducted on 13th September, 2017 for II & III B.Tech. students by IETE Student Forum.

- Events Organized:** -
- a) Engineer’s Eye
 - b) Bug Identification
 - c) Tech Talk
 - d) Battle of Bread Boards

vi. On the eve of **Engineers Day** 15th September, 2017 **Project Model Exhibition** was organized and 741 school students visited labs of college and Project Expo.

vii. A Training Programme was conducted on “**PCB Design**” on 18th& 19th September, 2017 for III B.Tech. students.

viii. A guest lecture was conducted on “**Opportunities in various Govt. depts.**” on 23rd September, 2017 for III B.Tech. students.

Resource Person: Ms. G. Shilpa, Income Tax Officer.



- ix.** A guest lecture was conducted on “**Time Frequency Analysis of Speech Signals and Speech Application Demo**” on 6th October, 2017 for III B.Tech. year students.

Resource Person: Dr. Anil Kumar Uppala,

Assistant Professor, IIT Hyderabad.

- x.** An awareness program was conducted for III B.Tech. students on “**How to prepare for GRE,TOEFL,IL & Further opportunities after completion of Graduation**” by Princeton Review Institute, Vijayawada on 28th November, 2017.

- xi.** A Two day Training Program was conducted on “**Mentor Graphics EDA Tools**” on 17th & 18th November, 2017 for faculty and III B.Tech. students.

Resource Person: Mr. P. Srinidhi, Application Engineer

Trident Tech. Labs, Hyderabad.

- xii.** A guest lecture was conducted on “**How to prepare for GATE & opportunities for higher education in USA**” 19th December, 2017 for II B.Tech. students.

Resource Person: Mr. G. Santhosh Kumar, A.O. GATE Academy, Vijayawada.



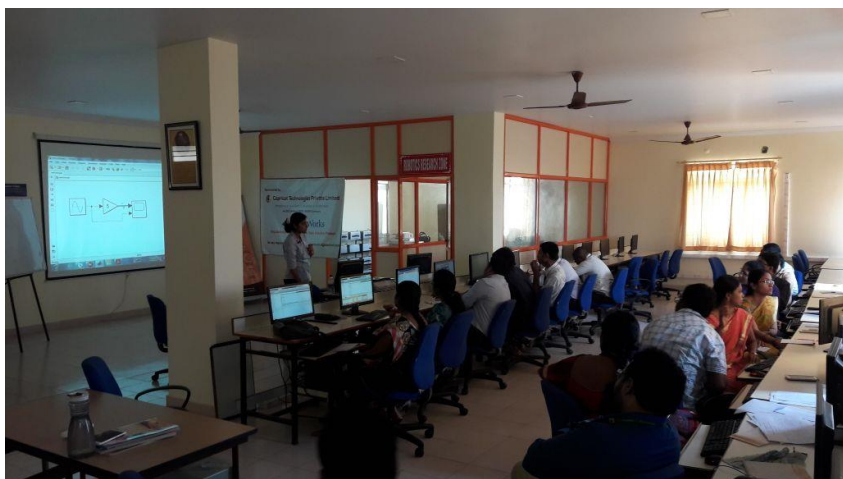
- xiii.** A Faculty Development Programme was conducted on “**Signal Processing with Simulink**” from 13th December, 2017 to 15th December, 2017.

Resource Person: Mr. Elza John, Training Engineer, Mathworks India Pvt. Ltd.,

Faculty Participants: Mrs. K. Anitha, Associate Professor

Dr. A. Geetha Devi, Associate Professor

Mrs. D. Haresha, Assistant Professor



- xiv. A guest lecture was conducted on "**Opportunities for Higher Education at George Mason University**" on 26th December, 2017.

Resource Person: Rao V. Mulpuri, Professor,
George Mason University, USA.

2. Workshops/Seminars/Conferences/Faculty Development Programs Attended By The Faculty:

- i. **Mr. K. Phani Rama Krishna**, Assistant Professor attended workshop on “**New Trends in Teaching Methodologies**” at Narasaraopeta Engg College from 10th July, 2017 to 14th July, 2017 organized by JNTUK.
- ii. **Mrs.D.Hareesha**, Assistant Professor & **Mr.P.V.Venu Madhav**, Assistant Professor attended one day workshop on “**MEAN STACK Development**” on 17th July, 2017 organized by Dept. of CSE, PVPSIT.
- iii. **Dr.A.Geetha Devi**, Associate Professor and **Mrs.V.Ratna Kumari**, Assistant Professor attended “**LabVIEW CLAD Training program**” on 18th & 19th July, 2017.
- iv. **Mrs.K.Aruna Kumari**, Sr. Assistant Professor & **Ms.T.Sushma**, Assistant Professor attended Two week workshop on “**Andhra Pradesh Higher Education English Communication Skills Project**” from 10th July, 2017 to 14th July, 2017 & 24th July, 2017 to 28th July, 2017.

- v. **Dr.K.Ramanjaneyulu**, Professor attended two day workshop on “**Finite Element Analysis of Structures (FEAST) Software**” on 3rd and 4th August, 2017 organized by Dept. of CSE, PVPSIT.
- vi. **Mr.T.Balaji**, Sr.Assistant Professor, **Mrs.D.Hareesha**, Assistant Professor, **Mrs.B.V. Subbayamma**, Assistant Professor **Mrs.L.Madhavi Devi**, Assistant Professor & **Mr. N.S.S Ganesh**, Assistant Professor attended two day workshop on “**Advances in Electronics and Communication Engineering (AECE – 2017)**” on 26th & 27th August, 2017 at JNTUK, Kakinada.
- vii. **Dr.K.Ramanjaneyulu**, Professor, **Dr.T.Haritha**, Associate Professor, **Dr.A.Geetha Devi**, Associate Professor attended a session on “**Nuances and Tools of Scientific Publishing in an FDP**” organized by Dept. of CSE, PVPSIT on 29th August, 2017.
- viii. **Dr.K.Ramanjaneyulu**, Professor attended “**NI Engineering & Research Seminar**” at Fortune Murali Park, Vijayawada on 26th September, 2017.
- ix. **Mrs.D.Praveena Bai**, Assistant Professor and **Mrs.T.Maha Lakshmi**, Assistant Professor attended a One day State Level Workshop on “**Advanced Image Processing Techniques**” held at Gudlavalleru Engineering College in Association with Indian National Science Academy (INSA) on 23rd September, 2017.
- x. **Dr.K.Ramanjaneyulu**, Professor attended **NI Engineering Education & Research** seminar on 4th October, 2017 at Fortune Murali, Vijayawada.
- xi. **Mr.N.S.S.Ganesh**, Assistant Professor & **Mr.B.Vinod Naik**, Assistant Professor attended **Innovation Fair** on 7th October, 2017 at JNTUK, Kakinada.
- xii. **Dr. K. Ramanjaneyulu**, Professor attended workshop on “**Deep Learning for Language Processing Image speech & Text DL List-17**” at College of Engineering, Guindy, Anna University, Chennai.
- xiii. **Dr. T. Haritha**, Associate Professor, & **Mrs. K. Anitha**, Associate Professor attended one day FDP on “**Robotics and its Applications**” organized by Robotics Research Centre in Collaboration with Sak Robotics Lab, Startup Center, IIT Bhuwaneswar at PVPSIT on 15th November, 2017.

- xiv. **Mrs K.Aruna Kumari**, Sr.Assistant Professor & **Mrs D.Praveena Bai**, Assistant Professor attended one day workshop on National Convention for Women on 28th November, 2017 at JNTUK, Kakinada.
- xv. **Dr. K. Ramanjaneyulu**, Professor, **Dr. C. Subba Rao**, Professor, **Dr. A. Geetha Devi**, Associate Professor and **Mr. B. Surya Prasada Rao**, Associate Professor attended a one week STTP on “**Intelligent Computing & Deep Learning (COLN2K-17)**” conducted by Department of CSE, PVPSIT from 20th November, 2017 to 25th November, 2017.
- xvi. **Mr. G. Rambabu**, Embedded Engineer attended a two day workshop on “**IOT platforms and their practical Implementation**” held on 8th & 9th December, 2017.
- xvii. **Dr. K. Ramanjaneyulu**, Professor, attended AICTE Organized one day workshop on “**Approval Process 2018-19**” at JNTUH, Kukatpally, Hyderabad on 27th December, 2017.

3. Publications By The Faculty (National/International Journals/Conferences):

- i. **Dr.C.Subba Rao**, Professor published a paper entitled “**Analysis of Wide Band Unequal Cone angle Biconical Antennas**” - Current Journal of Applied Science and Technology (CJAST) Volume:2.2, Issue:2, PP:1-8, July, 2017 DOI 10.9734/CJAST-2017/34742.
- ii. **Mr.J.Ravindra Babu**, Associate Professor, **Mrs.D.Swathi**, Assistant Professor published a paper entitled “**Analysis of Margin Adoptive Resource Allocation in MIMO Systems**” - International Journal of Wireless Communication, Vol:9, No:6, July, 2017 PP:-119-122, ISSN:0974:9756.
- iii.**Dr.Ch.Gangadhar**, Associate Professor, **Mr.Md.Habibulla**, Sr.Assistant Professor published a paper entitled “**Simulation of Gabor Filter Accounting for Finger Print Recognition**”- IJRCCT, Vol:6, No:7, July, 2017.
- iv.**Mr.P.Venumadhav**, Assistant Professor published a paper entitled “**Investigation and Octagonal shape complimented Microstrip Antenna for using CSA Algorithm**” - International Journal for Scientific Engineering research – Vol –issue 8 papers 780-798, 2017.
- v. **Mrs.T.Maha Lakshmi**, Assistant Professor published a research paper entitled “**An efficient Image Noise Estimation Technique using Type -2 Fuzzy set and Genetic Algorithm**”- Journal of Theoretical and applied information Technology Vol:95, No:14, Pages:3413-3421.

- vi. **Mr.P.Venumadhay**, Assistant Professor published a research paper entitled “**Interleaved Metallic Octogonal structures for Low Frequency Applications**”- International Journal of Control Theory and Applications, Vol:10, No:35, Pages:123-131, 2017.
- vii. **Mr.B.Samuyelu**, Sr.Assistant Professor et.al published a research paper entitled “**Normalised Subband Adoptive Filtering with Extended Adaptiveness on Degree of Subband Filters**”- International Journal of Electronics, 2017, Vol:104, Issue: 12, Page: 2048 – 2061.
- viii. **Mr. B. Surya Prasada Rao**, Associate Professor, **Dr. P. Rajesh Kumar**, Professor and HOD published a research paper entitled “**Hybrid Image Fusion Algorithms using Maximum Selection Rule and PCA**” - International Journal of Scientific and Engineering Research, Vol:8, Issue:8 PP: 814:820, August, 2017.
- ix. **Mrs.T.Maha Lakshmi**, Assistant Professor published a research paper entitled “**A Review of Image Estimation Technique using Type-2 Fuzzy set and Genetic Algorithm**” - International Journal of Pure and Applied Mathematics.
- x. **Mrs.V.Ratna Kumari**, Assistant Professor presented a paper entitled “**Hybrid Adaptive Beam Forming Algorithm for Smart Antennas**” on 5th October, 2017 in a conference at ROORKE, IIT.
- xi. **Dr.T.Haritha**, Associate Professor, published a paper entitled “**Power allocation and practical considerations for cognitive radios using power filling Algorithms**” an International Journal of Advance Research and Latest Trends. ISSN: 30-11-3030, Vol.09, issue:04, November, 2017, Pages: 2276-2281.
- xii. **Mrs. K.Anitha**, Associate Professor published a paper entitled “**Scheduling Mechanisms for Wireless Networks using Coarse-Grained Back Pressure Control**” an International Journal on Electronics & Wireless Communication Engineering, Vol 9, Issue 9, November 2017, ISSN 2454-9924, pp. 1-7.

4. Faculty Achievements (Higher qualification awarded, guest lectures given, awards and Rewards, acted as a judge or resource person etc.):

- i. **Dr.A.Geetha Devi**, Associate Professor and **Mrs.V.Ratna Kumari**, Assistant Professor qualified **Certified Lab-VIEW Associate Developer (CLAD)** exam conducted on 19th July, 2017.

- ii. **Dr. P. Rajesh Kumar**, Professor & HOD., received “**Best NI LABVIEW Academy Award**” from National Instruments on 26th October, 2017.



- iii. **Dr.P.Rajesh Kumar**, Professor & HOD, **Dr.K.Ramanjaneyulu**, Professor, **Dr.C.Subba Rao**, Professor, **Dr.T.Haritha**, Associate Professor, **Dr.Ch.Gangadhar**, Associate Professor, **Dr.A.Geetha Devi**, Associate Professor received **JAI UPADYAYA PURASKAR** from Lions Club International on the occasion of Teachers Day & Engineers Day.

Faculty acted as Judges/Resource Persons:

- i. **Dr. K. Ramanjaneyulu**, Professor attended as a Chief Guest for Inaugural Function of IETE Students Forum and delivered a Guest Lecture on “ **Genetic Algorithm and its Application to Image Water Marking**” on 14th July, 2017 at Narasaraopeta Engineering College, Narasaraopeta.
- ii. **Dr. K. Ramanjaneyulu**, Professor attended as a Guest of Honour for ISF Inaugural Function at Layola Engineering College, Vijayawada on 23rd September, 2017.

5. Industrial Tours:

- i. III ECE Sec-1 visited M/S Efftronics Pvt. Ltd. on 15th July, 2017.

Faculty Accompanied: **Md. Mr. Habibulla**, Sr. Assistant Professor

Mr. B. Samuyelu, Sr. Assistant Professor

Mrs. D. Praveena Bai, Assistant Professor

- ii. **Mr. K. Phani Rama Krishna**, Assistant Professor went to M/S Efftronics to accompany PMKVY students.

iii. III ECE Sec-2 visited M/S Efftronics Pvt. Ltd. on 26th September, 2017.

Faculty Accompanied: **Mr. B.V.Subbayamma**, Assistant Professor

Mr. K.Phani Rama Krishna, Assistant Professor

Mr. A.Ashok Babu, Assistant Professor

iv. III B.Tech. students visited SHAR, Sriharikota on 14th December, 2017.

Faculty Accompanied: **Mr. Md. Habibulla**, Sr. Assistant Professor

Mr. K.Phani Rama Krishna, Assistant Professor

Mr. A.Ashok Babu, Assistant Professor

v. II Year students visited VTPS, Vijayawada on 21st & 22nd December, 2017.

Faculty Accompanied: **Mr. B. Samuyelu**, Sr. Assistant Professor

Mrs. B. Swathi Lakshmi, Assistant Professor

Mr. G. Rambabu, Embedded Engineer

Ms. M. Lahari Ratnanjali, Lab Technician

6. MOUs Signed:

i. MOU with NI Systems (India) Private Limited, Bangalore, India on 29th July, 2017.

7. Students' Achievements:

Literary and Cultural Activities/Academic awards:

i. 19 Students qualified **Certified Lab-VIEW Associate Developer (CLAD)** exam conducted on 19th July, 2017.

S.No.	Name Of the Student
1	Padala Anil Kumar
2	Chowtapalli Anudeep
3	Arigela Avinash
4	Deevi Baby Sai Manasa
5	Dadisetty Bharath
6	Korini Bharathi
7	Garapati Harini
8	Desiboyina Jaya Sree
9	Dugginapalli Mounika
10	Venthrumilli Naga Lakshmi
11	Annabathula Revanth Pavan
12	Yarlagadda Sai Krishna
13	Jetty Sai Sirisha
14	Annamaraju Sasank
15	Duba Sravani
16	Arasavilli Venkata Naga Rupa
17	Sanapala Vinay

- ii. **Ms.G.Lohitha**, III B.Tech., ECE **won I Prize** in Essay writing competition at Gora Science Exhibition Centre held on 26th July, 2017.
- iii. **Mr Siva Naga Sai**, III B.Tech., ECE **won III Prize** in Essay writing competition at Gora Science Exhibition Centre held on 26th July, 2017.
- iv. **Dr.P.Rajesh Kumar**, Professor & HOD mentored project “**Design and Development of a smart cane for visually challenged**” was selected for **1st AICTE – ECI CHAATRA VISWAKARMA AWARDS**. Students are K.Charishma, P. Mangala Gouri, N. Ratna Mythili, D.K.N.P.Sai Keerthana of III B.Tech..



- v. IV. B.Tech students won - Online Project Contest “**DRISHTI**” and received Project Kits from Edge Gate Technologies Pvt. Ltd., Bangalore.
Students are Mr. Yadunandan, Ms. Sailaja Kondepu, Mr. Mahesh Yadav

- vi. On the eve of **Dr. APJ Abdul Kalams Birthday**, under IETE Students Forum, II B.Tech. & I M.Tech. students visited Old Age Home at Kanuru and Arphans School at Poranki and distributed fruits. The following staff accompanied with them.

Dr. T. Haritha, Associate Professor

Mr. M. Srinivasa Rao, Associate Professor

Mrs. K. Anitha, Associate Professor

Mr. B. Surya Prasada Rao, Associate Professor

Mrs. B.V. Subbayamma, Assistant Professor

Mrs. T. Maha Lakshmi, Assistant Professor

Mr. G. Rambabu, Embedded Engineer

Mr. P. Koteswara Rao, Lab Technician

b) Presentation/Participation in Seminars/Conferences/Workshops:

- i. II B.Tech. Students participated in “**ATMOS-2K17 (STUDENT TECHNICAL MEET)**” conducted by BITS, Hyderabad on 27th October, 2017 to 29th October, 2017.

Program Co-ordinator: **Mr. MD. Habibulla**, Sr. Assistant Professor

Faculty Accompanied: **Mrs.L.Madhavi Devi**, Assistant Professor, ECE.

- ii. **Ms. Gundabattula Hanitha Devi**, Regd. No: 16501A0436 won **II prize** in Debate competition at PB Siddhartha (LIMES-2K-17) on 15th December 2017.