



# 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

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## Faculty Incharge:

Mrs. D.Ragaleela  
Mr. B.Mohan

## Inside:

1. Faculty Achievements
2. Faculty Publications
  - (i) International Journals
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3. Programmes Organised
4. Programmes attended by staff (seminars / guest lectures / workshops)
5. Faculty Interaction with outside World
6. Research Projects Applied
7. Student Participation
8. Student Achievements
8. Industrial visit

## Quotation:

If you would create something,  
you must be something.

**Johann Wolfgang von Goethe**

## FACULTY PUBLICATIONS:

### International Journals:

1. Dr. **CH.PADMANABHARAJU** & Mr. **C.KUMAR**, "Contingency Constrained Optimal Power Flow by Hybrid Optimization Technique Using FACTS Device", IOSR Journal Of Electrical And Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 9, Issue 6 Ver. II (Nov – Dec. 2014), PP 91-98, Impact factor: 1.452  
<http://iosrjournals.org/iosr-jeee/Papers/Vol9-issue6/Version-2/I09629198.pdf>.
2. Mr. **M.V.RAMESH**, "Over current and over voltage protection of permanent magnet brushless DC motor using wavelet analysis", IOSR Journal Of Electrical & Electronics Engineering, Vol-9, Issue:5,ver:5 (sep-oct 2014) pp:79-86,e-ISSN:2278-1676,p-ISSN:2320-3331  
[www.iosrjournals.org/iosr-jeee/Papers/Vol9-issue5/Version-3/N09537986.pdf](http://www.iosrjournals.org/iosr-jeee/Papers/Vol9-issue5/Version-3/N09537986.pdf).
3. Mr. **N.VIJAYANAND**, "Order reduction of MIMO systems using Firefly algorithm" International journal of Electrical engineering, ISSN:0974-2158, Vol:7, No:3, Page: 425-438 (Dec 2014)  
[www.irphouse.com/ijee/ijeev7n3\\_06.pdf](http://www.irphouse.com/ijee/ijeev7n3_06.pdf).
4. Mrs. **D.RAGALEELA**, "Comparative of Conventional and Intelligence Controller based Hybrid Generation Scheme Fed Active Filter

Compensation Scheme for Power Quality Features”, International Journal of Engineering Research and Development e-ISSN: 2278-067X, p-ISSN: 2278-800X, www.ijerd.com Volume 10, Issue 11 (November 2014), PP.59-71.

[http://www.academia.edu/10173027/Comparative\\_of\\_Conventional\\_and\\_Intelligence\\_Controller\\_based\\_Hybrid\\_Generation\\_Scheme\\_Fed\\_Active\\_Filter\\_Compensation\\_Scheme\\_for\\_Power\\_Quality\\_Features](http://www.academia.edu/10173027/Comparative_of_Conventional_and_Intelligence_Controller_based_Hybrid_Generation_Scheme_Fed_Active_Filter_Compensation_Scheme_for_Power_Quality_Features)

5. Mr. **Y.VISHNUMURTHULU**, “2-level and 3-level inverter topologies for micro grid connected scheme using MPPT based PV energy system”, IOSR Journal of Computer Engineering, e-ISSN: 2278-1676, p-ISSN:2320-3331, Volume:9, issue 6 Ver-III (Nov-Dec 2014) pp:48-55  
[www.iosrjournals.org/iosr-jeee/Papers/vol9-issue6/Version-3/H09634855.pdf](http://www.iosrjournals.org/iosr-jeee/Papers/vol9-issue6/Version-3/H09634855.pdf)
6. Mrs. **K. BHAVANA** , “Voltage Control of three phase AC/DC PWM converters using feedback Linearization”, IOSR Journal of Computer Engineering, e-ISSN: 2278-0661, p-ISSN:2278-87-27, Volume:6, Ver-V (Nov-Dec 2014) pp:69-77  
[www.Iosrjournals.org/iosr-jce/vol16-issue6/version-5/0016656977.pdf](http://www.Iosrjournals.org/iosr-jce/vol16-issue6/version-5/0016656977.pdf).
7. Mrs. **B.LALITHA** , “Comparison of Control Algorithms for Shunt Active Filter for Harmonic Mitigation”, International Journal of Engineering & Computer Science, Vol.3, Issue10 (October-2014) e-ISSN:2319-7242  
<http://www.ijecs.in/index.php/93-v3-i10/546-title-comparison-of-control-algorithms-for-shunt-active-filter-for-harmonic-mitigation#.VQezSo6Ueos>.
8. Mr. **M.HEMANTH SAI**, “Power loss allocation in deregulated electricity markets”, International journal of engg. research and development, ISSN:2278-800X, Vol:10, Issue:12,Page:37-45(Dec2014).  
[www.ijerd.com/paper/vol10-issue12/Version\\_1/F10123745.pdf](http://www.ijerd.com/paper/vol10-issue12/Version_1/F10123745.pdf).
9. Mr. **M.SESHU**, “A Novel High Performance Dual Control Strategy for Islanding Operations with PV Generation using Fuzzy”, International journal of Advanced technology and innovative research, ISSN 2348–2370 Vol.06,Issue.12, December-2014, Pages:1525-1528  
<http://www.ijatir.org/issue.php?issue=ISSUE%2012&volume=Volume6&page=3>.
10. Ms. **K.DIVYASREE**, “Distributed Generation in Power System Network to Alleviate Voltage Sag” , IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 9, Issue 6 Ver. II (Nov–Dec. 2014), PP 83-90  
<http://www.iosrjournals.org/iosr-jeee/Papers/Vol9-issue6/Version-2/H09628390.pdf>.

11. Mrs. **V. SAI GEETHA LAKSHMI** ,“Design of PSO based Fractional order Load Frequency controller for two area power system” ,IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676, p-ISSN: 2320-3331, Volume9, Issue6 Ver.II (Nov–Dec.2014), PP67-74  
[www.iosrjournals.orghttp://iosrjournals.org/iosr-jeee/Papers/Vol9-issue6/Version-2/F09626774.pdf](http://iosrjournals.org/iosr-jeee/Papers/Vol9-issue6/Version-2/F09626774.pdf).
12. Mr. **M.RAVI KUMAR**, “The Sizing & Placement of Capacitor in a Radial Distribution System Using Loss Sensitivity Factor and Simulink”, IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676, p-ISSN: 2320 -3331, Volume 9, Issue 6 Ver. II (Nov – Dec. 2014), PP 75-82  
<http://iosrjournals.org/iosr-jeee/Papers/Vol9-issue6/Version-2/G09627582.pdf>.
13. Mrs. **G.MADHAVI** , “A Novel High Step-Up DC –DC Converter for Hybrid Renewable Energy System applied to Irrigation”, International Journal of Engineering Research and Development e-ISSN: 2278-067X, p-ISSN: 2278-800X, Volume-10, Issue-12 (December 2014), PP.25-36  
[http://www.academia.edu/10173082/A\\_Novel\\_High\\_Step-up\\_DC\\_DC\\_Converter\\_for\\_Hybrid\\_Renewable\\_Energy\\_System\\_applied\\_to\\_Irrigation](http://www.academia.edu/10173082/A_Novel_High_Step-up_DC_DC_Converter_for_Hybrid_Renewable_Energy_System_applied_to_Irrigation)

#### **PROGRAMMES ORGANIZED:**

1. Arranged an interactive session with Mr. **MAGANTI SIDDHARTHA** (All India Gate 179<sup>th</sup> Rank in 2011 and 13<sup>th</sup> rank holder in 2014) Alumni of PVPSIT got selected in power grid as executive trainee at Delhi) for IV year students on 11<sup>th</sup> July 2014.
2. Arranged one guest lecture on “**personality development**” and “Smart grid” by **Dr. G.KESAVARAO**, professor KL University on 25<sup>th</sup> Sep 2014.
3. Arranged an interactive session on “**solar power and its importance**” with Mr. **D. PANDARI VARMA** (2013 passed out) for II B.Tech students on 10<sup>th</sup> November 2014.
4. Arranged an interactive session with Mr. **HARI KRISHNA** (All India GATE First Rank holder- alumni of VRSEC) to IV B.Tech students on 5<sup>th</sup> Dec. 2014
5. Organized “**Energy conservation week & Day celebrations**” jointly organized by NREDCAP and BEE in association with PVPSIT and SAGTE on 19<sup>th</sup> Dec 2014.

In this connection the following events namely **Elocution, Essay writing and Model presentation** covering renewable energy sources have been conducted. About

400 students have registered out of which 260 students participated from various engineering colleges and degree colleges in Krishna district. The exhibition also being arranged which was opened to public. About 2000 outsiders from various villages in and around Vijayawada visited the exhibition and appreciated the arrangements.



In this connection the EEE Dept., Designed and fabricated a Solar Electrified Cart worth of Rs.30, 000/- sanctioned by SAGTE for motivating towards R&D activities.





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

1. Mrs. **J. HEMALATHA** & Mrs. **K. BHAVANA** attended 6-day workshop on “**PCB designing**” at Effetronics, Vijayawada from 30<sup>th</sup> June – 5<sup>th</sup> July 2014.
2. Mr. **T. SRINIVASARAO** & Mr. **M. MALLIKARJUN REDDY** participated in house training programme on “National Instruments labview and Robotics” organized by ECE department, PVPSIT on 3<sup>rd</sup> & 4<sup>th</sup> July 2014.
3. The following faculty members have participated one day training programme on “Effective Teaching Methodologies” on 26<sup>th</sup> July 2014 organized by ISTE chapter, PVPSIT  
Mr. **A. PURNACHANDRARAO**, Mr. **M. SESHU**, Mrs. **M. DEVIKA RANI**  
Mrs. **D. RAGALEELA**, Mrs. **J. HEMALATHA**, Mr. **M. MALLIKARJUNA REDDY**, Mr. **Y. VISHNUMURTHULU**, Mr. **B. MOHAN**, Mrs. **A. VIJAYA SRI**, Ms. **G. MADHAVI**, Mr. **P. SESHU KUMAR** & Ms. **S. USHA RANI**
4. Mr. **MV RAMESH** & Mr. **A. PURNACHANDRARAO** attended faculty orientation program on “**utilization of e-resources through Coe-ERD portal of JNTUK**” conducted by Globerena Tech Pvt., Ltd., at LBRCE, Mylavaram on 28<sup>th</sup> Aug 2014.
5. Mr. **M.V. RAMESH** has participated in a two day national seminar on “**Innovations in Higher education**” organized by the Internal quality assurance cell held on 7<sup>th</sup>-8<sup>th</sup> Nov 2014 at P.B. Siddhartha Arts & Science College, Vijayawada.
6. The following faculty members participated in 3 day training programme on “**Power system simulation studying using Mipower software**” at PVPSIT from 10<sup>th</sup> – 12<sup>th</sup> Nov 2014  
Mrs. **M. DEVIKA RANI**, Ms. **K. DIVYA SRI**, Mrs. **J. HEMALATHA**,  
Ms. **G. MADHAVI**, Mrs. **D. RAGALEELA**, Mrs. **CH. TRINAINI**, Mr. **C. KUMAR**,  
Mrs. **B. LALITHA**, Mrs. **B. BALASAIBABU**, Mr. **M. RAVI KUMAR** & Mr. **N. VIJAYAANAND**
7. Sri. **N.VIJAYAANAND** has participated one week faculty development programme on “**Research tools in Elec., Engg**” during 20<sup>th</sup>-25<sup>th</sup> Nov 2014 at LBRCE, Mylavaram.
8. Mr. **Y.VISHNUMURTHULU** attended a three day workshop on “recent trends in Power system protection” at NIT Warangal from 27<sup>th</sup> to 29<sup>th</sup> November 2014.

## RESEARCH PROJECTS APPLIED:

### Projects Sanctioned:

Dr. **M.V. RAMESH** (Co-ordinator), Assoc.Professor

Name of the Project	Sanctioning Authority	Duration	Amounts sanctioned Rs. In lakhs
Solar based permanent magnet brushless driven electric vehicle	Minor research project by UGC	2 years	4,30,000

## FACULTY INTERACTION WITH OUTSIDE WORLD:

1. Dr. **S.V.M. BHUVANAİKARAO** delivered a guest lecture on “Solar photovoltaic energy” addressing the Asst. engineers association and Engineers association at Dr.NTTPS, Vijayawada, and Ibrahimpatnam on the occasion of Engineer’s day on 15<sup>th</sup> Sep 2014.
2. Dr. **S.V.M. BHUVANAİKARAO** attended the conference to chair the technical session at KL University on 20<sup>th</sup> Sep 2014.
3. Dr. **CH.PADMANABHA RAJU** acted as a judge for National Level Technical Fest contest EPISTEMICON-2K14 on 27<sup>th</sup> Sep 2014 at Andhra Loyola Institute of Technology, Vijayawada.
4. Dr. **S.V.M. BHUVANAİKARAO** delivered a guest lecture on “ Solar energy” at AG&SG Siddhartha Degree college of Arts and Science, Vuyyuru on 29<sup>th</sup> Nov 2014

## STUDENT PARTICIPATION:

1. Mr. **K. ABHILASH** of III B.Tech participated NCC camp at Hyderabad on the occasion of Independence Day 2014 on 7<sup>th</sup> Aug – 15<sup>th</sup> Aug 2014
2. Ms. **M. ANUSHA NAIDU** ,Ms. **CH. SAISINDHUSHA** ,Ms. **TVSNL MOUNICA** , Ms. **R.KUMUDAVALLI**, Ms. **K.NAVYA SRI** of III B.Tech participated in Group Dance on the occasion of Rotary youth festival Rotary Club, Vijayawada on 20<sup>th</sup> Sep 2014.
3. Ms. **M. RAMYASANGEETHA** participated in Painting competition at State Youth Festival Director of Youth services, Govt. of AP. Vizag 30<sup>th</sup> Dec 2014.

### **STUDENT ACHIEVEMENTS:**

1. Ms. **M. RAMYA SANGEETHA** won 1<sup>st</sup> prize in Group discussion conducted by District youth festival rotary Club Vijayawada on 20<sup>th</sup> sep. 2014.
2. Ms. **M. ANUSHANAIDU**, Ms. **CH. SAISINDHUSHA**, Ms. **TVSNL MOUNICA**, Ms.**R.KUMUDAVALLI**, Ms. **K.NAVYA SRI** won 1<sup>st</sup> prize in Group Dance competition conducted by District youth festival rotary Club Vijayawada on 20<sup>th</sup> sep. 2014.
3. Ms. **R. KUMUDAVALLI** won a 2<sup>nd</sup> prize in Essay writing conducted by District youth festival rotary Club Vijayawada on 20<sup>th</sup> sep. 2014.

### **INDUSTRIAL VISIT:**

- II B.Tech (2013 batch) visited a Hydro Power Plants Srisailem & Nagarjuna Sagar on 19<sup>th</sup>-20<sup>th</sup> Sep. 2014
- IV B.Tech (2011 batch) visited a (12 members) Undergone industrial training at Vizag Steel Plant, Visakhapatnam from 17<sup>th</sup> Sep. to 1<sup>st</sup> Oct. 2014
- IV B.Tech (2011 batch) visited a Hydro Power Plants Srisailem & Nagarjuna Sagar on 9<sup>th</sup> -10<sup>th</sup> Oct. 2014