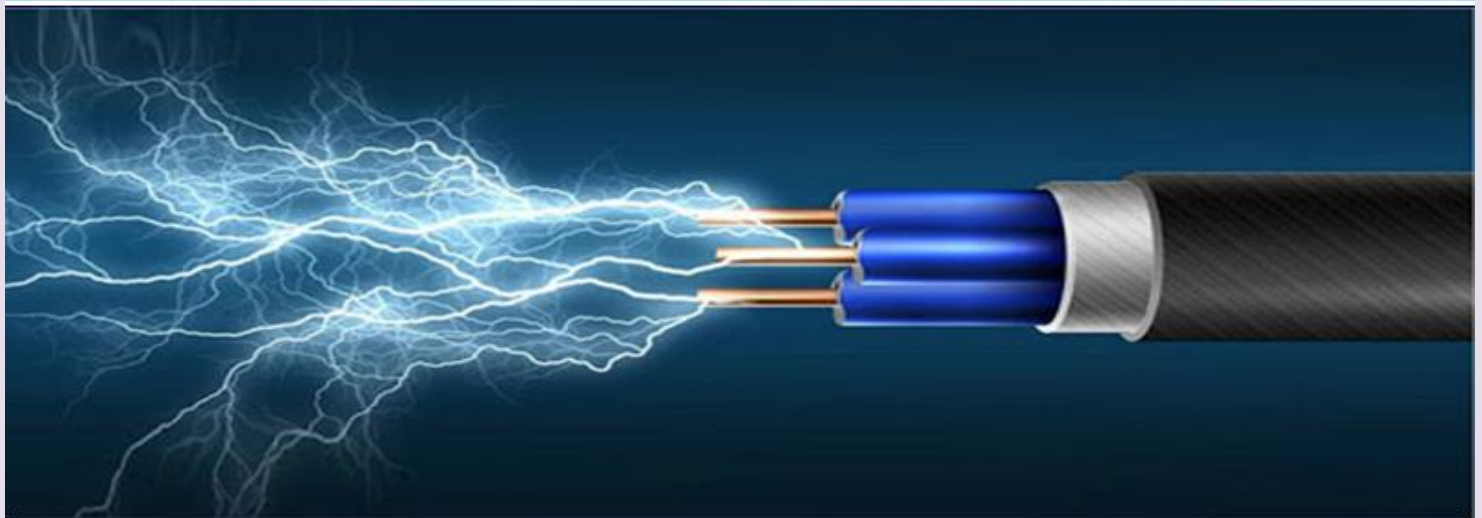


**PRAGATI ENGINEERING COLLEGE
(Autonomous)**

DEPARTMENT OF E.E.E



RADIANCE

ANNUAL TECHNICAL MAGAZINE

Volume- 2

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2016-17
RADIANCE

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Professor & HOD-EEE

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Address

Department of Electrical and Electronics Engineering
Pragati Engineering College
1-378, ADB Road, Surampalem, E.G.Dt, Andhra Pradesh, India-533437

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***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, resources, 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 knowledge 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 context 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



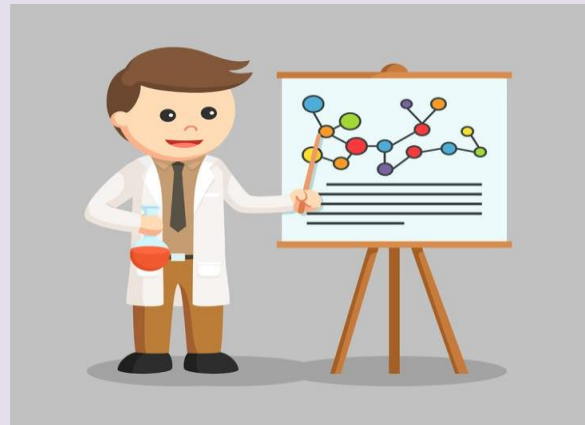
- ❖ Engineer's Day Celebrations
Dated on 15.09.2016
II & III ,IV B.Tech , participated 30 students
- ❖ A National Level Technical Symposium
Dated on 09.01.2017
II & III B.Tech, participated 25 students

Technical Quiz



- ❖ A National Level Technical Symposium
Dated on 09.01.2017,
I & II B.Tech participated 36

Poster Presentation



- ❖ A National Level Technical Symposium
Dated on 09.01.2017
I & II & III B.Tech participated 40
- ❖ A World Students Day
Dated on 15.10.2016,
II B.Tech participated 25

Workshops



- ❖ *Electrical Computer Aided Design (E-CAD)*
Dated on 08.09.2016 to 10.09.2016
II B.Tech, participated 48 students.
- ❖ Gosolar
Dated on 03.02.2017 to 04.02.2017
II & III B.Tech, participated 190 student

Guest Lectures



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



- ❖ Protection of Generators Dated on 07.12.2016, II & III B.Tech, participated 170 students.
- ❖ Operation of 33.11KV Sub-Station Dated on 10.12.2016, III & IV B.Tech, participated 150 students

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



NPTEL certificates

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.



S.no	Name of the candidate	Roll no Name of the candidate	Course	Certification type
1	CHITROTHU HEMANTHA KUMAR	14A31A0222	Computational Electromagnetics & Applications	Successfully <i>completed</i>
2	MOHAMMAD SWATHLANA SHARIFF	14A31A0214	Basic Electrical Circuits	<i>Elite</i>
3	NARAVA SAI KUMAR	14A31A0242	Basic Electrical Circuits	<i>Elite+Silver</i>
3	NETI PAVAN TEJA	14A31A0244	Developing Soft Skills and Personality	<i>Elite+Silver</i>
4	PASAGADUGULA GIRISH	14A31A0247	Basic Electrical Circuits	<i>Elite</i>
5	PASUPULETI DIVYA CHANDRA SRI	14A31A0212	Basic Electrical Circuits	<i>Elite</i>
6	SANGADI KAMESH	14A31A0250	Basic Electrical Circuits	Successfully <i>completed</i>
7	TALAPANTI PAVANI	14A31A0268	Basic Electronics	Successfully <i>completed</i>
8	GADAMSETTY SATYA NANDINI	14A31A0261	Basic Electronics	<i>Elite+Silver</i>

Technical Symposium

The College strives to enhance the technical knowledge of students and provide them a platform to exhibit their talents. It helps 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.



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)
(Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC with 'A' Grade)

Pragati Technical Club presents

STRIDES 2K17

Exploring the technology frontiers...

Exult (EEE)
Elever (CIVIL)
ERUDITE (MECH)
E JIVE (ECE)
Eprozyne (CSE&IT)

Project presentation
aper presentation
oster presentation
and many more
spot events

CHIEF PATRON: Dr. Paruchuri Krishna Rao
CHAIRMAN

PATRON: Dr. S. Sambhu Prasad
PRINCIPAL

CONVENER: Dr. D. Nagesh
ASSOC. PROF (ECE)





List of students awarded in curricular, co- curricular & extra- curricular activities

S.No	Event	Topic	Student name	Name of the event & venue	Date(s)	Award/ Reward
1	VED A-2K16	poster presentation on "PLC and SCADA"	U.Renuka Devi	VEDA-2K16 held at Aditya group of engineering colleges	31.09.2016 to 01.10.2016	2nd PRIZE
			P.Mani Malavika			
2	VED A-2K16	Paper presentations on "Motion sensoring technology"	J.Karthik Reddy	VEDA-2K16 held at Aditya group of engineering colleges	31.09.2016 to 01.10.2016	3 rd PRIZE
			S.Kamesh			
3	VED A-2K16	Quiz	Ch.sidhvik	VEDA-2K16 held at Aditya group of engineering colleges	31.09.2016 to 01.10.2016	1st PRIZE
			Ch.P.V.Suryakanth			
			Ch.Hemanth Kumar			
4	VED A-2K16	Quiz	N.S.Gowtham Reddy	VEDA-2K16 held at Aditya group of engineering colleges	31.09.2016 to 01.10.2016	3 rd PRIZE
			V.S.Nagendra			
5	EXUL T-2K17	Paper presentations on "Magneto Hydronamics"	V.Praveen	EXULT-2K17 held at Pragati Engineering College	09.01.2017	2nd PRIZE
			T. Santosh Reddy			
6	EXUL T-2K17	Poster presentations on "Electricity from Footsteps"	R.Siva Sai Prabhu	EXULT-2K17 held at Pragati Engineering College	09.01.2017	2nd PRIZE
			B.Krishna Raju			

Student publications:

Authors

Ch.Hemantha Kumar,
K.Venkata Ramana,
A.Sireesha,
U.V.S.D. Prasad,
K.Bindhu Mounika5,
K.Veerayya Dora6
B-TECH
III-EEE

Automatic street light operating system

Per capita electricity consumption of a county is an indication of development of the county among others. In developing countries like India, generation growth of electricity is not meeting the consumption growth of electricity. The demand of electricity is more than the generation every time. By efficient utilization of electricity, balance between the generation and demand can be achieved. Automating the street light system for efficient switching of street lights helps in reducing the electricity consumption drastically. In this paper, it is shown here that how Automation can be achieved using Arduino microcontroller. And its operation according to the seasonal changes is possible with flexible adjustments of system from PC using a specially designed computer software application in Java

Authors

P.Divya Chandra Sri
M.V.R.Lahari ,
B.Jyothi
P.K.Arjun
Y.Sagar

B-TECH
III-EEE

Smart City with Bluetooth of Things using Solar-Wind Power Generation

Now-a-days due to exponential rise in population, every city is facing problems for day to day requirements like street lights controlling, increasing global warming, water supply management and garbage management. In order to control all these applications from remote areas and to reduce the man power and increase automation, we are introducing BOT technique. In this paper we are going to manage street lights by using LDR sensor. Likewise, Garbage management, temperature indication and Water supply management at particular location are monitored thereby transforming normal city into a smart city. In this paper we supply power to the equipment of control unit from the solar-wind energy system. The electrical energy from solar-wind energy system is stored in battery bank. This energy is supplied to all the control requirements in the smart city besides managing all the equipments smartly. Then all the information from the different equipments is monitored in PC or in mobile using Bluetooth app.

Power line fault detection and rectification using robot

Authors
MD.SWATHLANA
V.SAI DIVYA,
N.SIREESHA,
CH.V.V.D.L PRASANTH,
K.L.NARAYANA,
Y.SAI SUBRAHMANYAM

B-TECH
III-EEE

Authors
B.Siva Rama Krishna
D.V.S Seshendra
G.Govinda Raja
T.Sudharshan
K.Srikanth

B-TECH
III-EEE

Authors
Basava Ram Durga
P.Subhash kumar
M.Punya Teja
K.N.S.lakshmi
G.lakshmi
Sowjanya

B-TECH
III-EEE

This paper describes the development of a mobile robot. The mobile robot walks on overhead power line transmission system. Its ultimate purpose is to automate to inspect the defect of power transmission line. The robot with 6 motors is composed of one arms, four wheels and a glue gun mount on the arm. A prototype robot was developed with careful considerations of mobility. The main purpose of this paper is to solve the problems in transmission lines. Out of all problems we deal with the problem, failing of compression line splices. We solve this problem by using a glue gun arrangement in the kit.

Railway Track Fault Detection System by Using IR Sensors and Bluetooth Technology

The paper proposes designing of robust railway crack detection scheme (RRCDS) using IR sensor assembly for railway track geometry surveying system by detecting the cracks on railway tracks. Most of the accidents in the train are caused due to cracks in the railway tracks, which cannot be easily identified. The manual inspection of railway track took more time and human fatigue. The proposed system introduces Bluetooth based technology, to prevent the train accident. Two IR sensors are installed at front end of the inspection robot which monitors the track and gives the status to Arduino controller. If there is crack found it immediately sends the location of crack via Bluetooth to mobile phone. The proposed broken rail detection system automatically detects the faulty railway track without any human interference. There are many advantages with the proposed system when compared to the traditional detective techniques. The advantages include less cost, low power consumption, and less analysis time and also facilitate better safety standards for rail tracks and provide effective testing infrastructure.

Speed Control of PMBLDC Motor Using PLC

The theme of this paper is to control the speed of the brushless Permanent magnet DC motor with the help of programmable logic controller [1]. Presently every industry becomes automated industry. To make the industry automation the equipment and machineries should be controlled automatically. In this design BLDC motor is controlled automatically through programmable logic controller. So number of machines can be controlled is increased. BLDC machines are used in applications of vital importance such as aerospace industry, tool drives, actuators and electric vehicle propulsion system. Here, the necessity for precise

control speed is evident and obvious. Pot is interfaced with programmable logic controller which is used to provide the desired speed value to the programmable logic controller. When the desired speed value is given to the programmable logic controller, the programmable logic controller sends the corresponding digital signal to the drive system and controlled according to the output required.

Machine vision based fire flame detection using multi features

Fire detection has many advantages over traditional methods, such as fast response, non-contact. But most of current methods for fire detection have high rates of false alarms. In point of general fires, the flames usually display reddish colors. And as an important physical feature of fire, the flame turbulent has a chaotic nature with abundant size and shape variation. If we consider the flame is made up of lots of spots, as a result of the turbulent movement, the spots velocity vector will be different from each other. A novel fire flame detection method based on color and dynamic features is presented. The method is proposed as followed, first, candidate fire regions are determined by flame sensor and sends a signal to the Arduino controller which activates the motor driver circuit which pumps the water. In addition to fire detection, Whenever there is an obstacle IR sensor senses it and the robot generates fire.

IoT Based Control and Monitoring of Smart Grid and Power Theft Detection by Locating Area

IoT based Smart Grid is an evolution of the existing electricity grid. Advancement in high speed communication and low cost sensor coupled with the increased deployment of the advanced provide utilities with better information to manage the grid. It comprises of a two-way communication where electricity and information are exchanged by the consumer and utility to maximize efficiency. The control center ensure the smart grid optimize circuit VAR flow and voltages, there by power theft location can be monitored with help of the smart transformers and smart energy [1] meters.

Hardware Implementation of an Underground Cable Fault Detection

Till last decades, cables were made to lay overhead & currently it is lay to underground cable which is superior to earlier method. Because the underground cables are not affected by any adverse weather condition such as storm, snow, heavy rainfall as well as pollution. But

Authors

K.Vasu
A.Surya parkas
P.Mahesh Krishna
N.Sai Siva
P.Purna Chandra Ramarao

B-TECH
III-EEE

Authors

S S Nagendra Kumar
S Koteswara Rao
M Suresh Raju
S Trimurthulu K Sivaji
T Ram Manohar Reddy

B-TECH
III-EEE

Authors

V Surya Nagendra
S.Naga Saikumar
K.Prabhu Kiran
P.Prashanth
V.Sai Sitharam Chowdary

B-TECH
III-EEE

Authors

D.V.Sai Subhanand
V.Akhila
N.Sai Gowtham Reddy
M.Prasanna
G.Vineeth Prakash

B-TECH
III-EEE

Authors

L. Sireesha
V.Surekha
G.L N Venkatesh
M.Harsha Vardhan
P.Mohan Satish

B-TECH
III-EEE

when any fault occurs in a cable, then it is difficult to locate the fault. So we will move to find the exact location of fault along with indication of type of fault. Now the world is become digitalized, so the project is intended to detect the location of fault in digital way. The underground cable system is more common practice followed in many urban areas. While fault occurs for some reason, at that time the repairing process related to that particular cable is difficult due to not knowing the exact location of cable fault. Also the type of fault and the position is indicated by using a GPS system. A message and a voice are sent to the dedicated mobile number using a GSM module. Once the fault is cleared, it displays a message on LCD indicating that the fault is cleared.

**Automatic Power Supply Switching Control System
between Three Different Sources**

The main purpose of this project is to provide continuous power supply to a load, by selecting the supply from any of the four sources namely solar, inverter, mains and generator automatically in case if one the source is absent. The need of electricity is increasing day by day and the frequent power cuts of electricity are causing many problems in different areas like banks, colleges/schools, hospitals, houses and industries. Thus there is requirement for an alternate arrangement of power supply. When a source, say mains fails, the supply automatically shifts to next priority source. On failure of the mains supply the load gets supply from the next available source, say an inverter. If the inverter also fails it switches over to the next available source and so on. As it is not feasible to provide all 3 different sources of supply, one source with alternate switches are provided to get the same function. The project can be further enhanced by using other sources like wind power also and then taking into consideration for using the best possible power whose tariff remains lowest at that moment

**Design and Hardware Implementation of Buck, Boost
Converter and Sine Wave Inverter**

This project deals with the Design and hardware implementation of buck and boost converter and sine wave inverter. A simulation model of the design of buck and boost converter and Sine wave inverter has been developed, and the results have been compared with those of hardware results of this project. The results show the performance of the buck and boost as well as sine wave inverter for industrial and domestic loads. The simulation results have been further aided and confirmed by experimental results



**Staff
Activity**



S.no	Academic Year	Title of the Faculty Development Programme	Name of the Resource Person(s)	Date (s)	No.of Participants
1	2016-2017	Two Day Faculty development on "Soft Computing Techniques and Their Applications to Electrical Engineering	1) Dr.G.Yesuratnam, Professor, Department of Electrical Engineering University College of Engineering Osmania University, Hyderabad. 2) Dr.K.Ravindra Associate Professor of EEE Dept. University college of Engineering, JNTUK, Kakinada 2)Dr.K.Satyanarayana, Professor & HOD-EEE Pragati Engineering College 3) Dr.G.Naresh, Professor of EEE Department Pragati Engineering College.	19.02.2016 & 20.02.2016	52



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)
3	Dr.R.Sathish Kumar	1. Computer Science Teachers Association (CSTA). 2. International Association of Engineers (IAENG)
4	Mr. S.M.Shariff	Member of Indian Society of Technical Education (ISTE)
5	Mrs. P.VijayaPrasuna	Member of International Association of Engineers (IAENG)
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	
12	Mr.M.V.Chandrakumar	
13	Mr.G.Bhavannarayana	
14	Mr.M.Manishankar	
15	Ms.S.Varalakshmi	

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 & Electrical Engineering ,Elsevier Publishers 5.Electric Power Components & Systems Journal ,Taylor and Francis

Faculty achievements

Best project awards of 2016-2017 Academic year under the supervision of Eminent faculty by Tata Consultancy Services, Hyderabad

s.no	Name of the Faculty Guided	Title of the Project
1	Mr.G.Bhavanarayana	IOT and Sensor Based Smart Roads and Intelligent Highways



Faculty publications:

Number of publications for the academic year 2016-17

S.No.	Name of faculty	No.of Publications
1	Dr. K Satyanarayana	04
2	Mrs. P Vijayaprasuna	01
3	Sri S M Shariff	01
4	Mr. I Murali krishana	01
5	Mr. I Srinu	02
6	Mr.S.Ashok Reddy	01
7	Mr.I .Prudhvi Kumar Raju	01
8	Ms.A.Durga Bhavani	01
9	Mr.P.Krishna Chaitanya	01
10	Mrs.K.Geetha	01
11	Mr.M.N.V.V.Brahmam	01
12	Mrs.Ch.V.Pujitha	01
13	Mr.M.Rama Krishna	01
14	Mr.M.V.Chandra Kumar	01
15	Mr.G.Bhavanarayana	01
16	Mr.K.Srinivasu	01
17	Mrs.M.Manga Lakshmi	01
18	Mr.K.Murali Krishna	01
19	Mrs.K.Sandhya Rani	01
Total No. of Papers Published		24

- 1. Dr. K. Satyanarayana & Ms.M. Manga Lakshmi, Mr.I. Srinu**
“Design and Development of Artificial Neural Network Based Temperature Controlling of Injection Mould Machine” Published in International Journal of Scientific & Engineering Research-IJSER, Volume 7, Issue 9, Septmber-2016, ISSN 2229-5518, Page No.899- 904.
- 2. Mr.G. Bhavanarayana, Mr.I. Srinu & Mr.M. Rama Krishna**
“Fuzzy Pi Control Scheme For Off Grid Dc Load Using Wind Power Conversipn System” Published in International Journal of Scientific & Engineering Research-IJSER, Volume 7, Issue 9, Septmber-2016, ISSN 2229-5518, Page No.859-864.
- 3. Mr.K. Srinivasu, Mr.S.M. Shariff & Dr. K. Satyanarayana**
“Staircase Control of Hybrid Multiple Inverter Topology with Reduced Number of Power Electronic Components” Published in International Journal of Scientific & Engineering Research- IJSER, Volume 7, Issue 9, Septmber-2016, ISSN 2229-5518, Page No.865-873.

4. **Mr.M. Veera Chandra Kumar, Dr. K. Satynarayana & Mr.M.N.V.V. Brahmam**
“An AMC Based RZVDPWM Algorithm of Vector Controlled Induction Motor Drive for Better Speed Response with Reduced Acoustical Noise” published at IJEAT, ISSN: 2249-8958(online), Vol-6, Issue-1, page No:22-28, October 2016.
5. **Mr.K. Murali Krishna, Mr.S. Ashok Reddy,**
Mr.K. Siva Shankar — “MPPT for Stand-Alone PV System Under Partially Shaded Condition Using Genetic Algorithm” In International Journal of Engineering and advanced Technology(IJEAT) Volume-6, Issue-1, October 2016, Page No.35-41, ISSN:2249 8958.
6. **Ms. S.Vasanthi, Dr.K.Satyanarayana & Ms. K.Geetha,**
“An Improved Performance of VCIMD with Sliding Mode Controller Based Lookup Table Strategy for The Mitigations of CMV” published in International Journal of Multidisciplinary Research and Modern Education (IJMRME) ISSN (Online): 2454 - 6119 Volume II, Issue II, 2016.
7. **Ms. M. Bhanu Divya Bharathi, Mr. P. Krishna Chaitanya & Mrs.K.Sandhya Rani**
”Power Quality Improvement Of Dfig Using Flc Based Variable Wind Turbines By Ipc Method” published in International Journal of Engineering and Advanced Technology (IJEAT) Volume 6, Issue 2, December-2016, ISSN 2249-8958, Page No:43-49.
8. **Ms.M. Chandini, Mrs.P. V. Prasuna and Mrs.Ch. V. Pujitha**
”Performance analysis of Dual Voltage Source Inverter with enhanced Control Scheme for Grid Connected Applications” published at IJMRME’, ISSN: 2454-6119 (Online), Vol.-II Issue-II, Page No.: 384-396, 2016.
9. **Mr P. Subrahmanyeswara Rao, A. Durga Bhavani & M. Rama Sisir**
” A grid connected pv system integrated Through multilevel modular cascaded H-bridge inverter by using fuzzy logic Controller” published in IJMRME’, ISSN (Online): 2454 - 6119, Vol.-II Issue-II, Page No.: 486-494, 2016.]