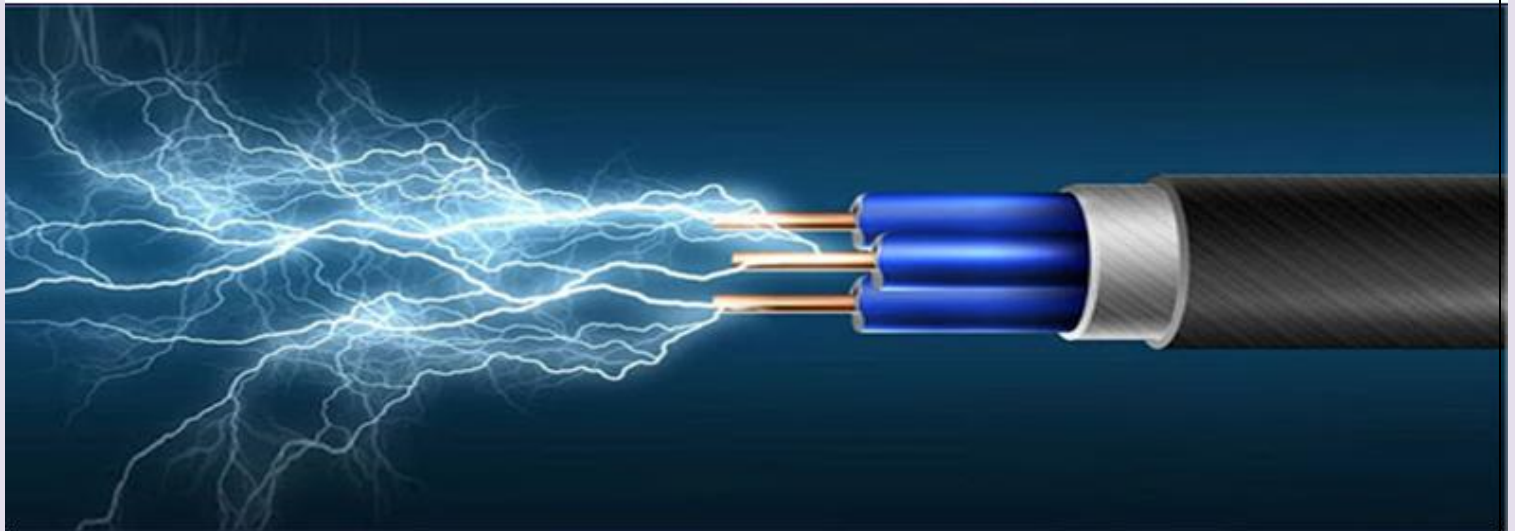# PRAGATI ENGINEERING COLLEGE

(Autonomous)

DEPARTMENT OF E.E.E

RADIANCE

ANNUAL TECHNICAL MAGAZINE

Volume- 1

SEPTEMBER-2016

2015-16
RADIANCE

Board of editors
Dr K. Satyanarayana
Professor & HOD-EEE

Mrs.P.V Prasunna,
Assoc Professor

Student Editors

Mr.G.GOWTHAM SAI   I E.E.E
Ms.RATNA HARIKA   I E.E.E

Address

Department of Electrical and Electronics Engineering

Pragati Engineering College

1-378, ADB Road, Surampalem, E.G.Dt, Andhra Pradesh, India-533437

CONTENTS

VISION
&
MISSION

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VISION:

To excel in engineering education and research, inculcating professional and social ethics among the students through academic excellence in the field of electrical & electronics engineering

MISSION:

M1: To impart quality technical education for students to make them globally competent and technically strong.

M2: To collaborate with industries and academic institutions to enhance creativity and innovation with professional and ethical values.

M3: To motivate faculty and students to do impactful research on societal needs and to build team work among them.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS):

PEO1 :To produce graduates with a strong foundation in the basic sciences, mathematics, computing and core knowledge in Electrical and Electronics Engineering problems through high quality technical education.

PEO2 :To prepare graduates for successful and productive engineering careers, with emphasis on technical competency and with an attention to serve the needs of both private and public sectors by developing novel products and solutions for the real-time problems in a socio-economic way.

PEO3: To inculcate professional & ethical attitude, honing effective communication skills and managerial skills to work in a multidisciplinary environment as a technocrat/administrator/entrepreneur and to acquire the knowledge for pursuing advanced degrees in Engineering, Science, Management, Research and Development.

PROGRAM OUTCOMES (POS):

PO1 Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences

PO 3 Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5 Modern tool usage: Create, select, and apply appropriate techniques, re- sources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6 The engineer and society: Apply reasoning informed by the contextual know- ledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities

relevant to the
professional engineering practice.

PO 7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11 Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multi- disciplinary environments.

PO 12 Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest con- text of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOS):

PSO1: Apply the concepts of Power Systems, Power Electronics and utilization of Renewable Energy in implementation of interdisciplinary projects.

PSO2: Acquire the knowledge of Electrical and Electronics Engineering to participate in national and international competitive examinations for success- for higher studies and employment.

ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering (EEE) is fully equipped and caters to the needs of all the students. The passed-outs as well as the current final year students achieved excellent placements in various MNC's. As a befitting reward to its incessant efforts in developing the department, the Department has added a feather in its cap by receiving the prestigious NBA accreditation in 2012 and also added prestigious NAAC with 'A' Grade and AUTONOMOUS in 2016.

Electrical branch has been qualified in AICTE-CII Survey-2015 and has grouped as "GOLD" category at National Level among a total of 2161 applications received by AICTE portal in the AICTE –CII Survey of industry linked technical institutes 2015. Pragati Engineering College has been granted the t-SDI (Technical Skill Development Institute) by APSSDC under G.O.MS.No.05, dated on 25-04-2016.

Progress of Science & Technology in the recent past has made enormous contributions to all walks of life. Research has played an indispensable role in the field of Electrical Engineering. Therefore zeal to pursue the latest advances has to continue.

With this objective in view, the department of Electrical and Electronics Engineering is publishing Technical Magazine to provide a forum for engineering students to update their knowledge & innovative ideas in the field of Electrical Engineering.

Dr. K. Satyanarayana M.Tech, Ph.D, MIE, MIEEE, MISTE, C Eng (Vice-Principal & HOD-EEE) is an Exuberant Person with a 14 Years Experience in The Teaching Field and 4years Experience in Industry. Having A Good Echelon, He Had Been Awarded "BEST TEACHER AWARD" On The Occasion of Sir Raghupati Venkata Ratnam Naidu Birth Day Celebrations By JNTU College Of Engineering, Kakinada On 01/10/2009. He has been awarded with PhD (Doctor of Philosophy) by JNTUK, KAKINADA on 20.06.2013 for the thesis entitled "Performance improvement techniques for Vector controlled Induction Motor Drives" under the guidance of Dr. A.Kailasa Rao, Professor and Director of Pragati Engineering college and Dr. J. Amaranth, Professor in EEE department, JNTUH, Kukatpally, Hyderabad. He has been felicitated by the College on 21.06.2013 for his meritorious achievement.

Dr. G. Naresh is appointed as Dean (Administration) of Pragati Engineering College and also awarded PhD in Electrical & Electronics Engineering by JNTUK, Kakinada for the thesis entitled "Design of PSS and TCSC for Multi-Machine Power Systems Employing various Metaheuristic Techniques". He had been honored "BEST TEACHER AWARD" at JNTUK University Auditorium, KAKINADA.

Technical trends
- ❖ Paper Presentation
- ❖ Poster Presentation
- ❖ Technical Quiz
- ❖ Workshops
- ❖ Guest Lecture
- ❖ Industrial Visits

Technical trends

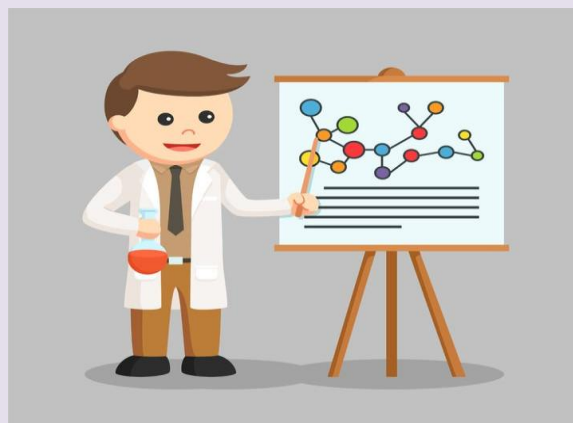### Paper Presentation

- ❖ Engineer's Day Celebrations

    Dated on 15.09.2015

    II & III ,IV B.Tech , participated 30 students

- ❖ A National Level Technical Symposium
    Dated on 09.01.2016
    II & III B.Tech, participated 25 students

Technical Quiz

- ❖ A National Level Technical Symposium
    Dated on 09.01.2016
    I & II B.Tech participated 36

Poster Presentation

- ❖ A National Level Technical Symposium
    Dated on 09.01.2016
    I & II & III B.Tech participated 40

- ❖ A World Students Day
    Dated on 15.10.2015,
    II B.Tech participated 25

Workshops

- ❖ Electrical Computer Aided Design (E-CAD) Dated on 08.09.2016 to 10.09.2015
    II B.Tech, participated 48 students.

- ❖ Gosolar
    Dated on 03.02.2017 to 04.02.2016
    II & III B.Tech, participated 80 students.

Guest Lectures

- ❖ Protection of Generators
  Dated on 07.12.2015,
  II & III B.Tech, participated 170
- ❖ Operation of 33.11KV Sub-Station
  Dated on 10.12.2015,
 III & IV B.Tech, participated 100

Industrial Visit

- ❖ Andhra Pradesh Gas Power Corporation Ltd., (APGPCL) Vijjeswaram Power Plant

  Dated on 17.08.2016, 18.08.2016, IV B.Tech, participated 141 students

- ❖ A 220MW Combined Cycle Power Plant Reliance Infrastructure Limited, Samalkot
  Dated on 08.03.2017,II B.Tech, participated 93 studen

NPTEL

NPTEL contents can be used as core curriculum content for training purposes. NPTEL Open Online courses were initiated so that students anywhere can directly learn from faculty.
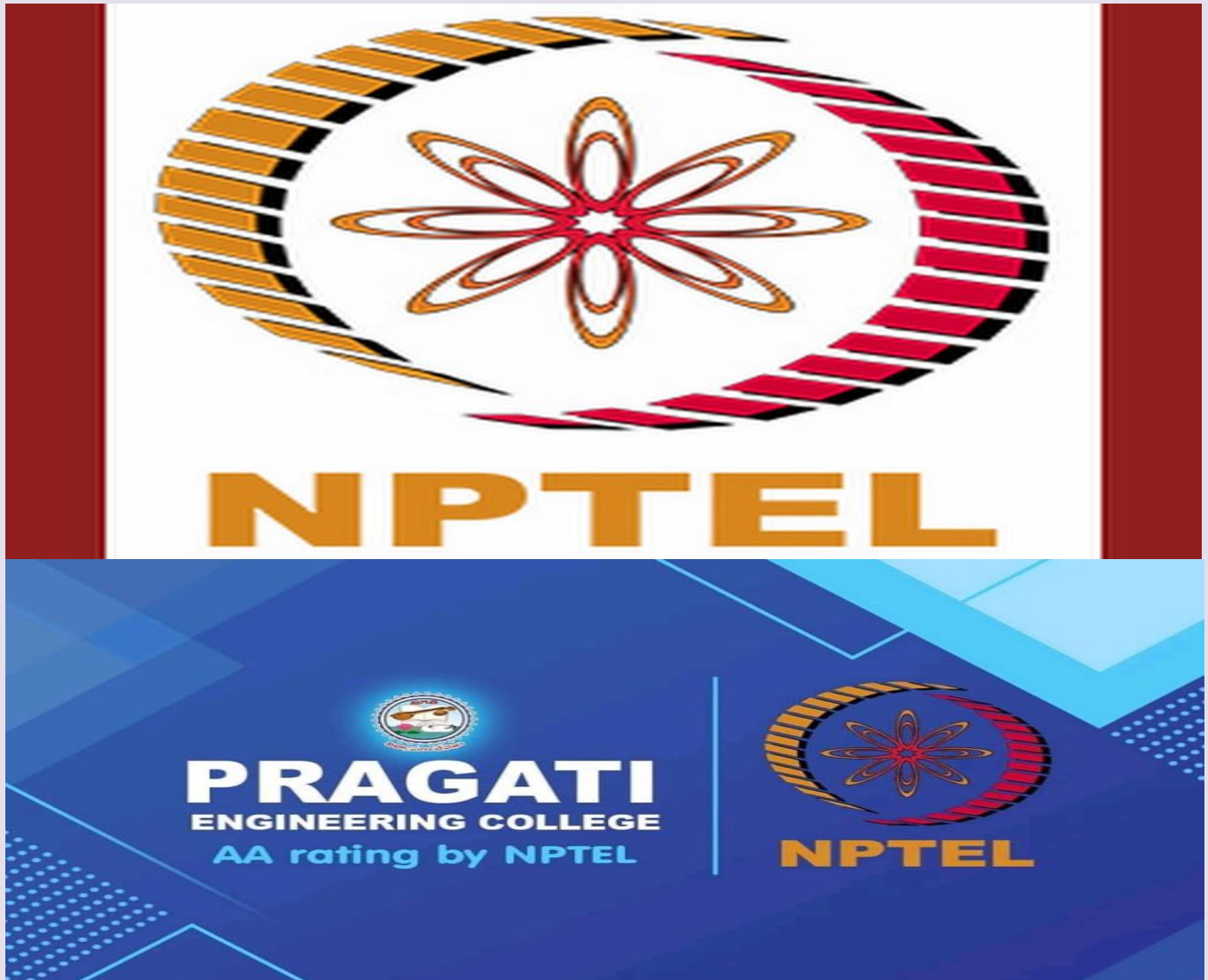
NPTEL certificates

S.no	*Name of the candidate*	*Roll no Name of the candidate*	*Course*	**Certification** *type*
1	KALLURI SAI KALYAN	13A31A0287	Introduction to Modern Application Development	*Elite+Silver*
2	RAMA KRISHNA	13A31A0271	Introduction to Modern Application Development	*Elite*
3	ESV SRIRAM	13A31A0278	Introduction to Modern Application Development	*Elite+Silver*

Technical Symposium

The College strides enhance the technical knowledge of students and provide them a platform to exhibit their talents. It help students to identify and understand the various aspects of their domain which provides opportunities for them to develop their versatility and charisma in the divergent facet of their growth.

STRIDES-Exult-2016

The Department of Electrical and Electronics Engineering of this college organized a One-day National Level Technical Symposium "Exult-2k16 Under STRIDES" on 5th January, 2016. This event was inaugurated by the Chief Guest, Dr. A Kailasa Rao, Former Principal of JNTUK and CARD JNTUH. The Chief Guest, in his message conveyed that exposure to technical symposium will acquaint knowledge on the emerging technologies like solar and wind power generation for the future generations.

Dr. P. Krishna Rao, Chairman of the College emphasized that EXULT-2K16 is an opportunity for Electrical students to explore their innovative ideas and make them acquainted with latest technological trends.

Dr. S. Sambhu Prasad, Principal of the college addressed that unless we dirt our hands in mines we can't get diamonds and with hard work all countries should bind for legal energy efficiency devices to lit the world forever and extended his wishes for making event successful.

Dr. K. Sathyanarayana, Vice-Principal & HOD-EEE, who played a pivotal role in organizing this programme said that about 246 Entries were Presented in various events like paper Presentation, Poster Presentation, Project Presentation and Technical Quiz, Out of which 30 Paper Presentations, 50 Poster Presentations, 30 Project Presentations and 30 Technical Quiz teams were selected in the final round. Sri S.M.Shariff and Sri.K.Siva Prasad, Assistant Professors of EEE are acted as coordinators.

Sri. T Murali Mohan and Sri. M Ravindra Babu Assistant Professors , JNTUK are acted as Judges for the event. Sri M. V. HarnathBabu, Director (Mgmt), Sri. M. Satish, Vice-President Dr.G.Raghu Ram, Director, Dr. G. Naresh, Associate-Professor of EEE, HODs', Staff, Participants and students are present at the Prize distribution function.

PRIZE WINNERS OF THE EVENT:

PAPER PRESENTATION:

FIRST PRIZE: Topic "Witricity Technology"
1. Mr. DVNSS Subhash from Srinivasa Institute of Engineering & Technology , Cheyyeru.

SECOND PRIZE: Topic "Smart Grid"
1. Ms. Mohammedd Jafri 2. Ms. M. Harichandana from JNTUK, Kakinada

POSTER PRESENTATION:

FIRST PRIZE: Topic "Fuel Cell in Aero Space"
1. Ms. K Bhargavi Priyanka 2. Ms. V Bhargavi sai from ISTS Womens Engg. college, Rajanagaram.

SECOND PRIZE: Topic "Plant Microbial Fuel cell"
1. Mr. K Sainadh Manohar 2.Mr. R Prasanth from Pragati Engineering College, Surampalem.

PROJECT MODEL DISPLAY:

FIRST PRIZE: Topic "Identification of Accident Vehicle"
1. Mr. L Naveen
2. Mr. M Naveen
3. Ms. A Amulya from Pragati Engineering College, Surampalem.

SECOND PRIZE: Topic "Power Generation Using Speed Brakers"
1. Ms. S Yasaswini Shirisha
2. Ms. K Sivakumari from Pragati Engineering College, Surampalem

TECHNICAL QUIZ:

FIRST PRIZE:
1. Ms. L Niharika
2. Ms. K Sri Tarani
3. Ms. P Varalakshmi from Pragati Engineering College, Surampalem

SECOND PRIZE:
1. Mr. S Abbai
2. Mr. V Uttej
3. Mr. B Shanmukha Rao from Pragati Engineering College, Surampalem.

Student publications:

Authors
B. Prasanna Sai
S. Bhagya Sree
G. Manikantha

B-TECH
III-EEE

Speed and Position Controlling of Stepper Motor Using ZIGBEE

Nowadays the remote area is experiencing a great demand for various field of engineering. Stepper motor, one of the most common motor widely used in controlling especially to achieve a precise measuring of a motor's rotor operation. Stepper motor is the best choice to be chosen for certain applications which requires high specification. Hence the aim for this project is to construct a stepper motor controller while enhancing its performance in terms of controlling. The purpose of this project is to control the speed and direction of a stepper motor using Zigbee module using wireless controlling method. The aim is to able to control the turn of stepper motor rotor direction clockwise or anti-clockwise and decrease or increase the speed. Instead of using in industrial application such as remote control device, valve operation or any other electrical device operation; the device also can be apply for home application such as camera monitoring.

Authors
Ms. T. Sowmya
Ms. G. Sravya Lekha
Mr. P. N. N. K. Bhargav

B-TECH
III-EEE

Intrusion Detection and DC Motor Controlled Wireless Firing Unit for Border Security

In this paper, the conventional Automatic Firing Unit (AFU) based border security gives accurate firing rate but there is a chance of firing a person who is not an intruder. So in the proposed controlling the drawback of the conventional AFU is effectively overcome by the proposed control. The Pyro-electric Infrared (PIR) sensor is arranged in the border where security is the main priority. The Zigbee module transmits the video data to a receiver equipped in the main control room. Video will be used to adjust the laser to intruder and the firing will be done from the Control room. So, the proposed control is more effective compared to the conventional control. Graphical User Interface (GUI) and Radio Audio Video Receivers are mainly used for firing unit controlling.

A Design of Prototypic Hand Talk Assistive Technology for the Physically Challenged

Authors
S. Siva Srujana
S. Jahnavi
K. Jhansi

B-TECH
III-EEE

In our day to day life most of the task we carry out involves speaking and hearing. The deaf and dumb people have difficulty in communicating with others who cannot understand sign language and misinterpreters. In this paper, we designed a simple embedded system based device for solving this problem .we have use flex sensor for getting the data from the deaf and dumb people using sign language and microcontroller AT89c51 for controlling all operations and APR 9600 voice chip for voice storage.LCD display and speaker are used as output device to convey the message to deaf and dumb people. Keil and proteus software tools are used for compiling software coding and simulating the design.

GSM based Interactive Voice Response System for Wireless Load Controlling and Monitoring

Authors
G R. N. S. Anusha
G. Bhavidya
G. Denis Leslie

B-TECH
III-EEE

With the current advancement in wireless networks and various technologies implemented for automation, more innovative and improved ideas are developed to build automation systems facilitating remote controlling and monitoring of devices. In this project, a GSM based wireless home automation system is proposed and deployed which executes its function of controlling and monitoring appliances remotely. It is compliant, cost effective, low power consumption; highly efficient GSM (Global System for Mobile Communication) based wireless home system. The Interactive Voice Response System (IVRS) is improvised to embellish the system's security and ease of operation. With the help of this system the user can access his home appliances from anywhere and at anytime as per the requirement aiding convenience. The system permits the user direct devices through his mobile by sending commands

Constant Power Generation from Wind Turbine by Wind Tracking

Authors
B. Shanmukha Rao
D. Rajesh
M. Chandra Moul

B-TECH
III-EEE

Now-a-days the Generation of Electrical Energy is increasing by using of Renewable energy resources. Among those wind power generation is mostly preferred because it does not emit any hazardous gases and doesn't need any fuel cost. Themain idea of this paper is to design the wind

turbine that changes its direction according to wind speed and wind direction andproduces constant output power.IR sensors are used to sense wind direction. A microcontroller with dc motor is used to rotatewind turbine according to wind direction.

Authors
A.V.V. Rama Krishna
Ch. Sukanya Devi
P. RajaSneha

B-TECH
III-EEE

Home Automation Using Remote Control System

This paper provides remote controlling and automation for homes and offices. These are very essential in present lifestyle. Wireless control is primary concern for everyone. This paper describes a design of effective remote control system that can monitor the house. Apart from remote control concern here we also take care of home automation. This paper gives the best solution for electrical power wastage. The home appliances are switched on/off using IR without actually going near to the switch boards or regulators. The water level of the tank can also be monitored and the motor can be controlled through automation.

Authors
M.Paramesh
Chinta Aravind Siva Sai
T.Arun Kumar

B-TECH
III-EEE

Green Charge: Renewable Energy for Smart Buildings using Solar Panel

A flexible home device energy control with generation of energy using renewable energy sources like solar, wind etc. This energy can used to operate various apparatus of our home. The proposed system helps to easily control lights, fans, and many other devices around our home with the help of different sensor and generation of energy through solar and wind as well. The proposed system also included remote control of various devises which will reduces the human effort and make the system smart. Proposed system will help to reduce the energy consumption by controlling the home appliances through remote control system. The entire system is designed and tested in the laboratory.

GSM Based Automatic Irrigation System

Agriculture in India is the means of livelihood of almost two thirds of the work force in the country. It has always been India's most important economic sector. The increase in post-independence agricultural production has been brought about by bringing additional area under cultivation, extension of irrigation facilities, use

Authors
N.Prameela Jyothi
B.V.V.R.K.M. Praveen Kumar
L. Naveen

B-TECH
III-EEE

Authors
S. Yasaswini Shirisha
V.Uttej
Y. Lakshmi Pravallika

B-TECH
III-EEE

of better seeds, better techniques, water management and plant protection. The life of a farmer goes beyond tilling and yielding crops. The farmer should be alert to water the fields at regular intervals of time to obtain good results. This paper provides an easy and efficient technique to water the fields whenever the water is required in the field, without going to the field or to the pump set. This system is entirely an automated product. The set up consists of Micro-Controller, GSM serves as a feedback whether the motor is ON/OFF under required condition. Microcontroller is an advanced version of microprocessors and forms the heart of the system.

DESIGN AND IMPLEMENTATION OF EFFICIENT SOLAR POWERED DC-DC BOOST CONVERTER FOR LOADS

This paper includes a high step up voltage gain DC-DC converter for DC micro grid applications. The DC micro grid can be utilized for rural electrification, UPS support, Electronic lighting systems and Electrical vehicles. The whole system consists of a Photovoltaic panel (PV), High step up DC-DC Boost converter with Maximum Power
Point Tracking (MPPT) and DC micro grid. The entire system is optimized with both MPPT and converter separately. Converter optimization includes a high step up DC-DC converter which comprises of both coupled inductors and switched capacitors. This increases the gain with high efficiency. Both converter optimization and MPPT optimization increases overall system efficiency. Hardware of the system can be implemented by either voltage mode control or current mode. The key aspect is monitoring system which separates the battery when it discharges more than 75% and connect it's to main supply using relay

Robot Navigation System with RFID and Ultrasonic Sensors

This Paper proposed a new navigation method for indoor mobile robots. The robot system is composed of a Radio Frequency Identification (RFID) tag sensor and Ultrasonic sensors. The RFID tags are used as landmarks for global path planning and the topological relation map which shows the connection of scattered tags through

Authors
A.Seshanka Venkatesh
K.Vamsi Krishna
N.K.R.Swamy
P.Simhachalam

B-TECH
III-EEE

Authors
G.Y.R.S.Narayana
K.Ganesh
D.V.Raghu Babu, M.S.S.Harsha

B-TECH
III-EEE

the environment is used as course instructions to a goal. The robot automatically moves along hallways using the scanned range data until a tag is found and then refers to the topological map for the next movement. Our proposed technique would be useful for real-world robotic applications such as intelligent navigation for motorized wheelchairs, surveillance and security purposes and in Nuclear power plants where humans are prone to harmful radiation

### Analysis of Seven Level Asymmetric Cascaded H-Bridge Inverter

The cascaded multilevel inverter (CMLI) has gained much attention in recent years due to its advantages inhigh voltage and high power with low harmonics applications. A standard cascaded multilevel inverter requires nDC sources for 2n+1levels at the output, where 'n' is the number of inverter stages. This project presents a topology to control cascadedmultilevel inverter that is implemented with multiple DC sources to get 2n+1-1 levels. Without using Pulse Width Modulation (PWM)technique, the firing circuit can be implemented using Microcontroller which greatly reduces the Total Harmonic Distortion (THD) andswitching losses. The model of a cascaded hybrid multilevel inverter is developed with software simulation using MATLAB/SIMULINk

Staff Activity

S.no	Academic Year	Title of the Faculty Development Programme	Name of the Resource Person(s)	Date (s)	No.of Participants
1	2015-2016	Three Day Faculty Development Programme on "Design & Analysis of Electrical Machines and Multilevel Inverter topologies"	1)Mr. V. Naresh, Managing Director Naresh Engineering Training Institute 2) Dr. K. Satyanarayana Professor &HOD of EEE Pragati Engineering College. 3) Mr.G.Naresh Assoc.Professor of EEE Dept. Pragati Engineering College	03.07.2015 to 05.07.2015	40

Faculty membership in professional bodies
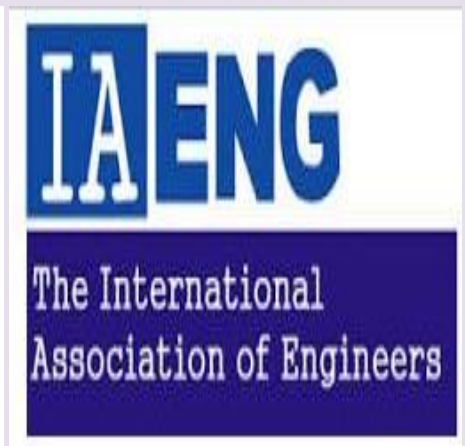
The mission of the professional societies is primarily educational and informational. Their influence flows from their continuing and highly visible functions: to publish professional journals, to develop professional excellence, to raise public awareness, and to make awards.

s.no	Faculty name	committee
1	Dr. K.Satyanarayana	1. Life member of Indian Society for Technical Education 2. MIE Life member of Institute of Engineers (INDIA)
2	Dr. G.Naresh	1. Member of Indian Society of Technical Education (ISTE) 2. Members of International Association of Computer Science and Information Technology (IACSIT)
4	Mr. S.M.Shariff	Member of Indian Society of Technical Education (ISTE)
5	Mrs. P.VijayaPrasuna	
6	Mr.I.Murali Krishna	
7	Mr.S.Ashokreddy	
8	Mr.D.Krishnachaitanya	
9	Mr.P.Krishna chaitanya	
10	Mr.M.N.V.V.Brahmmam	
11	Mrs.K.Sandyarani	Member of International Association of Engineers (IAENG)

Faculty achievements

Consultancy projects

S.NO	Faculty Incharge	Nature/Title of Consultancy Work	Client/Organization /Company	Duration	Amount Earned	Year of Sanction
1	Dr.K.Satyanarayana	E-Content Developmen	Globarena Technologies	6-8 months	2,50,000	2013
2	Dr.A.Kailasa Rao	E-Content Development	Globarena Technologies	6-8 months	2,50,000	2013

Faculty reviewers for journals

s.no	Faculty name	Reviewer/member in Journal/Conference
1	Dr. K.Satyanarayana	1.Taylor & Francis (Electric Power Components & Systems 2.International Journal of Engineering and Advanced Technology 3. International Journal of Scientific & Engineering Research -IJSER
2	Dr. G.Naresh	1.International Transactions on Electrical Energy Systems,Wiley 2.CPSS Transactions on power Electronics and Applications , A Publication of China Power Supply Society 3.International Energy Journal(IEJ),Regional Energy sources information Centre (RERIC) journals ,Asian institute of Technology,Thailand 4. Computers & Electical Engineering ,Elsevier Publishers 5.Electric Power Components & Systems Journal ,Taylor and Francis

Faculty publications

Number of publications for the academic year 2015-16

S.No.	Name of faculty	No.of Publications
1	Dr. K Satyanarayana	03
2	Dr. G Naresh	01
3	Sri S M Shariff	01
4	Ms. Ch. Mangalakshmi	01
5	Mr. I Srinu	03
6	Mr. I Murali krishana	01
7	Mrs. P Vijayaprasuna	01
8	Mr. P Sailesh babu	03
9	Mr. M Veera chandrakumar	01
10	Mr. G Bhavannarayana	01
11	Ms. M Mangalakshmi	01
12	Ms. A. Durga Bhavani	01
13	Mrs. G. Durga Devi	01
Total No. of Papers Published		14

LIST OF PUBLICATIONS FOR THE ACADEMIC YEAR 2015-16 (01/07/2015 to 31/06/2016)

INTERNATIONAL JOURNALS

1. Sri. K Dhanaraj, **Sri. I Srinu and Dr.K Satyanarayana** published paper on "**Performance Improvement of fuzzy PID Controller Based process control system**" in International Journal of engineering and Advanced Technology (IJEAT) at Volume-4 Issue-6 August 2015 pp 286 to291 ISSN 2249-8958

2. Sri. M Balakrishna Naik, **Sri. I Murali krishna and Dr. K Satyanarayana** published paper on "**Performance Analysis of D-STATCOM with Consideration of power factor Correction**" in International Journal Scientific & Engineering Research(IJSER), at Volume 6, Issue 8, August 2015 pp 1787 to 1791 ISSN 2249-5518

3. Sri. B Pradeep rajavardan and **Mrs. P Vijayaprasuna** published paper on "**Analysis and Design of Interleaved Boost converter for Improvement of THD and Input power factor in Rectifiers**" in International Journal Science Engineering and Technology Research (IJSETR), at Volume 4, Issue 37, September 2015 pp 7930 to 7937 ISSN 2319-8885.

4. **Mr. M Veerachandra kumar**, M.Sridhar Bhatlu, K.V.B.G.S.S.Datta, S.Adivishnu published paper on "**Bidirectional Speed Control Of DC Motor Using GSM**" in International Journal of Engineeringresearch Online (IJERO) , on September 2015 Volume-3 Issue-5 ISSN 2321-7758.

5. **Ms. M Mangalakshmi,** G D Sai ram vihari, and T Venkata parasuram**,** published paper on "**Analysis Of Seven Level Asymmetric Cascaded H-Bridge Inverter**" in International Journal of Science Engineering and Advance Technology(IJSEAT) , on September 2015 Volume-3 Issue-9 ISSN 2321-6905

6. **Mr. G. Bhavanarayana**, Chavvakula Swamy, Ganta Mounika, yedlapalli netaji, **and** Sundru Sri durga published paper on "**Analysis and hardware implementation of five level cascaded H Bridge inverter**" in International Journal of Engineering Research and Applications (IJERA) , on October 2015 Volume-5 Issue-10 ISSN 2248-9622

7. **I. Srinu,** B.Satish, M.V.V.Krishna Teja T.Srikanth **"Modeling and Simulation for Voltage Sags/Swells Mitigation Using Dynamic Voltage Restorer (DVR)"** Published in **International Journal of Scientific Research** Volume: 4 Issue: 10 October 2015 • ISSN No 2277 - 8179.

8. **Dr. G Naresh,** Dr. M Ramalinga raju and Dr. SVL Narasimham published paper on "**Coordinate design of power system stabilizers and TCSC employing improved harmony search algorithm**" in Swarm and Evolutionary Computation , on 03 November 2015 ISSN 2210-6502.

9. Mr. P.N Surrendra, K Srinivas, A padmaraju, T saisaran and **Mr. I Srinu** published paper on "**Fault Detection Using Instantaneous Three phase Power Based Function for Transmission Line protection**" in International Journal of Scientific research (IJSR) , on November 2015 Volume-4 Issue-11 ISSN 2277-8179.

10. Ms. P.Sukrutha, Ms. KTS Meghana, Mr. N Arunkumar, and **Mr. P Sailesh Babu** published paper on "**Design and simulation of Dynamic Voltage Retorer (DVR) Using sinusoidal Pulse width Modulation(SPWM)**" in International Journal of Scientific research (IJSR) , on November 2015 Volume-4 Issue-11 ISSN 2277-8179.

11. Mr. B Sivaganesh, Ms. K Sneha , Ms. YSSS Rajeswari and **Mr. P Sailesh Babu** published paper on "**High frequency step-up DC-DC Converter with High efficiency for high power application and principle of its control**" in International Journal of Scientific research (IJSR) , on November 2015 Volume-4 Issue-11 ISSN 2277-8179.

12. **Ms. A. Durga Bhavani, Mrs. G. Durga Devi, Dr. K. Satyanarayana**, published paper on " An improved speed and torque performance of ANFIS based direct torque controlled induction motor drive" in International Journal of Scientific & Engineering Research, Volume 6, Issue 12, December-2015 pp no. 323-327.

13. K. Rani Hepsiba, **S. M. Shariff, P. Saileshbabu**, published paper on " Analysis of UPQC under Unbalanced and Distorted Load conditions using Synchronous Reference Frame Method" in International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-5 Issue-2, December 2015 pp no.84-91.

14. N. A. Madhuri, K. Arun Kumar, **Ch. V. V. Manga Lakshmi**, published paper on "Performance Improvement of IUPQC in Distribution System under Abnormal Conditions Using PID" in International Journal of Science Engineering and Advance Technology, IJSEAT, Vol. 3, Issue 12 December 2015 p p.no. 1335-1341.