



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- 520 007

Volume: 4

January-June-2014

Faculty Incharge:

Mrs. D.Ragaleela
Mr. B.Mohan

Inside:

1. Faculty Publications

- (i) International Journals
- (ii) International Conferences

2. Programmes organised

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

4. Research projects applied

5. Faculty Interaction with outside World

6. Student Participation

7. Student Achievements

8. Industrial visits

Quotation:

To find what you seek
in the road of life,
the best proverb of all
is that which says:

"Leave no stone
unturned."

Edward Bulwer

FACULTY PUBLICATIONS

International Journals:

1. Dr. **CH.PADMANABHARAJU** & Mr. **C.KUMAR**,
"Enhancement of Power System Security by Particle
Swarm Optimization Based Optimal Power Flow",
International Journal of Scientific & Engineering
Research (ISSN: 2229-5518), Volume.5, Issue.1,
January 2014, pp.545-551, Impact factor: 1.4 (Cite
Factor),0.4510(JIF),ICV:5.27
[http://www.ijser.org/onlineResearchPaperViewer.aspx
?Enhancement-of-Power-System-Security-by-Particle-
Swarm.pdf](http://www.ijser.org/onlineResearchPaperViewer.aspx?Enhancement-of-Power-System-Security-by-Particle-Swarm.pdf)
2. Mr. **B.MOHAN**, "Optimal Allocation of FACTS
Device with Multiple Objectives Using Genetic
Algorithm", International Open Access Journal Of
Modern Engineering Research (IJMER) ISSN: 2249-
6645 , www.ijmer.com, Vol. 4 , Iss.2, Feb. 2014 , 162
[http://www.ijmer.com/papers/Vol4_Issue2/Version-
1/T04201162168.pdf](http://www.ijmer.com/papers/Vol4_Issue2/Version-1/T04201162168.pdf).
3. Dr. **CH. PADMANABHA RAJU**, "A Study of series
FACTS devices for the control of power flow in
electrical power networks", International Journal Of
Innovation And Applied Studies, Vol. 5 No. 3 Mar.
2014, pp. 269-279 ,ISSN 2028-9324

<http://www.issr-journals.org/ijias/>

4. Dr. **CH. PADMANABHA RAJU** & Mr. **N.VIJAYAANAND**, “Hybrid practical swarm optimization technique for optimal power flow” ,International Journal Of Scientific & Engineering Research (IJSER) Vol. 5, Issue. 3, March 14, Pg 75-82 ISSN 2229-5518
<http://www.ijser.org/researchpaper%5CHybrid-Particle-Swarm-Optimization-Technique-For-Optimal-Power-Flow.pdf>.
5. Dr.**CH.PADMANABHA RAJU**, & Mrs. **D.RAGALEELA**, “Line Loadability Improvement by using TCSC under Network Contingencies” ,International Journal Of Scientific & Engineering research(ISSN:2229-5518), Volume5, Issue.3, March2014, pp.93-97, Impactfactor:1.4, (JIF),ICV:5.27
<http://www.ijser.org/onlineResearchPaperViewer.aspx?Line-Loadability-Improvement-by-Using-TCSC-under-Network-Contingencies.pdf>.
6. Ms. **G.MADHAVI**, “Optimal Location and Parameter Settings of TCSC under Single Line Contingency using PSO Technique”, International Journal Of Scientific & Engineering Research, Volume 5, Issue 3, pages 153-157, March-2014 ISSN 2229 - 5518
<http://www.ijser.org/onlineResearchPaperViewer.aspx?OPTIMAL-LOCATION-AND-PARAMETER-SETTINGS-OF-TCSC.pdf>.
7. Mr. **A.PURNA CHANDRA RAO**, “Mitigation of Sub Synchronous Resonance in DFIG Based Wind generation Using Fuzzy Logic Controller”, International Journal Of Engineering Research & Technology (IJERT) IJERTIJERT ISSN: 2278-0181, Vol. 3 Issue 4, April 2014 .
<http://www.ijert.org/browse/volume-3-2014/april-2014-edition?start=90>.
8. Mr. **K.VIJAYAKRISHNA**, “Robust Controller For Aircraft Yaw”, International Journal Of Electrical And Electronics Engineering Research (IJEEER), ISSN (P): 2250-155X; ISSN (E): 2278-943X Vol. 4, Issue 2, Apr 2014, 65-70 © TJPRC Pvt. Ltd., Impact Factor (JCC): 5.9638 Index Copernicus Value (ICV):3.0.pp:65 -70.
http://www.academia.edu/7279138/ROBUST_CONTROLLER_FOR_AIRCRAFT_YAW.
9. Ms. **K.DIVYASREE**, “A Coordinated Optimization Of Dg Capacity, Location With Optimal Use Of Distribution Network Using GA”, International Journal Of Electrical And Electronic Engineering& Telecommunications (ISSN 2319 – 2518) Vol. 3, No. 2, April 2014.

http://ijeetc.com/ijeetcadmin/upload/IJEETC_533baecf41e88.pdf.

10. Mr. **M.RAVIKUMAR**, “Mitigation of Power Quality problems by UPQC for Renewable Energy Resources using Fuzzy Logic Technique” ,Int. Journal Of Engineering Research And Applications, ISSN: 2248-9622, Vol. 4, Issue 5 (Version 5),May2014,pp.19-26

http://www.ijera.com/papers/Vol4_issue5/Version%205/D045051926.pdf.

PROGRAMMES ORGANIZED:

1. Guest lecture was arranged on “Power system Protection and Control” by Mr. **K.KARUNAKAR**, Sr. Engineer (Design and project manager) SIEMENS pvt.ltd. Singapore on 4th Jan 2014.
2. Arranged an interactive session for IV B.Tech students with Mr. **K.V. HARI KRISHNA** (All India Gate 1st Rank holder and Alumni of VRSEC) in the e-class room of EEE department at VRSEC on 27th Jan 2014.
3. Organized One day workshop on “PLC & SCADA” as a part of Inter Institutional Faculty development Programme under IQAR (internal quality assurance cell) at e-class (room no.255). Resource persons for PLC: Sri. **K.VENUGOPAL**, D.E. & for SCADA Sri **P.V.SRINIVAS**, D.E. Vidyut Soudha, HYD on 31st Jan-2014.
Coordinator: Mrs. **D.RAGALEELA** ,Sr. Asst.Professor



4. Guest lecture is arranged for all III B.Tech students and staff on “Hydro power plant operation and substation layouts”. Resource persons are Sri. **S.SAI BABU**,D.E (operation & maintenance, Srisailam right bank) and Sri.K.Butchaiah Chowdary , D.E (Hot Line-AP Transco,Vijayawada), on 7th Feb 2014.

5. Organized two day national seminar on “Recent Innovative trends in electrical motors and its Industrial applications” (RITEMIA-2014) on 20th& 21st Feb 2014 sponsored by DST & SAGTE

Co-ordinator: Mr. **M.V.RAMESH**.



6. EEE & ECM departments jointly organized a two day workshop on “Advanced Trends in Embedded systems” (ATES-2014) on 28th Feb. & 1st March 2014.

Co-ordinator: Smt. **J. HEMALATHA**, Sr. Asst. Professor EEE Dept.

Mr. **T.PRAVEEN**, Asst. Professor ECM Dept.

RESEARCH PROJECTS APPLIED BY THE DEPARTMENT:

S. No	Name of the faculty	Project details	Main / Project	Amount in Rs.
1.	Dr. CH.PADMANABHA RAJU Professor	Development of intelligent energy management systems for micro grids	UGC major research project	19,96,000
2.	Dr. CH.PADMANABHA RAJU Professor	Design, implementation and analysis for improved multiple inverter micro grid and public lighting system for rural application	AICTE – RPS	24,75,000
3.	Mr. N. VIJAYA ANAND Assoc. Professor	Research and technical challenges for development and deployment of smart electric grid	AICTE – FDP	6,80,000
4.	Mrs. D. RAGALEELA Sr.Asst.Professor	Development of cost and energy efficient strategy for EHVAC load control under dynamic real time electricity pricing	UGC – Minor research project	4,90,000

5.	Mr. M.V. RAMESH Assoc. Professor	Star based PMLDC motor driven electric vehicle	UGC – Minor research project	4.7 lakhs
6.	Mr. M.V. RAMESH (Co-Ordinator) Assoc. Professor & EEE Staff	Design and fabrication of PMLDC motor	SAGTE	0.9 lakhs

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

- Mrs. **D.RAGALEELA**, Mrs. **V.SAI GEETHA LAKSHMI**, Ms. **G.MADHAVI** attended two week ISTE workshop conducted by National Mission on Education through ICT Empowerment of students and teachers through synchronous and Asynchronous instruction on “**Signals and systems**” from 2nd – 12th Jan 2014 by IIT, Kharagpur (conducted in PVPSIT).
- Dr. **CH.PADMANABHA RAJU**, Mr. **MV RAMESH**, Mr. **N.VIJAYAANAND**, Mr. **A.PURNACHANDRARAO** & Mr. **Y.VISHNUMURTHULU** attended one day awareness programme on “**IPR & Patents**” on 25th Jan 2014 at VRSEC. Speaker of the programme: Mr. ASHOK DOPPLAPUDI, Patent Engineer, Ford Motors, Chennai.
- Mr. **A.PURNACHANDRARAO**, Mr. **M. SESHU** attended a 3 day workshop on “**Recent Trends in Power Electronics and Renewable Energy sources**” at MuffakhamJah College of Eng., Hyderabad from 27th – 29th Jan 2014.
- The following staff members attended Webinar series on “**Sensor measurement fundamentals**” from 28th – 31st Jan 2014.
Mr. **B.MOHAN**, Mr. **K.VIJAYA KRISHNA**, Mr. **.M.V.RAMESH**, Mr. **A. PURNACHANDRARAO**, Mrs. **D. RAGALEELA**, Mr. **Y.VISHNUMURTHULU**, Mrs. **A. VIJAYASRI**, Mr. **M. HEMANTHSAI**, Mr. **M. SESHU**, Mrs. **M. DEVIKA RANI**, Mr. **B. BADDUNAİK**.
- Mr. **A.PURNACHANDRARAO** & Mr. **B.MOHAN** attended a guest lecture on “**Embedded systems design challenges**” Speaker: Dr. SRT Ramaswamy, Manager, R&D (Effetronics), Vijayawada on 7th Feb 2014.

6. Mr. **A. PURNACHANDRARAO** attended training program for resource persons and evaluators on “outcome based accreditation” organized by VRSEC in two phases: 3rd Feb & 15th -17th Feb 2014.
7. Mr. **B.MOHAN** & Mr. **Y.VISHNUMURTHULU** has participated in a two day workshop on “Advanced softwares for Power system simulation” during 21st -22nd Feb 2014 organized by NIT Warangal.
8. Mrs. **E.SUNEETHA** Lab Technician attended One day training programme “Spectrum analyzer and Agilent Lab station” for lab Technicians on 7th March 2014 at PVPSIT.
9. Mr. **C.KUMAR** attended two day short term course on “Fuzzy systems and neural networks in power system optimization” organized by AU college, VSP on 4th – 5th April 2014.
10. Mrs. **V.SAI GEETHA LAKSHMI**, Mrs. **.A.VIJAYASRI**, Mr. **B.MOHAN** attended two day faculty development program on “smart grid technologies” at VRSEC on 11th - 12th April 2014.
11. Mrs. **D. RAGALEELA**, Mr **.B. BADDUNAIK**, Mr. **M. RAVI KUMAR** attended one month audit and credit course on “Research methodologies” & “Intellectual property rights and patents” (IPR) on 1st – 30th May 2014 at JNTUK, Kakinada.
12. Mr. **M. RAVI KUMAR** ,Ms. **G. MADHAVI** ,Ms. **S.USHA RANI** attended Four day refresher course on “ Electrical circuit analysis” at Gudlavalleru college on 9th -12th June 2014.
13. Mrs. **V.SAIGEETHA LAKSHMI**, Mr. **B. MOHAN**, Mr.**K. DIVYA SRI**, Mrs.**CH. TRINAYANI** attended Faculty development programme on “Effective teaching and Assessment strategies” at VRSEC on 16th – 21st June 2014.

FACULTY INTERACTION WITH OUTSIDE WORLD:

1. Dr. **CH.PADMANABHA RAJU** delivered keynote speech at National level conference “Challenges and approach in practical implementation of micro grids” organized by Grandhi Varalakshmi VenkatRao Institute of Technology, Bhimavaram on 8th Feb 2014.
2. Sri. **S.VENKARESWARA RAO** acted as Recruiting panel member for interviews of Executive Electrical trainees on 13th February 2014 for KCP sugars, Vuyyuru.
3. Dr. **CH.PADMANABHA RAJU** acted as judge for Technical Paper Presentation & Poster Presentation at MVR College, paritala on 21st March 2014

4. Dr. **CH.PADMANABHA RAJU** acted as judge for Technical Paper presentation at Sri Sarathi Institute of Engg., & Technology, Nuzividu on 9th April 2014.

STUDENT PARTICIPATION:

1. Mr. **M. SRIHARSHA** of II B.Tech & Mr. **N.S. SAI CHAND** of III B.Tech participated in Eenadu cricket tournament on 8th Jan 2014 at VRSEC, Vijayawada.
2. Mr. **V. ADITYA** of IV B.Tech participated in group western dance in National level student technical meet at KKR & KSR Institute of Technology & Science from 31st – 1st Feb 2014.
3. Mr. **V. ADITYA** of IV B.Tech participated in dance competition PRAKYATH-2014 held at CR Reddy College, Eluru from 7th – 8th Feb 2014.
4. Mr. **V. ADITYA**, of IV B.Tech, Mr. **LD RAM PRASAD**, III B.Tech., & Mr. **P.Y. ANAJANEYULU** of III B.Tech., participated in AFOSEC held at VRSEC during 14th – 15th Feb 2014.
5. Mr. **V. ADITYA**, of IV B.Tech, Ms. **A. SRI POOJITHA** of II B.Tech, Ms. **G. MYTHILY** of II B.Tech in the national level Techno management cultural fest SAMYAK 2013-14 held at KL University from 20th – 22nd Feb 2014.
6. Mr. **K. KRISHNA SUMANTH**, Ms. **S. VIDYA** of III B.Tech participated in paper presentation in the national level Techno management cultural fest SAMYAK 2013-14 held at KL University from 20th – 22nd Feb 2014.
7. Ms. **V. BHAVANA** & Mr. **P. YESUANAJANEYULU** of III B.Tech participated in Techno war in the national level Techno management cultural fest SAMYAK 2013-14 held at KL University from 20th – 22nd Feb 2014.

STUDENT ACHIEVEMENTS:

1. The following III B.Tech students have participated in the event of Electronic Champ “ELAN – 2014” and bagged prizes at IIT Hyderabad from 31st Jan – 2nd Feb 2014

Vamsi Krishna Devi	-	Lights, Camera ELAN	-	I position
K. DurgaPhanindra	-	Lights, Camera ELAN	-	I position
K.S.N.V. Ramesh	-	Lights, Camera ELAN	-	I position
G. Manikantasairam	-	Lights, Camera ELAN	-	I position
M. NareshBabu	-	Electronic Champs	-	II position
S. VijayaRaju	-	Electronic Champs	-	II position

P. Bhaskara Chari	-	Electronic Champs	-	II position
P. Esuanjaneyulu	-	Electronic Champs	-	II position
LD Ram Prasad	-	Electronic champs	-	Certificate of appreciation
ESVSK Gandhi	-	Electronic champs	-	Certificate of appreciation
M. BaluNaik	-	Electronic champs	-	Certificate of appreciation
J. Chaitanya Naga Gopal	-	Project- X	-	II position
V. SaiBhagawan	-	Project- X	-	II position
Dharma Teja	-	Project – X	-	II position

PLACEMENTS:

S.No	Name	Roll No	Company
1	SINGUMAHANTHI SINDHU SRI	10501A0271	TCS
2	CHATRAGADDA RAVI TEJA	10501A0217	AEGIS
3	VEMURI DIVYA LAKSHMI SARANYA	10501A0282	Verexo Solutions
4	VENUM SOWJANYA	10501A0283	Tech Mahindra
5	VURA TEJA	10501A0285	
6	GONA PRASHANTI	10501A0226	Infotech
7	YALAMANCHILI SAI SUDHIRA	10501A0288	
8	A. YOGA SAI SATWIK	10NG1A0260	
9	TUMULURI BHASKARA SAI BHARATH CHAND	10501A0277	Global Logic
10	TURAGA VENKATA SAI PRATHYUSH	10501A0278	
11	GURRAM SAI JYOTHI	10501A0229	GENPACT
12	YADLAPATI SISWITHA	10501A0287	CTS
13	NERUSU SIVA SAI KRISHNA	10501A0258	Agile Enterprise Solutions
14	NUTHAKKI VENAKTA PRASANTH	10501A0259	
15	PATTAN ALTHAF KHAN	10501A0262	
16	PENTELE SRAVYA	10501A0264	
17	SHAIK MOHAMMED ARSHAD	10501A0270	
18	TUMULURI BHASKARA SAI BHARATH CHAND	10501A0277	
19	TURAGA VENKATA SAI PRATHYUSH	10501A0278	
20	VEMPATI DURGA NAGA MALLESWAR	10501A0281	
21	NANDIPU SRAVANI	10501A0255	AEGIS

22	TURAGA VENKATA SAI PRATHYUSH	10501A0278	INFOSYS
23	VEMURI DIVYA LAKSHMI SARANYA	10501A0282	
24	KARRI VIDYA SAGAR REDDY	10501A0235	Maha Electronics Pvt. Ltd.
25	NARAHARI KARTHIK VARMA	10501A0257	
26	NUTHAKKI VENAKTA PRASANTH	10501A0259	
27	PENTELE SRAVYA	10501A0264	
28	SHAIK DAIHALEEMA	10501A0269	
29	THOTA NAGA DEEP	10501A0275	
30	TURAGA VENKATA SAI PRATHYUSH	10501A0278	
31	VEMURI DIVYA LAKSHMI SARANYA	10501A0282	
32	LINGAM UDAY KUMAR	11505A0207	
33	RAMISETTY UMADEVI	11505A0212	
34	SARAT BABU MOOLPURI	11505A0213	L&T Infotech
35	GONA PRASHANTI	10501A0226	
36	YENUGUTALA NEELIMA	10501A0290	Accenture

INDUSTRIAL VISIT:

- II B.Tech students visited Srisaileam & Nagarjuna Sagar Hydro electric power plants on 8th & 9th March 2014 accompanied by seven staff members
 1. Mr. **A. PURNACHANDRA RAO**
 2. Mr. **M. SESHU**
 3. Mr. **M. HEMANTH SAI**
 4. Mr. **M. RAVI KUMAR**
 5. Ms. **G. MADHAVI**
 6. Ms. **K. DIVYA SRI**
 7. Mr. **V. SIVA KIRAN KUMAR**



Srisaileam Hydro Power station

- IV B.Tech students went for Industrial tour to Bangalore from 26th – 28th March 2014 and visited CPRI & MEI accompanied by two staff members
Smt. **K. BHAVANA** & Sri. **M. SESHU**



CPRI, Bangalore

- III B.Tech students visited Dr. NTTPS, Ibrahimpatnam on 10th April 2014.



Dr. NTTPS