



NELENA

(News of Electrical Engineers Activities)

A Half Yearly News Letter

Department of Electrical and Electronics 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- 520007

Volume: 7

July-December-2015

FACULTY PUBLICATIONS:

International Journals:

1. Mr. **M. RAVI KUMAR**, "Placement and sizing of Capacitor and Renewable DG for Loss minimization at different load levels using MATLAB/SIMULINK", IOSR journal of EEE Vol. 10, Issue 4 , Version-3 July-August (2015)
<http://iosrjournals.org/iosr-jeee/Papers/Vol10-issue4/Version-3/A010430108.pdf>
2. Mrs. **B.LALITHA**, "Transient Stability Improvement in Transmission System using SVC with PI-Fuzzy Logic Hybrid Control", IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676, p-ISSN: 2320-3331, Volume 10, Issue 4 Ver. III (July – Aug. 2015), PP 114-121
<http://iosrjournals.org/iosr-jeee/Papers/Vol10-issue4/Version-3/S01043114121.pdf>
3. Mrs. **D.RAGALEELA**, "Transmission Power Flow On Tracking And Loss Allocation Using Proportional Sharing", i-manager's journal on Power system Engg. Vol3, No: 3, Aug-Oct (2015).
<http://www.imanagerpublications.com/Archives.aspx?JournalIssueID=697>
4. Mrs. **M.DEVIKA RANI**, "Dynamic reactive power compensation for wind frames", International journal of emerging trends in Elec. & Elec. (IJETEE) ISSN, 2320-9569, Vol-II, Issue – 5, September 2015

Faculty Incharge:

Mrs.D.Ragaleela
Mr. P.Karunakar

Inside:

1. Faculty Publications

(i) International Journals

(ii) International Conferences

2. Programmes Organised

3. Programmes attended by staff (seminars / guest lectures / workshops)

4. Faculty Interaction with outside World

5. Research projects applied

6. Student Participation

7. Student Achievements

8. Industrial visit

Quotation

The best preparation for tomorrow is doing your best today.

H. Jackson Brown, Jr.

<http://www.ijetee.org/Docs/Volume%2011/Issue%205/19.pdf>

5. Mr. **B.BADDU NAIK**, “Congestion Management In Power Transmission Network Using TCSC”, International journal of emerging trends in Elec. & Elec. (IJETEE) ISSN: 2320-9569, Vol-11, Issue-5, September 2015
<http://www.ijetee.org/Docs/Volume%2011/Issue%205/16.pdf>
6. Mr. **P.KARUNAKAR**, “Echo Noise Reduction Using Dynamic Selection of Sub Band Adaptive Filters”, International journal of Research in Computer& Communication Technology (IJRCCT), Vol-4, Issue No.9, Page No.714-718, September 2015
<http://www.ijrcct.org/index.php/ojs/article/view/1205/pdf>
7. Mrs. **K. BHVANA**, “Comparative Study of Solution of Economic Load Dispatch – Using Evolutionary Algorithms”, International journal of emerging trends in Elec. & Elec. (IJETEE) ISSN, 2320-9569, Vol-II, Issue – 5, September 2015
<http://www.ijetee.org/Docs/Volume%2011/Issue%205/4.pdf>
8. Mrs. **G.MADHAVI**, “Mitigation Of Voltage Sag/Swell With Fuzzy Control Reduced Rating DVR”, International Journal of Engineering Research and Development e-ISSN: 2278-067X, p-ISSN: 2278-800X, www.ijerd.com Volume 11, Issue 09 (September 2015), PP:41-52
http://www.ijerd.com/paper/vol11-issue9/Version_1/G1194152.pdf
9. Mr. **M.HEMANTHSAI**, “Active Exchange In Distributed Power Flow Controller (DPFC) At Third Harmonic Frequency”, International Journal of Engineering Research and Development, e-ISSN: 2278-067X, p-ISSN: 2278-800X, Volume 11, Issue 09 (September 2015), PP.53-61
http://www.ijerd.com/paper/vol11-issue9/Version_1/H1195361.pdf
10. Dr. **M.V.RAMESH**, “Diagnosis methods of stator short circuit faults of BLDC motor using adaptive”, International journal on neuro fuzzy inference (ANFIS) system and wavelet IOSR journal EEE Vol-10 issue-5, version Sep.-Oct. (2015)
<http://www.iosrjournals.org/iosr-jeee/Papers/Vol10-issue5/Version-1/D010512129.pdf>
11. Mr. **C. KUMAR**, “Enhancement of power system security using optimization technique” IJETEE-ISSN, 2320-9569, Vol-II, Issue – 6, October 2015
<http://ijetee.org/Docs/Volume%2011/Issue%206/1.pdf>
12. Mr. **N. VIJAYA ANAND** & Dr. **CH.PADMANABHA RAJU**, “Unit Commitment Using Soft Computing Techniques”, International Journal of Elc. Engg , ISSN 0974-2158, Vol-8, No. 3 (2015), pp:289-299
http://www.irphouse.com/ijee/ijeev8n3_09.pdf

13. Mr. **Y. VISHNUMURTHULU**, “Improvement Of Power Quality In A Grid Connected Induction Generator Based Wind Farm Using Static Compensator”, International journal of Advanced technology and innovative research, Vol-7, Issue:16, November 2015
<http://www.ijatir.org/issue.php?issue=ISSUE%2016&volume=Volume7&page=3>
14. Dr. **A. PURNACHANDRA RAO**, “Implementation Of FLC In Power Control For Hybrid AC/DC Micro Grid”, International Journal of Engineering Research and Development, e-ISSN: 2278-067X, p-ISSN: 2278-800X, Volume 11, Issue 11 (November 2015), PP.76-93
http://www.ijerd.com/paper/vol11-issue11/Version_2/J11117693.pdf
15. Dr. **CH.PADMANABHA RAJU**, “Co-Ordinated Control Of FACTS Devices Using Optimal Power Flow Technique”, International Journal of Engineering Research and Development, Volume 11, Issue 12 (December 2015), Pages: 1-12
http://www.ijerd.com/paper/vol11-issue12/Version_1/A11120112.pdf

international Conferences:

1. Dr. **M.VENUGOPALA RAO**, “Hybrid modulation technique for neutral point clamped inverter to eliminate neutral point shift with minimum switching loss” , International Conference of IEEE TENCON 2015, MACAU, 1st - 4th November 2015, ISBN: 978-1-4799-8641-5
<http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=7373101&url=http%3A%2F%2Fieeexplore.ieee.org%2Fstamp%2Fstamp.jsp%3Ftp%3D%26arnumber%3D7373101>
2. Dr. **M.VENUGOPALA RAO**, “Performance Analysis of Artificial Neural Network and Neuro-Fuzzy Controlled Shunt Hybrid Active Power filter for Power Conditioning”. International conference on soft computing systems, volume 397 of the series Advances in intelligent Systems and computing in springer, DOI10.1007/978-81-322-2671-0_28PP: 287-302, Print ISBN:978-81-322-2669-7, December 2015
http://link.springer.com/chapter/10.1007%2F978-81-322-2671-0_28

PROGRAMS ORGANISED:

1. Organized Technical events like **Poster presentation, Model Presentation, Technical Jam & Technical Quiz** in association with ISTE students chapter on the eve of Michael Faraday's Birthday for II,III & IV B.Tech students on 22nd September 2015.
2. Conducted an Interactive session for IV year students on **“Employability skills, opportunities and career planning”** with Ms. **Ch. Divya**, Alumni on 24th September 2015
3. Organised an Interactive session on **“Tips for Placement”** to the pre final year B.Tech students by final Year B.Tech Students (who got placement in 2015-16) on 17th December 2015 .
4. Arranged faculty colloquia on **“Use of PSCAD Software tool in Electrical Applications”** with Mr. **K VIJAYAKRISHNA**, Assistant Professor for our faculty members on 19th December 2015.
5. Organised an Interactive session for III B.Tech students on **“Career Planning”** with Alumni - Ms. **K Raja Sri**, Postal Assistant, Department of Posts, Medak&Mr.**P Bhaskarachari**, Technology trainer, Academy of Robotics, R & D Section, Vijayawadaon 26th December 2015



6. Arranged a Guest Lecture for III and IV B.Tech Students on **“Power Scenario in India and Spectrum of Switchgear”** by Sri. **Ch.Sri Prakash**, Superintending Engineer, Dr.NTTPS Training Institute on 30th December 2015 .



PROGRAMMES ATTENDED BY STAFF (SEMINARS / GUEST LECTURES / WORKSHOPS):

1. Mr. **C.KUMAR**, Mrs. **D.RAGALEELA**, Mr. **B.BADDU NAIK**, Mrs. **G.MADHAVI**, Mr. **M.SESHU**, Mr. **B. MOHAN** & Mr. **M. RAVI KUMAR** attended three day short term course on “Recent trends and applications in smart and micro grids” during 10th – 12th July 2015 at KL University, Vaddeswaram
2. Dr. **A.PURNACHANDRA RAO**, Mrs. **M. DEVIKA RANI** & Mrs. **V.SAI GEETHA LAKSHMI** attended IEEE workshop on “Innovations in variable speed drives and Industrial Applications” organized by Usha Rama College of Engg., & Technology, Telaprolu on 17th July 2015
3. Dr. **M.V.RAMESH**, Mr. **C.KUMAR**, Dr. **A.PURNACHANDRA RAO**, Mrs. **B.LALITHA**, Mr. **Y. VISHNUMURTHULU**, Mrs. **K. BHAVANA**, Mr. **M.SESHU**, and Mr. **B.BALAJI** attended 3 day training program on “Hands of evolutionary algorithms using MAT lab” organized by MCA Dept., PVPSIT during 10th-12th September 2015
4. Mr. **T.SRINIVASA RAO**, Mr. **P.KARUNAKAR**, Mr. **K.VIJAYAKRISHNA**, Mr. **P.SESHU KUMAR**, Mr. **B.BALA SAI BABU** & Mr. **M.MALLIKARJUNA REDDY** attended AICTE short term course on “Industrial Automation through ACT” by NITTR, Chandigarh through Remote centre, PVPSIT during 5th – 9th October 2015
5. Mr. **B.MOHAN** & Mrs. **V.SAI GEETHA LAKSHMI** attended Two day National workshop on “Intelligent control system design using MATLAB” organized by Dept., EIE, VR Siddhartha Engg., College under TEQUIP during 9th-10th October 2015

6. Dr. **M.VENUGOPALA RAO**, Mr. **C.KUMAR**, Dr. **M.V.RAMESH**, Dr. **A.PURNACHANDRA RAO**, Mr. **N.VIJAYA ANAND**, Mrs. **J.HEMALATHA**, Mr. **P.KARUNAKAR**, Mr. **B.BADDU NAIK**, Mrs. **R SWATHI**, Mrs. **K.BHAVANA**, Mrs. **G.MADHAVI**, Mr. **B.BALA SAI BABU**, Mr. **M.HEMANTH SAI**, Mr. **M.MALLIKURJUNA REDDY**, Mr. **K.VIJAYAKRISHNA**, Mr. **M.RAVIKUMAR**, Mrs. **M.DEVIKA RANI** and Mrs. **V.HARIKA** attended a guest Lecture on “**Patents-Invension based Research in institution and Invention & its protection**” at PVPSIT on 5th December 2015.
7. Mr. **B.BADDU NAIK** attended a two day National Workshop on “**Multi level Inverters & Micro grids**” at JNTUK, Kakinada on 30th-31st December 2015

FACULTY INTERACTION WITH OUTSIDE WORLD:

1. Dr. **M.VENU GOPALA RAO** attended as judge for student’s project exhibition- Techno Aavishkaara 2015 conducted by Vignan’s UniversityVadlamudion 10th October 2015.
2. Dr. **M VENU GOPALA RAO** attended as a Chief guest for a Two day Faculty Development Programmed on “**Applications of MATLAB In Engineering**” organized by Andhra Loyola Institute of Engineering and Technology, Vijayawada on 11th December, 2015
3. Dr. **M.VENU GOPALA RAO** attended as an Expert to evaluate the Course files of EEE Department, Vignan’s University, Vadlamudi on 12th December, 2015.
4. Under the guidance of Dr. **M. VENU GOPALA RAO** and Mr. **K VIJAYA KRISHNA**, the IV B.Tech students conducted awareness programs on Energy Saving in the following schools on the eve of “**Energy conservation Week**”

S.No.	School Name	Place	Date	Students participated in the program
1	ZP High School	Poranki	18 th December 2015	Ms. CH.SAI SINDHUSHA , Mr. CH. BHARATH KUMARAKILESH , Ms. M. JAHNAVI , Mr. K.PRAVEEN , Mr. K.HARISH ,

2	Vikas Model High School	Ganguru (Penamaluru)	21 st December 2015	Mr. K.LAKSHMANA RAO , Mr. N V M K PARDHA SARADHI Mr. P.HEMANTH KUMAR , Mr. N. SAI KUMAR
3	ZP High School	Edupugallu	21 st December 2015	Mr. K.LAKSHMANA RAO , Mr. K.PRAVEEN , Mr. V. JAYANTH BABU
4	Noble English Medium School	Ganguru	21 st December 2015	Mr. V.V.S.ARUN KUMAR , Mr. M.V.N. LOHITH Ms. M. RAMYA SANGEETHA Ms. P. MANJU BHARATHI



5. Dr. **M VENU GOPALA RAO** reviewed Three Manuscripts for the following Journals. One from Springer and Two from i-manger's Journal on Power System Engineering (JPS)

RESEARCH PROJECTS APPLIED TO UGC:

S. No	Principal Investigator	Name of the Minor Research Project	Amount in Rs.	Duration
1	Dr. CH. Padmanabha Raju Professor	Development of New Soft Computing Techniques for Power System Optimization and Security Assessment in Restructured Power Systems Scenario	2,20,000	2 years
2	Mr. C. Kumar Assoc.Professor	Enhancement of Power System Security by Hybrid Optimization Technique in Interconnected Power Systems	1,00,000	2 years

3	Mr. N. VijayaAnand Assoc.Professor	Development of Model Order Reduction Techniquesfor Interval systems using new Soft computingTechniques	3,90,000	2 years
4	Mrs. J. Hemalatha Sr.Asst.Professor	Solar based multilevel inverter for water pumping applications	4,80,000	2 years
5	Mrs. D. Ragaleela Sr.Asst.Professor	Modelling and analysis of voltage stability constrained optimal power flow in a power system using varioustechniques	4,10,000	2 years
6	Mr.B. BadduNaik Asst.Professor	Congestion management in deregulated power system using heuristic techniques	1,00,000	2 years
7	Mr. M. Ravi Kumar Asst.Professor	Coordinated and Integrated Control of Solar PV Generators in Grid connected and Islanded Modewith MPPT and Energy Storage Systems.	4,95,000	2 years

STUDENT PARTICIPATION:

- The following IV B.Tech students participated IEEE workshop on “Innovations in variable speed drives and Industrial applications” organized by Usha Rama Engg., College on 17th July 2015.
 - Mr. VVS ARUN KUMAR
 - Mr. V. AKHIL
 - Mr. V. ASHISH
 - Mr. V. VAMSI MANOJ
 - Mr. PATHAN NAGOOR KHAN
 - Mr. K. VENKATESH
- Ms. A.BHAVYA TEJA, Ms. K.ROJA RANI, Ms. T.ANJALI of I M.Tech and Mr. CH.HEMANTH BABU, Ms. G.S.N.AKHILA BINDU, Ms. K.KRISHNA MADHURI, Ms. CH.HARI SAI PRIYA, Ms. K.VIMALA and Ms. CH.SWETHANANDINI of III B.Tech participated in a three day workshop on “CRAFT ARENA-II” conducted by women’s cell, PVPSIT on 15th December 2015.
- Mr. K.SAI MAHESH, Mr. K.SIVA, Mr. K.KOWSHIK REDDY, Mr. G.VENKATA DURGA PRASAD of IV B.Tech participated in two day Tech fest workshop on

“Brain wave controlled robotics” & “Sixth sense robotics” conducted by IIT Bombay from 24th-30th December 2015.

4. Mr. **P.ABHISHEK JAIN**, Mr.**A.RAHUL NAIR** of III B.Tech participated in “Sixth sense robotics” & Mr. **VINAY KUMAR REDDY** of III B.Tech participated in “Embedded Technologies” for two day Tech fest workshop conducted by IIT Bombay from 26th-28th December 2015.

STUDENT ACHIEVMENTS:

- Ms. **PULIVARTHISOWMYA** (11501A0285) and Mr. **BALAJIDHARAVATH** (11501A0208) of 2015 passed out students were selected for Prathiba Awards – 2015 by JNTUK, Kakinada.
- The following III B.Tech students won prizes in CRAFT ARENA-II on 15th December, 2015.

S.No	Name of the Student	Year	Event Name	Venue / Organized	Date	Prizes won
1	Ms. G.S.N.AKHILABINDU (13501A0235)	III EEE	CRAFT ARENA-II (Nada painting)	women's cell, PVPSIT	15 th December 2015	1 st prize
2	Mr. CH. HEMANTHBABU (13501A0221)		CRAFT ARENA-II (Jute painting)	women's cell, PVPSIT	15 th December 2015	2 nd prize

PLACEMENTS:

S.No	Student Name	Roll No.	Company
1	ABHILASH KARRA	12501A0202	TCS
2	AINUMPUDI SANTOSH KUMAR	12501A0203	
3	A AJAY KUMAR	12501A0208	
4	BHAGAVATULA SAI SARAN PREM KALYAN	12501A0212	
5	DUDALA JAGADEESWARA V C RAO	12501A0233	
6	GADAMSETTI ADITYA ANOOP	12501A0235	
7	GANTA DURGA PRASAD	12501A0236	
8	KAJA HARISH	12501A0244	
9	LAKSHMANA RAO KUPIREDDI	12501A0257	
10	LANKA VENKATA SAI ABHINAV	12501A0258	
11	MADDIPATLA JAHNAVI	12501A0260	
12	MARUPUDI MANISH	12501A0267	

13	MOHAMMAD MOINUDDIN ALI	12501A0270		
14	MORUMURI VENKATA NAGA LOHITH	12501A0272		
15	PALLAPOTHU CHETANA	12501A0283		
16	ROMPICHERLA KUMUDAVALLI	12501A0291		
17	TADEPALLI VENKATA NAGA SAILAKSHMI MOUNICA	12501A02A3		
18	TIRUPATHI JAYA KRISHNA SAI	12501A02A7		
19	VALAPANABOINA SAIPOOJA	12501A02A9		
20	VALLURUPALLI JAYANTH BABU	12501A02B1		
21	VANKAYALA VENKATA SAI ARUN KUMAR	12501A02B5		
22	VASAM AKHIL	12501A02B6		
23	BANKURU RAVI TEJA	12501A0210		Global Edge
24	CHANDU SAI SINDHUSHA	12501A0217		
25	CHUKKABOTLA ABHIRAM	12501A0224		
26	KONDA MANOJ	12501A0253		
27	MARINGANTI RAMYA SANGEETHA	12501A0266		
28	VEERUBHOTLA VAMSI MANOJ	12501A02B8		
29	ANUSHA MARUPEDDI	12501A0207		Tech Mahindra
30	CHANDU SAI SINDHUSHA	12501A0217		
31	CHUKKABOTLA ABHIRAM	12501A0224		
32	MAGANTI SRIHARSHA	12501A0262		
33	MARINGANTI RAMYA SANGEETHA	12501A0266		
34	PENUBOTHU MANJU BHARATHI	12501A0286		
35	THUMMALAPALLI HARISH	12501A02A6		
36	A.VENKATESH	11501A0204	TCS	
37	K.DURGA PHANINDRA	11501A0243		
38	K.S.N.V.RAMESH	11501A0247		
39	K.KRISHNA SUMANTH	11501A0251		
40	N.SATYA SAI CHANDU	11501A0275		
41	A.VENKATESH	11501A0204		

INDUSTRIAL VISITS:

1. III B.Tech students visited Karnataka Power transmission corporation Ltd., Bangalore, M/s Deepanjan Power Cables mysore, Visweswaraya Industrial & Technical Museum Bangalore during 28th September – 3rd October 2015 accompanied with four staff members Mr. **M.SESHU**, Mr. **B.BALAJI**, Mrs. **V.SAI GEETHA LAKSHMI** and Mr. **V. SIVA KIRAN KUMAR**.