"The process of scientific discovery is, in effect, a continual flight from wonder." -Albert Einstein

EEE MAGAZINE 2K18-19



Department of Electrical and Electronics Engineering Velagapudi Ramakrishna Siddhartha Engineering College (Autonomous) Kanuru,Vijayawada, A.P - 520007

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VISION AND MISSION

INSTITUTE VISION

To nurture excellence in various fields of engineering by imparting timeless core values to the learners and to mould the institution into a centre of academic excellence and advanced research.

INSTITUTE MISSION

To impart high quality technical education in order to mould the learners into globally competitive technocrats who are professionally deft, intellectually adept and socially responsible. The institution strives to make the learners inculcate and imbibe pragmatic perception and proactive nature so as to enable them to acquire a vision for exploration and an insight for advanced enquiry.



DEPARTMENT VISION

To impart quality education and strive for centre of excellence in research.

DEPARTMENT MISSION

To prepare future technocrats for a global workplace through excellence in teaching and research. The department endeavours to prepare the students professionally skilful, intellectually proficient and socially responsible

ABOUT THE DEPARTMENT

Velagapudi Ramakrishna Siddhartha Engineering College. established in the year 1977, is the first private Engineering College in the state of Andhra Pradesh. It is a self-financing institution which owes its foundation to and inspired vision of the bold Siddhartha Academy of General and Technical Education, Vijayawada. Established in the year 1977, the EEE department offers two programs, one undergraduate and one graduate. The undergraduate program is the B. Tech. Program in Electrical and Electronics Engineering (EEE) with an intake of 144. The graduate program is the M. Tech. Program in Power Systems



Engineering (PSE) with an intake of 18. The department has thirty-three qualified faculty supported by twelve technical and administrative staff. The faculty composition is four Professors, four Associate Professors and twenty-four Assistant Professors with 10Ph.D's and twenty-two MTech's and one of the Assistant Professor has submitted Ph.D. thesis. The faculty is also committed for research and publishing papers regularly in different areas. The research area comprises Optimal Control Systems, Power System Operation and Control, HVDC Transmission, Electric Drives, Power Quality, Distributed Generation, Gas Insulated Substations, Reduced order modeling, Optimal power flow, FACTS etc. The EEE department having ten laboratories which are well equipped with advance equipment.

The Department is equipped with High Voltage Engineering Lab, AC Network Analyzer and EHV 220kV Transmission Line Simulator in Power Systems Lab first of its kind in any private engineering college in A.P. Also, the department is actively engaged in consultancy work in electrical meter testing and third-party quality assurance for Vijayawada Municipal Corporation electrical works. The technical staff provides assistance to faculty for various laboratories and they provide electrical maintenance for the college campus. Department produces well-disciplined students with high pass percentage and good campus placements. For the last forty-two years, the department has produced highly professional and competitive engineers with greater quality and appropriate skills suitable for a rapidly changing industrial scenario. Our alumni are well established in India as well as abroad.

Under Graduate Program of our department is accredited by National Board of Accreditation (NBA) for a period of 5 years i.e., from 01-07-2015 to 30-06-2020.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Excel in chosen career and/or higher education.

PEO2: Exhibit professionalism, ethical, attitude, communication skills, teamwork and adapt to current trends by engaging in lifelong learning.

PEO3: Demonstrate technical competence in solving engineering problems that are economically feasible and socially acceptable.

PROGRAMME OUTCOMES (POs)

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

PO2: Problem analysis: Identify, formulate, review research literature, and analyse complex engineering Problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

PO3: 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.

PO4: 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.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6: 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.

PO7: 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.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: 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.

PO11: 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 multidisciplinary environments.

PO12. Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1: Understand, analyse and design systems that efficiently generate, transmit, distribute and utilize electric power.

PSO2: To expertise in the technology associated with efficient conversion and control of electrical power to the required form.

HOD'S DESK

I am delighted to learn that our department is bringing out a magazine for the academic year 2018-19. I hope that this would be an ongoing process and the magazine would bring out the latent talent of everyone. Electrical and Electronics Engineering (EEE) department has grown abundantly in the recent past and continues to sustain its growth. People reading this magazine will realize the tremendous changes that are happening in the EEE department. The magazine is presenting a glimpse of the growth of the department on many fronts. The department has been



simply unstoppable in its progress as it has been actively involved in various activities that have brought to enlighten the hidden talents of the students and faculty. The highly qualified and dedicated faculty have always stood shoulder with the management and have carried out their duties with a level of commitment. This magazine has recorded achievements of department by faculty and students in various events. They stand as a witness to the monumental efforts taken by the management to make the department a centre of excellence in education and research. It is my pleasure to congratulate the Management, Principal and the editorial team that has taken the initiative for producing this magazine. I am sure that through the magazine readers will get a bird's eye view of EEE department and its wonders.

> Yours Dr. P.V.R.L. NARASIMHAM Professor & Head

EDITORIAL MESSAGE

It is an occasion of immense pleasure for the Department of Electrical and Electronics Engineering to compile the magazine "ELECTRA 2K19". The name and fame of an institute and department depends on the calibre and achievements of the students and faculty. The role of a faculty is to be a facilitator in nurturing the skills and talents of students. This magazine is a platform to enhance the innovative ideas and technical skills of faculty and students. It also provides opportunity to exhibit the literary and cultural skills of students. This magazine presents all the achievements of students and faculty. The Editorial board would like to place on record our gratitude and heartfelt thanks to all those students and faculty who have contributed to make this effort a success. The Editorial board also wants to thanks the Management of the Institute, Principal and Head of the department for inspiring us to go forward in presenting this magazine. We truly hope that the pages that follow will make an interesting read.

Dr. B. SRINIVASA RAO PROFESSOR CHIEF-EDITOR Dr. J. RAMESH ASSOC. PROFESSOR EDITOR

Mr. P. SOWMITH ASST. PROFESSOR EDITOR

FACULTY DETAILS

S.NO	NAME OF THE EMPLOYEE	DESIGNATION
1.	Dr. P V R L NARASIMHAM	Professor & Head
2.	Dr. M S KRISHNARAYALU	Professor
3.	Dr. A. RAMA DEVI	Professor
4.	Dr. B. SRINIVASA RAO	Professor
5.	Smt S.V.R. LAKSHMI KUMARI	Assoc. Prof.
6.	Dr. G. SRINIVASA RAO	Assoc. Prof.
7.	Dr. B. VENKATESWARA RAO	Assoc. Prof.
8.	Dr. J. RAMESH	Assoc. Prof.
9.	Sri P. VENKATESH	Asst. Prof
10.	Sri N. VAMSIKRISHNA	Asst. Prof
11.	Sri S. N. V. S. K. CHAITANYA	Asst. Prof
12.	Sri T. SUNEEL	Asst. Prof
13.	Smt J. BHAVANI	Asst. Prof
14.	Sri M. L. N. VITAL	Asst. Prof
15.	Sri R. GIRIDHAR BALA KRISHNA	Asst. Prof
16.	Sri P YOGANANDA REDDY	Asst. Prof
17.	Sri K SRIKANTH	Asst. Prof
18.	Sri R MADHU SUDHANA RAO	Asst. Prof
19.	Sri V HARI VAMSI	Asst. Prof
20.	Sri T PURNACHANDRA RAO	Asst. Prof
21.	Sri T AJAYKUMAR	Asst. Prof
22.	Sri Ch S V S PHANI KUMAR	Asst. Prof
23.	Sri S. MANMADHA RAO	Asst. Prof
24.	Sri G. VENKATESWARLU	Asst. Prof
25.	Sri A. VEERA REDDY	Asst. Prof
26.	Dr. P. CHANDRA BABU NAIDU	Asst. Prof
27.	Dr. M. SIVA RAMAKRISHNA	Asst. Prof
28.	Sri. A. HARIPRASAD	Asst. Prof
29.	Dr. ZAMEER AHMAD	Asst. Prof

30. Dr. S. VENU	Asst. Prof
31. Sr. L. Suresh	Asst. Prof
32. Sri. M. Hareesh	Asst. Prof
33. Sri K V RAMANA	M.E



BOARD OF STUDIES(BOS) MEMBERS



Dr. P. V. R. L. Narasimham Department of EEE V.R.S.E.C, Vijayawada Chairman -BOS Committee



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Dr. K. Sivakumar, Assoc. Prof. Dept. of electrical Engineering IIT Hyderabad



Dr. M.P. Selvan, Assoc.Prof. Department of EEE NIT Trichy

Member of BOS



Dr.R. SrinivasRao, Professor Department of EEE JNTUK Member of BOS



M. Mohan Rao Senior Manager

BHEL , R&D Hyderabad

DEPARTMENT ADVISORY BOARD (DAB) MEMBERS

- Dr P.V.R.L. Narasimham, HOD-EEE department and Chairman, Department Advisory Board.
- Dr. G.V. Maruteswar, Professor & HOD-EEE, S V University College of Engineering, Tirupati DAB Member.
- Er. K. BalaKrishna, Executive Manager (R & D), M/S Efftronics Pvt Ltd., Vijayawada, Representative from Industry DAB Member
- Er Raja babu Chief Engineer APTRANSCO representative from Electricity Board DAB Member.
- Er. R. Sreeram, CEO, Eruvaka Technologies Pvt. Ltd, Vijayawada, representative
- from Industry DAB Member.
- Er. K. Rajasekhar, Analog Design Engineer (ASC), Texas Instruments Pvt. Ltd, Bangalore, representative from Industry DAB Member.
- Dr. M. S. K Rayalu, Professor.
- Dr. A. Rama Devi, Professor, UG programme coordinator.
- Dr. B. Srinivasa Rao, Professor, PG coordinator.



MEMORANDUM OF UNDERSTANDING(MOU)

Our department has signed MOUs with the following companies to undertake research and project work with the following companies.

S. No.	Name of the Industry/Institute/ Organization	Date of MOU
1	M/S Energy Efficiency Services Limited (EESL)-New Delhi	28/08/2017
2	M/S Andhra Pradesh State Skill Development Corporation – Siemens-Vijayawada	11/11/2017
3	M/S Power Research & Development Consultants (PRDC)- Bangalore	04/12/2017
4	M/S Kumar Pumps and Motors-Tenali	March 2018
5	M/S Pantech Proed Pvt. Ltd Chennai	05/09/2018
6	M/S G.S. Electricals - Vijayawada	November 2018
7	M/S Microlink Peripherals Controls Pvt. Ltd Vijayawada	November 2018
8	M/S Soltek Photovoltek Pvt. LtdVijayawada	February 2019
9	M/S Imperial Society of Innovative Engineers (ISIE) India	13/05/2019
10	M/S Panda Solar - Vijayawada	August 2019
11	M/S Sarda Metals & Alloys Ltd – Vishakhapatnam	03/09/2019



Signing of MoU with PANTECH

By understanding the strengths and objective, **PANTECH** and Department of Electrical and Electronics Engineering agreed that they can share the expertise available at both ends for mutual benefits in the field of education, training, social development and enter in MoU. Based on the discussion held among the faculty members of department electrical and electronics engineering, **VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE** and **PANTECH** certain thematic areas / programmes has been identified for mutual collaboration.

This is a service level agreement between the two parties for the welfare of both **PANTECH** and faculty Members of department of Electrical and Electronics Engineering, **VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE**.

As part of existing MOUs signed with the department, value added courses on cutting edge technologies were conducted for the welfare of students.



S. No	Name of the Course	Organization / Institute
1	Machine learning using Python	Pantech ProEd
2	Robotics using IOT	Pantech ProEd
3	Electric bike design and development	ISIE

DEPARTMENT LABORATORIES

1. ELECTRICAL MACHINES LAB

Electrical Machines Laboratory is exclusively intended for students of Electrical & Electronics Engineering for conducting various experiments on electrical machines. The total cost of the equipment is around Rs. 40 lakhs. The laboratory is equipped with 37 experimental setups with branded machines which include DC Machines, Transformers, Alternators, Induction Machines, Synchronous Motors, special machines and Synchronizing Panel etc. All the experimental panel boards are established with digital meters of our own make. All machines are set up in the laboratory with the facility of loading up to 125% of full load. The lab facilities are sufficient to conduct experiments as per the syllabus and beyond the syllabus. The lab also provides with necessary protection like insulating mats, fire extinguishers etc. The lab gives the students sufficient practical knowledge and industrial applications of electrical machines. We are in the process of development of multi-function meters of our own make.



2. POWER SYSTEMS LAB

Power systems lab caters the needs of seventh semester B. Tech EEE students as well as M. Tech Power Systems Engineering students. The lab is also used by both UG and PG students for their project works. The laboratory has state of the art equipment for all areas of power system engineering. The laboratory is equipped with all kinds of relay technologies from electromagnetic, static, microprocessor-based relays to the latest numerical relays with SCADA.



The laboratory houses GE make multiline IEDs D60, F650 Numerical relays. ABB REJ-601 relays is available in the lab. Other protection equipment like L&T make 650A Air Break circuit breaker with 1000A source, numerical transformer differential relay is also available. The laboratory has 30km length transmission line model, AC network analyser and six personal computers for power system modelling and analysis. The laboratory also has two numbers of salient pole alternator sets, three phase transformer and tap-changing transformer for fault studies. A programmable 5kW DC source which can be used to simulate solar PV system has been procured for studies on solar PV generation system. The power systems laboratory has adequate facilities for use of both UG and PG students in the field of power system engineering.

3. ELECTRICAL MEASUREMENTS LAB

The electrical measurements lab is one of the basic laboratories offered by the department of electrical and electronics engineering for the EEE students. The laboratory meets the theoretical concepts taught in the Electrical Measurements subject 17EE3402 of VR-17 regulation.



The experimentation is done on AC and DC bridges, energy meters, current transformer and potential transformer. The laboratory also has some major equipment like Power quality analyser (FLUKE 435 series-II), Current Transformer test set, Potential Transformer test set, which are helpful even in research activity.

4. CONTROL SYSTEMS LAB

Control systems and microcontrollers laboratory helps the students in enhancing their knowledge and skills in different concepts of control systems like Modelling control and design of systems. This includes hardware like PID controllers, Synchros, compensators, and DC Generators etc.



The laboratory also houses personal computer and varied range of microcontrollers ranging from 8086 microprocessor, 8051 Microcontroller controllers to the latest Programmable Logic Controllers (S7 200 CN), ARM (LPC214x) controllers, FPGA (Basys3 A7) and advanced DSP controllers (TMS320ezdsp).

5. UG COMPUTER LAB

This Laboratory has been developed to perform simulation of real time machines, control systems on a virtual platform. They can vary any of the parameters and observe, analyse their effect immediately, which is not possible in the real time system. Hence it provides them with better understanding of what they have studied theoretically and performed practically on physical machines/ systems. Computer applications lab provides general computing facilities to students of Electrical & Electronics Engineering.





This laboratory is equipped with 45 desktop computers. The laboratory is fully air conditioned and provides printing and presentation facilities. The students of EEE branch perform programming related to numerical methods such as Bisection Method, Newton-Raphson Method, Gauss-Seidel method, Gauss-Jordan method etc., using the C++ programming language. The computer applications laboratory serves the needs of UG students for carrying out their Simulation Studies/project works/ Research related to Electrical Engineering. The laboratory is equipped with soft computing tools like MATLAB 2014b, MI Power V10.0, PSCAD/EMTDC V4.4, PSIM 6.0, EMTP, Pspice, Orcad Version 9.1, PV Sol 2016.

6. PG COMPUTER LAB

This Lab is exclusively for Post Graduate students for performing simulations of their project works in addition to the simulation lab experiments which are related to the power systems. This laboratory has 18 desktop computers with high configuration DELL I5, 7th GEN, 8 GB DDR IV RAM, 1TB HDD.

The lab is also equipped with a scanner, printer and a server with power back up. All the computers are installed with latest software computing packages like MATLAB, PSCAD, PSPICE, MI-Power 9.1, PSCAD, PVSOL and Power World simulators.



7. POWER ELECTRONICS LAB

Power electronics lab deals with the application of solid-state power semiconductor devices for the control and conversion of electric power. Power electronics have already found an important place in modern technology and are now used in great variety of applications with power levels ranging from watts to mega-watt. Such applications include, heat controls, light controls, motor control, power supplies, vehicle propulsion systems and high voltage direct current (HVDC) systems. State of the art equipment like Three phase IGBT Stack, 24 switch inverter stack, V/F ratio control of Induction motor drive and latest Digital storage oscilloscopes are available in the lab. The Power Electronic lab provides an introduction to Power Electronic circuits and its applications for the control of Power.



8. HIGH VOLTAGE LABORATORY

High Voltage Laboratory is one of the laboratories in Electrical Engineering Department

in V.R Siddhartha Engineering College established under MODROB in year 2000 with a plinth area of (32ft x 22ft). It consists of one HV transformer with 100kV, 10mA continuous, HDVC of 140kV DC and two stage Impulse unit of each 140 kV 280 joules, 100 kV Motorized Test Vessel for Vacuum & Pressure Testing with Corona Cage, 100 kV Enclosed Sphere Gap for Liquid Insulation



Breakdown Test kit and fabricated Oil testing kit of 100kV HVAC. The laboratory caters the needs of both UG and PG students. It has 3 units and one control panel.

9. ELECTRONICS LAB

This laboratory lays the foundation for students on electronic components testing like Diode, Transistor, LED, Photo diode, ICs, colour coding of Resistors and CRO basics. Electronics Lab is divided into two groups: Electronics devices lab & Digital electronics lab. In Electronics devices lab, each individual student solder the components on PCB and conduct the experiment to test the working of analog circuits such as rectifiers with and without filter, transistors in common based and common emitter configuration and characteristics of PN junction diode and Zener diode etc. In Digital electronics lab, students understand the data sheet of different ICs like 74LS08, 74LS32, 74LS04, 74LS00, 74LS02 etc.



The realization of logic gates using universal gates, implementation of Boolean function and verification of flip-flops using logic gates are discussed in digital lab. This lab provides the design of Printed Circuit Boards (PCBs) in software followed by routing and etching process. This makes each individual student to develop their own hardware prototype setups.

INNOVATION AND INCUBATION CENTER

The department has a well-established Innovation and Incubation Centre. The centre is



established during academic year 2015-16 with a foot area 63.06 square meter. Innovative and incubation centre is the place to projects, hardware develop products and to do R&D by the students and faculty. The centre is equipped with all verities of electronics components like. sensors, relays, power supply components. motors etc and proper tools to assemble circuit

components. This centre also equipped with facility to make PCB boards the centre is utilizing by all students and staff to develop hardware projects in the field of Electrical and Electronics Engineering application. The developed hardware projects are exhibiting in this centre for the future reference to demonstrate the students by the staff.

DEPARTMENT LIBRARY

The department library has a stock of 833 volumes with 418 titles of books, has 772

volumes for UG and 61 volumes for PG Standard students. text books and books by authors of repute all fields in are stocked at the department library. The department library has access to National journals, magazines and e-Journals like IEEE, **ELSEVIER** which



have subscription at institution level. The Staff and Students can access NPTEL Video Lessons, Old Question Papers, e-books and e-journals through Intranet service Ph.D. thesis reports of faculty, research papers of faculty available throughout the campus.

GUEST LECTURES, WORKSHOPS CONDUCTED IN THE DEPARTMENT

ENERGY PROBLEMS – CHALLENGES IN SYSTEM INTEGRATION OF DISTRIBUTION GENERATION WITH GRID:

Dr. D. Thukaram, IISC Bangalore gave a guest lecture on "**Energy problems** – **challenges in system integration of distribution generation with grid**" conducted by EEE department on 18th August 2018 as a part of workshop.



SUBSTATION BUS BAR PROTECTION:

Dr. K. N. Dinesh Babu, Sr. Application Manager, Megger Asia Pacific region gave a guest lecture on "**Substation bus bar protection** conducted by electrical department on 21st August 2018 as a part of workshop.



RENEWABLE ENERGY RESOURCES IN POWER SYSTEMS – MICROGRIDS:

Dr.Y. Chandrasekhar, Asst., Prof., NIT Warangal gave a guest lecture on "**Renewable Energy resources in power systems** – **microgrids**" conducted by electrical department on 29th September 2018 for 3rd year students.



POWER FACTOR IMPROVEMENT BY PASSIVE AND ACTIVE COMPENSATION:

Dr. G. Sivakumar, Assistant Professor, Electrical Engineering Dept, NIT Warangal gave a guest lecture on "Power factor improvement by passive and active compensation" conducted by electrical department on 6th October 2018 as a part of workshop



HOLISTIC FACULTY:

Dr. Devabhaktuni Vijay, Professor, Perdue University, USA gave a workshop on "**Holistic faculty**" conducted by EEE department on 15th June 2019 as a part of Faculty development Program.



SEMINARS AND WORKSHOPS

Workshop on PCB Design:

On 11-07-2018 and 12-07-18 workshop was conducted by T. Suneel, R G Bala Krishna, Ch. SVS Phani Kumar, MLN Vital, N Vamsi Krishna, P Yogananda Reddy, R Madhusudhana on PCB DESIGN for 2nd year students.

Workshop on Internet of Things:

On 11-07-2018 Internet of Things workshop was conducted by Bharath Kumar, B.S. Anirudh, K. Shankar from Pantech Solutions Pvt Ltd under Dr. J. Ramesh for 2nd year students.

Workshop on Machine Learning Using Python:

From 28-9-18 to 12-10-18 Machine Learning using Python workshop was conducted by Pantech ProEd Pvt Ltd, Chennai for 2^{nd} and 3^{rd} year students.



Workshop on Energy Audit and Demand Side Management:

On 13-10-18 Energy Audit and Demand Side Management workshop was conducted by T. V. V. Siva Ram Kumar Depty Exec. Eng., NTTPS, APGENCO, Er. Karthikeyan A K, Deputy Manager (Tech), EESL Vijayawada in collaboration with EESL, Vijayawada and IE India Limited for M. Tech students and faculty.



Workshop on Recent Trends in Electrical Engineering:

On 7-15-18 workshop on Recent trends in Electrical Engineering was conducted by Sri. Praksh, SE, Dr NTTPS, Dr. Prashnath Vooka, Asst. Prof., IITAP, Dr. P. Sankar, NIT AP under Margadarshan Scheme of AICTE as a part of Faculty Development Program for faculty from colleges with MOU.



Workshop on Robotics Using IoT:

From 25-01-18 to 28-01-18 Robotics using IOT was conducted by Bharath and Ambu from Pantech Solutions Pvt Ltd under Dr. J. Ramesh for 2nd year students.





Workshop on Electronic Component Testing and PCB Design:

From 23-1-19 to 24-1-19 a workshop on Electronic Component testing and PCB Design was conducted by T. Suneel, MLN Vital, Madhasudhana Rao, Ch SVS Phani Kumar, P Yogananda Reddy, R G Bala Krishna, N Vamsi Krishna and T Purnachandra Rao for 1st year students.

Workshop on Hobby Projects:

From 23-03-19 to 24-03-19 a workshop on Hobby Projects was conducted by T. Suneel, MLN Vital, Madhasudhana Rao, T Purnachandra Rao, A Hari prasad, J Bhavani.

Summer Training Program on Electric Bike Design and Development:

A training program on Electric bike design and development was conducted by Kunal Joshi, Shriram, Ashar from Imperial Society of innovative India under coordination of Dr. S Venu from Electrical department students.



WORKSHOPS ATTENDED BY FACULTY

S. No	Торіс	Organizing Institute	Dates of the Event	Name of the Faculty
1.	Workshop on "Global Competitiveness" Jnanabheri knowledge summit.	A P State Council of Higher Education	20-09-18	Mrs J. Bhavani Mr A. Veera Reddy
2.	NPTEL 8 weeks online course (1- week FDP) on "Introduction to smart grid"	NPTEL- AICTE	Aug – Sept 2018	Mrs J. Bhavani Dr. J Ramesh
3.	NPTEL 4 weeks online course on "Electric Vehicles – Part 1"	NPTEL- AICTE	Feb – March 2019	Dr J Ramesh
4.	NPTEL 8 weeks online course (1- week FDP) on 'Advanced Linear continuous control systems: Application with MATLAB programming and Simulink'	NPTEL- AICTE	Aug – Oct 2018	Mr P. Venkatesh Mr A Veera Reddy
5.	Certificate of training in First Aid and CPR	Dr. PBS Institute of Medical Science & Research foundation	29-11-18	Mr. P. Venkatesh
6.	Two-day national workshop on 'Industrial Practices in Power system Engineering'	EEE Dept, RVR & JC College of Engineering, Guntur	30th Nov -1st dec 2018	Mr P. Venkatesh Mr SNVSK Chaitanya
7.	International workshop on	PRDC Bangalore	18-19th Dec 2018	Mr R Madhusudhana Rao

	"Recent trends in power system"	Radisson's Blue hotel, Palace Road,		Mr S Manmadha Rao
8.	Five-day short-term course on "Power Electronics Applications in power quality, Drives and renewable energy systems" PEAS - 2018	Dept. of Electrical Engineering NIT AP	21st – 25th December 2018	Mrs J Bhavani Mr SNVS Phani Kumar
9.	Workshop on "Curriculum development for six years integrated B. Tech"	SBTET, AP, Vijayawada	19 to 20-12-18	Dr. A Rama Devi
10.	NPTEL online course on" Introduction to smart grid"	NIT Roorkee	Aug – sep 2018	Dr. A Rama Devi
11.	Three-day National level FDP on" Feedback controllers for renewable energy systems in microgrid"	EEE Dept., Bapatla Engineering College, Bapatla	27th -29th Sep 2018	Mr S Manmadha Rao
12.	Training program on "Quality circles and Implementation"	IQAC, VRSEC in association with Quality circle forum of India (QCFI)	22nd Jan 2019	Dr MSK Rayalu Dr A Rama Devi Mrs SVRL Kumari Dr. G. Srinvasa Rao Dr. B Venkateswara Rao
13	Six-day FDP on "Integration of renewable energy sources"	E&ICT Academy, NIT Warangal	3 – 8th June 2019	Dr. Suresh Lakhimsetty Mr. Madhusudhana Rao Ranga
14	Five-day STC on "Advanced power system protection"	Electrical Engineering, IISC, Bangalore	27-31st May 2019	Mr. MLN Vital Mr. SNVSK Chaitanya Mr. R G Balakrishna

15.	Five-day STC on "Microgrid stability control and Protection"	Electrical Engineering, IIT Roorkee	27th to 31st May 2019	Mr. K Srikanth Mr. T Purnachandra Rao
16.	One-week FDP on "Recent trends in power Electronics Applications in Smart Grid, Electric Vehicles and Renewable Energy"	Electronics & ICT Academy, NIT Warangal	17th -22nd June 2019	Mr T Suneel Dr PCB Naidu
17.	A Six-day short term training program on "Advanced trends in renewable sources of Energy"	EEE Dept., PVPSIT	24th to 29th June 2019	Ms. J. Bhavani Mr. SNVS Phani Kumar Mr P Venkatesh Dr. PCB Naidu Dr. J Ramesh
18.	Short term training programme through ICT mode on "NBA Accreditation"	NITTR, Kolkata	17-06-19 to 21- 06-19	Dr J Ramesh Dr B Srinivasa Rao Dr A Rama Devi SVRL Kumari J Bhavani SNVSK Chaitanya

FACULTY PUBLICATIONS

International Journals

- 1. K V Kumar Kavuturu, **PVRL Narasimham**, KNV Sai Tejaswi, "An Evolution of Flexible AC Transmission Systems: A Comprehensive Literature Review", *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 10, No. 9, 2018. (Scopus Indexed).
- 2. T. Nagadurga, PVRL Narasimham & V. S. Vakula (2019) "Harness of maximum solar energy from solar PV strings using particle swarm optimisation technique" International Journal of Ambient Energy, DOI: 10.1080/01430750.2019.1611643 (Scopus Indexed).
- 3. **Kishor Babu Gunti, Sree Krishnarayalu Movva,** "Discrete multi parameter singular perturbation method with power system application" *International Journal of Recent Technology and Engineering (IJRTE)*, (Accepted for publication), (Scopus Indexed)
- 4. Lakshmi Kumari, Uma Vani. Dynamic Voltage Restorer for Sag and Swell Issues in Power System. *Indonesian Journal of Electrical Engineering and Computer Science*. 11. 1243. 10.11591/ijeecs. v11.i, pp: 1243-1250, 2018. (Scopus Indexed).
- Hafsa, B. Venkateswararao, Gummadi Srinivasa Rao, Ch. Ganesh, "Modelling and Implementation of Single-Phase Z-Source Inverter using Arduino" *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, ISSN: 2278-3075, Vol.-8 Issue-2S, December, 2018, pp. 35-40. (Scopus Indexed).
- Kanakapudi Sandhya, P. Venkatesh, Giridhar Balakrishna, "Frequency Regulation in Deregulated Power System integrated with SMES-TCPS Optimized by TLBO", *International Journal of Management, Technology and Engineering*, Vol. IX, Issue IV, pp: 248-255, APRIL/2019.
- P. Venkatesh, K. Sri Kumar, K. Sandhya Rani "Frequency Regulation in Deregulated Power System Integrated with DFIG and SMES Optimized by TLBO" *International Journal of Recent Technology and Engineering*, Vol.-8 Issue-1S3, Pp: 191-199, June 2019. (Scopus Indexed)
- A. Veera reddy, Balasubramanian, Mahesh Kumar, "Conditional Monitoring of Switched Reluctance Motor for Static and Dynamic Eccentricity Faults with Fault Isolation" *International Journal of Mathematical, Engineering and Management Sciences*, Vol. 4, No. 3, Pp: 671–682, 2019. (Scopus Indexed)
- 9. U. M. Rao, H. Pulluri and N. G. Kumar, "Performance analysis of transformer oil/paper insulation with ester and mixed dielectric fluids," *IEEE Transactions on Dielectrics and Electrical Insulation*, vol. 25, no. 5, pp. 1853-1862, Oct. 2018. (SCI Indexed)
- N. Goutham kumar, B. Srinivasarao, B. Venkateswararao, P. V. R. L. Narasimham, "Non dominated sorting-based disruption in oppositional gravitational search algorithm for stochastic multi-objective short-term hydrothermal scheduling," *Soft Computing*, https://doi.org/10.1007/s00500-018-3368-6, (SCIE Indexed)
- 11. M V Rajesh, **B Venkateswara Rao**, "Conference hall automation system using pythonkivy application", *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* ISSN: 2278-3075, Volume-8, Issue-6S4, April 2019. (SCI Indexed)

- 12. P. Chandra Babu Naidu, J. Ramesh, G. V. Nagesh Kumar "Analysis of Hydroelectric Pump Storage for Large-Scale Wind Energy Integration" *International Journal of Smart Grid and Clean Energy*. (Accepted for publication) (SCOPUS Indexed).
- 13. **PARUCHURI CHANDRA BABU NAIDU**, "Optimal Utilization of an Integrated Energy Systems with Renewable Sources Using Interline Power Flow Controller" *Journal of Electrical Engineering & Technology*, Vol. 14, No. 4, pp: 1537-1542, 2019 (**SCI Indexed**).
- 14. Venu Sonti, Sumon Dhara, Piyusha Kukkade, Sachin Jain, and Vivek Agarwal, "Analysis for the Minimization of Leakage and Common Mode Currents in Cascaded Half-Bridge PV Fed Multilevel Inverter", *IEEE Journal of Emerging and Selected Topics in Power Electronics* (accepted for publication) (SCI Indexed).

International Conferences

- 1. L. Uday Kumar, **Rama Devi**, "Power system dynamic state estimation using Kalman Filtering Technique", *International Conference on Inventive Research in Computing Applications (ICIRCA)*, 11th -12th July, 2018 (**IEEE**).
- Mythily G, Kumari SL. "Power Quality Improvement by IUPQC". International Conference on Inventive Research in Computing Applications (ICIRCA) July 11th – 12th, 2018 (IEEE).
- V. L. Phani Bhushan, Dr. Gummadi Srinivasa Rao, V.HariVamsi "Transmission Congestion Management by using LMP Method in De-regulated Electricity Market" *International Conference on Multidisciplinary Perspectives in Engineering & Technology*, Markapur, 24th – 25th May 2019.
- Manikonda Lavanya and Gummadi Srinivasa Rao "Placement and Sizing of Distributed Generation Units for Improvement of Voltage Profile and Congestion Management using Particle Swarm Optimization" *International Conference on Innovative Product Design and Intelligent Manufacturing Systems*, Organized by National Institute of Technology-Rourkela, during 17th - 18th May, 2019.
- Manasvi Kunapareddy, B. Venkateswararao, "HYBRIDIZATION OF PARTICLE SWARM Optimization WITH FIREFLY ALGORITHM FOR MULTI OBJECTIVE OPTIMAL REACTIVE POWER DISPATCH", *International Conference on Innovative Product Design and Intelligent Manufacturing Systems*, Organized by National Institute of Technology-Rourkela, during 17th - 18th May, 2019.
- B. Venkateswara Rao, B. Sateesh, R. Uma Maheswari, G. V. Nagesh Kumar and P.V.S. Sobhan, "Enhancement of Line based voltage stability of energy system with Thyristor Controlled Series Capacitor using Cuckoo Search Algorithm", *International Conference on Innovative Product Design and Intelligent Manufacturing Systems*, Organized by National Institute of Technology-Rourkela, during 17th - 18th May, 2019.
- B. Sravana Kumar, R Uma Maheswari, B. Sateesh, B. Venkateswara Rao and G. V. Nagesh Kumar, "Contingency Management of a Power System using Rapid Contingency Management Technique and Harmony Search Algorithm", *International Conference on Innovative Product Design and Intelligent Manufacturing Systems*, Organized by National Institute of Technology-Rourkela, during 17th - 18th May, 2019.

- M V Rajesh, B Venkateswara Rao, P Sai Vamsi Krishna and S. Pavan Kumar, "Raspberry PI based Digital Assistant for Seminar Halls (D.A.S.H)", *IEEE International Conference* on New Trends in Engineering & Technology (ICNTET)-2018, Organized by GRT Institute of Engineering and Technology, Chennai, during September 7th - 8th 2018 (IEEE).
- K. Kruthi Sai Amulya, B.V. Surya Pavan and J. Ramesh, "Detection of power theft using GSM", *International Conference on Recent Advancements in Engineering and Technology* (*ICRAET-2019*), Siddhartha Institute of Technology & Sciences, Hyderabad, Telangana,15-16th March. 2019, pp. 2. Print ISBN: 978-81-939929-7-5.
- Korabandi Surya, Kumba Praneeth Paul and J. Ramesh, "Wireless power transmission", *Proceedings, International Conference on Recent Advancements in Engineering and Technology (ICRAET-2019)*, Siddhartha Institute of Technology & Sciences, Hyderabad, Telangana,15-16th March. 2019, pp. 4. Print ISBN: 978-81-939929-7-5.
- Tejaswini.K, Saikumar. T and Ramesh J., "Modelling of Energy saving circuit for house hold appliances", *Proceedings, International Conference on Recent Advancements in Engineering and Technology (ICRAET-2019)*, Siddhartha Institute of Technology & Sciences, Hyderabad, Telangana, 15-16th March-2019, pp: 12. Print ISBN: 978-81-939929-7-5.
- 12. Jaya Deepthi B, Ramesh J. and Chandra Babu Naidu P, "Detection of Electricity Theft in the Distribution System using Arduino and GSM", *IEEE sponsored 8th International Conference on Computation of power, Energy, Information and Communication* (*ICCPEIC-2019*), Adhiparasakthi Engineering College Melmaruvathur, Tamilnadu, 27-28th March 2019 (IEEE).
- 13. K. Sandhya Rani, P. Venkatesh, R. Giridhar Bala Krishna, "Frequency Regulation in Deregulated Power System Integrated with DFIG and SMES Optimized by TLBO" *International Conference on Applied Science and Technology*, Organized by Sagi Rama Krishnam Engineering College, Bhimavaram, during 27th & 28th March, 2019.
- 14. N. Vamsi Krishna, Dr. P. Mallikarjuna rao "Model Order Reduction of MIMO System Using Supervised Clustering Algorithm" *International Conference on Innovative Product Design and Intelligent Manufacturing Systems*, Organized by National Institute of Technology-Rourkela, during 17th - 18th May, 2019.
- 15. T Suneel, P Bapaiah, Rambabu M and G Boyina, "Induction motor drive fed with an integrated dynamic voltage restorer for power quality improvement", *International Conference on Electrical, Communications, Instrumentation and computing*, organized by Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kanchipuram, Tamil Nadu 30th & 31st Jan-2019 (IEEE).
- 16. J Bhavani and S V S Phani Kumar Ch., "Finite Element Modeling of Voltage and Electric Field Distribution along the Insulators" 4th International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT-2019), MAY 17th & 18th 2019 (IEEE).
- 17. M. L. N. Vital, V. Hari Vamsi, T. Purnachandra Rao and K. Srikanth "HUMAN GUIDED FOLLOWING TROLLEY MECHANISM AND INTEGRATED SHOPPING MECHANISM USING RFID" *International Conference on Innovative Product Design and Intelligent Manufacturing Systems*, Organized by National Institute of Technology-Rourkela, during 17th - 18th May, 2019.

- 18. P. Sowmith, R. Madhusudhanrao, N. Gouthamkumar "Optimal Scheduling of Hydro Thermal Plant Using Particle Swarm Optimization" *International Conference on Innovative Product Design and Intelligent Manufacturing Systems*, Organized by National Institute of Technology-Rourkela, during 17th - 18th May, 2019.
- 19. Purnachandra Rao Thota, Srikanth Khandavalli, MLN Vital and V Hari Vamsi "Optimal allocation of solar DGs in Distribution Network" *International Conference on Innovative Product Design and Intelligent Manufacturing Systems*, Organized by National Institute of Technology-Rourkela, during 17th - 18th May, 2019.
- 20. S Manmadha Rao, S V S Phani Kumar Ch, B Venkateswara rao, S N V S K Chaitanya "Power Quality Enhancement Using Photovoltaic Based Dynamic Voltage Restorer", *International Conference on Innovative Product Design and Intelligent Manufacturing Systems*, Organized by National Institute of Technology-Rourkela, during 17th & 18th May, 2019.
- 21. S Manmadharao, S N V S K Chaitanya, B. Venkateswararao and G. Srinivasarao, "Design and Optimization of Grid Integrated Solar Energy System Using HOMER GRID software", 2nd IEEE International Conference on Innovations in Power and Advanced Computing Technologies (i-PACT 2019), Organized by VIT University, Vellore, during 22nd – 23rd March 2019 (IEEE)
- 22. A. Veera Reddy, B. Mahesh Kumar, "Electromagnetic Field Analysis of Switched Reluctance Motor under Different Conditions using Finite Element Method" 2nd IEEE International Conference on Innovations in Power and Advanced Computing Technologies, [i-PACT-2019], Organised by VIT University, Vellore, Tamila Nadu, 22-23 March, 2019 (IEEE).
- 23. P. Chandra Babu Naidu, J. Ramesh, G. V. Nagesh Kumar "Analysis of Hydroelectric Pump Storage for Large-Scale Wind Energy Integration" 2nd International Conference on Smart Grid and Energy, Organised by NTU, Singapore, 27-30 April, 2019.
- 24. **Z. Ahmad,** PVRL Narasimham, Aswini, "An improved transformerless inverter topology for grid connected photovoltaic system", *ICCSW, IEEE international conference*, 14th Dec-2018 (**IEEE**).

National Conferences

 S N V S K Chaitanya, B.Venkateswara Rao, R. Ashok Bakkiyaraj and G Srinivasa Rao, "Weakest line exploration using FVSI for optimal placement of TCSC to enhance energy flow using MiPower software" *National Conference on Nature Inspired Computing Applied to Electrical Engineering*, Oct 6-7, 2018, organized by Department of Electrical Engineering, FEAT, Annamalai University, Annamalai nagar, Tamilnadu.

Book Chapters

- 1. **Rao G S**, Obulesh Y P, Rao B V. "Enrichment of Distribution System Stability through Artificial Bee Colony Algorithm and Artificial Neural Network", In Hand book of Research on Smart Power System Operation and Control 2019 (pp. 35-55), IGI Global.
- 2. Kumar G.V.N., Kumar B.S., **Rao B V**., Chowdary D.D. Enhancement of Voltage Stability Using FACTS Devices in Electrical Transmission System with Optimal Rescheduling of Generators by Brain Storm Optimization Algorithm. In: Cheng S., Shi Y. (eds) Brain Storm

Optimization Algorithms. Adaptation, Learning, and Optimization, June 2019, Vol. 23, pp 273-297. Springer Nature (**Scopus Indexed**).

- Battula Raveena, B Venkateswara Rao Chapter 1: "A Comprehensive Survey on Modeling and Optimization of Hybrid Renewable Energy Sources in Power System", in Grid Management in a Multiple Energy Resources Scenario, February, 2019, pp. 9-15, ISBN: 978-81-939709-4-2, Publisher: Annual Technical Volume of Electrical Engineering Division Board, the Institution of Engineers (India).
- Nadakuditi G., Mohan Rao U., Bathina V., Pandi S. "Economic Load Dispatch in Microgrids Using Real-Coded Genetic Algorithm." In: Soft Computing in Data Analytics Advances in Intelligent Systems and Computing book series, vol 758. Springer, Singapore, pp 377-386, 22 August 2018 (Scopus Indexed), Online ISBN 978-981-13-0514-6, DOI: https://doi.org/10.1007/978-981-13-0514-6_38.

Books

- S V S Phani Kumar, T. Vinay Kumar, J. Bhavani "LVRT and Stability Analysis of WGS Integrated to Microgrid". ISBN10 6139887607, ISBN13 9786139887606, Aug-2018.
- J. Bhavani, N. Saida Naik, Ch, S V S Phani "Grid and Islanded Operation of A DG Inverters in Microgrid", Aug-2018.
- <u>Srikanth Khandavalli, Chamundeswari Doddka, Purnachandra Rao Thota</u> "Zonal Protection of Transmission Line Model", LAP Lambert Academic Publishing, 2018.
- Hari Vamsi Valluru, L N Vital Muktevi "Automation of Home Appliances using PLC and SCADA", LAP Lambert Academic Publishing, 2019. ISBN: 978-620-0-08218-3.
- Tummapudi Suneel, P. Venkatesh, Ch. Pavani "Rotational Load Shedding using PLC and SCADA", LAP Lambert Academic Publishing, 2019. ISBN: 978-620-0-24048-4.

FACULTY INTERACTION WITH OUTSIDE WORLD

• Dr B. Srinivasa Rao attended as a resource person for internal training program at APHRDI, Bapatla Topics delivered: "Ways & Types of Leadership for effective administration" organized by APHRDI, Bapatla on 18 Dec 2018.

FACULTY ONLINE COURSES

S. NO	NAME	TITLE OF THE COURSE	PLATFORM
1.	Dr. A. RAMA DEVI	Introduction to Smart Grid	NPTEL
2.	Dr. B. SRINIVASA RAO	Control Systems	NPTEL
3.	Dr. G. SRINIVASA RAO	Recent Advances in Transmission Lines	NPTEL
4.	Dr. B. VENKATESWARA RAO	Recent Advances in Transmission Insulators	NPTEL
5.	Dr. J. RAMESH	 1)Introduction to Smart Grid 2) Electric Vehicles Part-1 	NPTEL
6.	S.V.R. LAKSHMI KUMARI	Power System Analysis	NPTEL
7.	P. VENKATESH	Advanced Linear Continuous Control System	NPTEL
8.	J. BHAVANI	Introduction to Smart Grid	NPTEL
9.	M. L. N. VITAL	Power System Analysis	NPTEL
10.	R. GIRIDHAR BALA KRISHNA	Discrete Time Signal Processing	NPTEL
11.	R. MADHUSUDHANA RAO	Power System Analysis	NPTEL
12.	Dr. A. VEERA REDDY	Advanced Linear Continuous Control System	NPTEL

RESULT ANALYSIS

S. No	SEMESTER	PASS PERCENTAGE
1.	First Semester	80.67
2.	Second Semester	73.55
3.	Third Semester	63.70
4.	Fourth Semester	78.63
5.	Fifth Semester	74.81
6.	Sixth Semester	77.78
7.	Seventh Semester	89.86
8.	Eighth Semester	97.83

Best out Going Student:

K. Sai Manga Reddy (158W1A0218)

CGPA=9.18



TRAINING & PLACEMENTS

The objective of Training & Placement cell is to equip students with globally employable skills through training and help them attain their desired employment and career goals. The function of the Training & Placement cell is to be the mentor of students to frame their careers, build and develop relevant competencies among students for placements. Through this training they make them 'Industry ready' to enable placements for all students.



PLACEMENT DETAILS			
S. NO	NAME OF THE COMPANY	NO OF STUDENTS SELECTED	PAY PACKAGE
1.	VALUE LABS	1	6LPA
2.	JSW CEMENTS	1	5.35LPA
3.	GGK Technologies	1	4LPA
4.	HFFC	1	4LPA
5.	SOCTRONICS	1	4LPA
6.	ERUVAKA TECHNOLOGIES PVT. LTD.	1	4LPA
7.	TCS NINJA	15	3.6LPA
8.	IBM	1	3.6LPA
9.	CAPGEMINI	13	3.5LPA
10.	WIPRO	2	3.5LPA
11.	COGNIZANT	2	3.5LPA
12.	TCS	2	3.36 LPA
13.	HYUNDAI MOBIS	2	3.25LPA
14.	CYIENT	2	3.25LPA
15.	Tech Mahindra	1	3.25LPA
16.	INFOSYS (OFF CAMPUS)	1	3 LPA
17.	VEE TECHNOLOGIES	5	2.5LPA
18.	GREFIO	6	2.5LPA
19.	REDDINGTON GULF	1	2.5LPA
20.	BILLION TAGS	3	2.5LPA
21.	NET ACCESS	2	2.5LPA
22.	MANAC INFOTECH	5	2.4LPA
23.	IIHT	8	2.4LPA
24.	Q SPIDERS	3	2.4LPA
25.	PATH FRONT	1	2.4 LPA
26.	TVS RAMSAYS	3	2.2LPA
27.	TEXMO	1	1.8LPA
28.	PADS SERVICES PVT. LTD.	4	1.8LPA
29.	SABARI ELECTRICAL	3	1.5LPA
I	TOTAL	92	

STUDENT ONLINE COURSES

REG.NO	NAME	COURSE TITLE
158W1A0272	G.R.M.T. Nageswara Sarma	Stress Management
158W1A0272	G.R.M.T. Nageswara Sarma	Introduction to Internet of Things
158W1A0272	G.R.M.T. Nageswara Sarma	Advances in UHV Transmission and Distribution
168W1A0220	K. Surya Naga Ratna Manikanta	English Language for Competitive Exams
168W1A0227	K.Sai Lakshmi Harshitha	Digital Circuits
168W1A0267	D.Likhitha	Control Engineering
168W1A0271	E. Satya Sandeep	Control Engineering
168W1A0272	Sowmya Mithra	Introduction to Modern Indian Political Thought
168W1A0284	M.Nuthan Kishore	Control Systems
168W1A0287	M.Adinarayana	Control Systems
168W1A0297	P.Sai Meenakshi 🔪 Alekhya	Control Engineering
168W1A02A0	N. Pujitha	Ecology and Environment
168W1A02A5	S. Karthik	Control Engineering
168W1A02A6	T.Sai Eswar Akhil Kumar	Control Engineering
188W1A0208	Ch. Pravallika	Problem Solving Through Programming In C
188W1A0245	R. Vara Prasad	Speaking Effectively
188W1A0257	V.Sriya	Problem Solving Through Programming In C
188W1A0273	D.Anusha	Problem Solving Through Programming In C
188W1A0276	G. Chaitanya	Machine Learning, Ml
188W1A0277	G. Vimal Sharon	Enhancing Soft Skills and Personality

STUDENTS ACHIEVEMENTS

International Event

Nalluri Pujitha (168W1A02A0) attended, University Innovation Fellowship on 24th April 2019 at **Stanford University**, United Arab Emirates (DUBAI) on 24th to 29th of April 2019.



Department Sports Activities

Student Participations in Co-curricular & Extracurricular Activities in Intra Institute

S.No	Name	Activity	Achievement	Reg.No	Class
1	K. V. Sai Anudeep	Annual Day Sports (Cricket Tournament)	First Prize	18W1A0222	3 rd
2	N. Nidhi	Annual Day Drawing	First Prize	188W1A0237	2 nd
3	K. Bharathi	Bhagvad Gita Recitation	First Prize	178W1A0230	3 rd

S.No	Name	Date	Achievement	Organizing College	Activity
1	T. Naga Siri	4 th , sep,2018	First Prize	Montissory degree college, Vijayawada	Modern dance
2	G. Naga Anandini	4 th , sep,2018	First Prize	Vijayawada	Kuchipudi
3	G. Naga Anandini	12 th , Dec,2018	Frist Prize	Vijayawada	Kuchipudi
4	T. Naga Siri	28 th , dec,2018	First Prize	Siddhartha mahila kalasala, Vijayawada	Modern dance

Student Participations in Co-curricular & Extracurricular Activities in Inter institutes

NSS (2018-2019)

Total No. of Volunteers: 17

Name of the Event: Unnat Bharath Abhiyan 2.0

No. of Volunteers: 180

Location: Kanuru

Name of the Event: Unnat Bharath Abhiyan

No. of Volunteers: 150

Location: Cholavaram





Name of the Event: Voters Awareness Drive

No. of Volunteers: 500



Name of the Event: Blood Donation & Grouping Camp

No. of Volunteers: 350





కానూరు (పెనమలూరు రూరల్). ఆక్టోబరు 5 : వీఆర్ సిద్దార్థ కళాశాలకు మంది 60 ఎన్ఎస్ఎస్ చెందిన వలంటీర్తు శుత్రవారం రక్షదానం చేశారు. రెడ్డాస్ సొసైటీ ఆధ్వర్యంలో మరస 58000 ఇండోర్ 200 స్టేడియంలో నిర్వహించిన రక్షదాన **ඉඩරං**ඒ అందించారు. ರಕ್ಷಾನ್ನಿ కార్యకమంలో ఎన్ఎస్ఎస్ కోఆర్షినేటర్ కొల్లా నరేంద్ర, అధ్యాపకులు యు.వి. నారాయణ తదితరులు పాల్గొన్నారు.

STUDENTS QUALIFIED FOR HIGHER STUDIES

GATE-2018

S. No	Roll No.	Name	Gate Marks	Rank	Batch
1	148W1A02B0	Tammireddy Divya	43	6212	2014-18
2	148W1A0251	Talachutla Syam Sundar	41.33	7031	2014-18
3	148W1A02B7	Vennelakanti Venkata Bhargava Narendra	35.87	9000	2014-18
4	148W1A0235	Nori Sesha Sai Bhaskar	37	9401	2014-18
5	148W1A02A4	P. Vamsi Kumar	35	11000	2014-18
6	148W1A0202	Bapathi Anil Kumar	35	11070	2014-18
7	148W1A02B9	Yarlagadda Mrudula	32	13555	2014-18
8	148W1A02A2	Patibandla Dasaradh	31	14206	2014-18
9	148W1A0238	Pittu Hanush	30.33	15268	2014-18
10	158W5A0213	Bondalapati Srikanth	29.7	15981	2014-18
11	148W1A0290	Chambodhi Vijay Vardhan	19.7	33606	2014-18
12	148W1A0275	Gopathoti Sireesha	19.2	34000	2014-18

GRE:

S. No	Roll No.	Name
1	2754476	Susma Manne
2	1751214	Yaswanth Vijay Babu Isukapalli

IELTS:

S. No	Roll No.	Name	
1	246448	M.Bhuvaneswari	
2	246433	Atluri Raghu Ram	
3	311598	Vanukuru Sai Surya Balaji	
5	242846	Nadella Sai Saran	
6	293720	M.Sushma	
7	294097	G.M.R. Priyanka	

INNOVATION DAY

Engineering is not merely knowing and being knowledgeable; engineering is not merely analysis; engineering is not merely the possession of the capacity to get elegant solutions to non-existent engineering problems; engineering is practicing the art of the organized forcing of technological change.

The department of Electrical and Electronics Engineering has taken initiative to bring out the hard efforts of engineering students and to bring their ideas from mind to solve some environmental, security and technical problems etc of society. More than students showed their participation in the event the faculty and students put up lot of efforts to develop approximate 20 hardware projects developed and exhibited in different fields areas of electrical and electronics engineering on innovation day 2018. To encourage the student's college awarded the cash prize for top three projects.

S.NO	NAME	ROLL.NO	PROJECT TITLE
1	Mounika.G	178W1A0274	Mini Destaurant
	Haritha.Ch	178W1A0270	Mini Restaurant
2	B. Jahnavi	178W1A0265	
	P. Deepthi	178W1A0298	Automatic Cooler Control
	M.Sushma	178W1A0289	
3	B. Rishitha	178W1A0268	Burgan Alarm For Jawallary Shan
	B. Lathanjali	178W1A0269	Buzzer Alarm For Jewenery Shop
4	D.Satya Priya	168W1A0270	Automatic Street Lighting
5	Sk. Tasleem	178W1A02A8	
	S. Rishitha	178W1A02B2	Vehicle Over Speed Protection
	K. Sravani	178W1A0287	
6	E. Tanuja	178W1A0273	
	P. Datri Sri	178W1A0297	Water Resouce Management For
	K. Lavanya	178W1A0284	
7	S. Tanuja	178W1A02B1	Independent Fire Protection
	S.Sai Manasa	178W1A02A3	With Automatic Water Discharge
	V.Pravallika	178W1A02B4	System
8	Sk Shahanaz	178W1A02A6	
	S. Sushma	178W1A02B0	Immersion Water Heater Protection System
	P. Anu Jahnavi	178W1A0299	

List of Projects Developed for Innovation Day-15th September 2018

B.V. Pavan Kumar	178W5A0215	Obstacle Avaiding Robet	
U. Saketh	168W1A02B1	Obstacle Avolding Robot	
P. Rupa Devi	178W5A0222	Hand Gastura Controllad Vahiala	
B. Mounika	168W1A0264	Hand Gesture Controlled Venicle	
Y. Bindu Priyanka	178W5A0224		
S. Pavithra	178W5A0223	Digital Wattmeter	
D.Naga Sravanthi	178W5A0201		
R. Revathi	168W1A02A4		
K. Usha Sree	168W1A0282	Hidden Active Cell Phone Detector	
P. Prasanna	168W1A0296		
K V V R S Vishnu	188W5A0217	Harandana Cas Datastar	
K Lakshmi Sai	178W1A0279	Hazardous Gas Detector	
T. Viswanath	178W1A02B3		
T. Thirumala Rao	188W5A0224	Diver's Helper	
M. Ravi	188W5A0220		
V Jeswanth	188W5A0226		
Sks Jilani Basha	188W5A0223	Automatic Traffic Lights Timer Control	
Nagaraju	178W1A0203		
K. Varma	178W1A0224		
K. Praneeth Sai Kumar	178W1A0233	- Balancing Bot	
K. Harish	178W1A0231		
Y Krishna Chaitanya	178W1A0259		
D Hemanth Raj	178W1A0209	Digitilization Of Plind Man Hauss	
K Siva Sai	178W1A0228	Digitinisation Of Blind Men House	
Yagna Hari Muni	158W1A0295		
Durga Prasad	168W5A0216		
M. Akshith	158W1A0292	Smart Troney	
P. Harish	158W1A02A2		
V Vijay	178W1A0257		
S Phani	178W1A0253	Accident Detect Alert System	
Sk Abdul	178W1A0250		
M.Manjula	188W5A0221	Air Conditioner Power Saver	
	B.V. Pavan KumarU. SakethP. Rupa DeviB. MounikaY. Bindu PriyankaS. PavithraD.Naga SravanthiR. RevathiK. Usha SreeP. PrasannaK V V R S VishnuK Lakshmi SaiT. ViswanathT. Thirumala RaoM. RaviV JeswanthSks Jilani BashaNagarajuK. VarmaK. Praneeth SaiKumarK. HarishY KrishnaChaitanyaD Hemanth RajK Siva SaiYagna Hari MuniDurga PrasadM. AkshithP. HarishV VijayS PhaniSk AbdulM.Manjula	B.V. Pavan Kumar 178W5A0215 U. Saketh 168W1A02B1 P. Rupa Devi 178W5A0222 B. Mounika 168W1A0264 Y. Bindu Priyanka 178W5A0223 D.Naga Sravanthi 178W5A0201 R. Revathi 168W1A02A4 K. Usha Sree 168W1A0282 P. Prasanna 168W1A0282 P. Prasanna 168W1A0296 K V V R S Vishnu 188W5A0217 K Lakshmi Sai 178W1A0279 T. Viswanath 178W1A0279 T. Viswanath 178W1A0223 V Jeswanth 188W5A0226 Sks Jilani Basha 188W5A0226 Sks Jilani Basha 188W5A0223 Nagaraju 178W1A0203 K. Varma 178W1A0231 Y Krishna 178W1A0231 Y Krishna 178W1A0231 Y Krishna 178W1A0259 Chaitanya 178W1A0292 D Hemanth Raj 178W1A0292 Y Agna Hari Muni 158W1A0292 P. Harish 158W1A0292 P. Harish <	

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	V.Priyanka	188W5A0225		
	K. Tanusha	188W5A0219		
21	S. Karthik	16W1A02A5	Hame Automotion	
	K. Harsha	168W1A0224	Home Automation	
22	D. Rajasekhar	178W5A0216	Phase Failure Protection For 3 Phase	
	M. Harish	178W5A0220	Loads	
23	J Jeevani	158W1A0276		
	K Swetha	158W1A0280	Bluetooth Controlled Event Inaugural	
	J Sunayana	158W1A0277	Kit	
	Khasim Afrid	158W1A02A6		
24	M.V. Rajesh	148W1A0232	Seminar Hall Automation	

List of Prize Winners for Project Models

S.NO	NAME	ROLL.NO	PROJECT TITLE
1.	M.V. Rajesh	148W1A0232	Seminar Hall Automation (First Prize)
2.	S. Phani 178W1A0253		
	V.Vijay	178W1A0257	Accident Detect Alert System (Second Prize)
	Sk Abdul	178W1A0250	
	Y. Bindu Priyanka	178W5A0224	
3.	S. Pavithra	178W5A0223	Digital Wattmeter (Third Prize)
	D.Naga Sravanthi	178W5A0201	





Accident Alert System

Buzzer Alarm for Jewelry Shop



Mini Restaurant

Automation Cooler Control



BEST PROJECTS

Students Register Number	Project Title	Ranking
168W5A0201	Automatic Scheduling of Generators and Load Shedding Based on Voltage and Frequency with Integration of Compensation Devices	Ι
168W5A0204 168W5A0207 158W1A0252 158W1A0224	Thermal Power Plant Modeling Using SCADA and PLC	II
158W1A0218 158W1A0247 158W1A0225 168W5A0211	A Multi-Level Inverter used for Mitigation of Leakage Currents in PV System	III



INDUSTRIAL VISITS

Industrial visit is an opportunity for the students to gain first-hand knowledge on the functioning of the industries and to get the feel of an industrial setup. Also, it is a chance to interact with the experienced people and observe the practical applications of what is theoretically learnt. The students were exposed to many industries in electrical core this year. Many experts in the fields explained about the processes going on in the industries. Eminent substation 220kV Nunna substation, Motor manufacturing company Kumar Pumps and Motors, Electric train maintenance Loco shed in Vijayawada, Thermal Power plant VTPS and Polavaram Project were the places where students were taken to. A detailed knowledge about the industries were imparted to the students. The department organized visits to the following organizations.





POLAVARAM PROJECT





220 kV NUNNA SUBSTATION



RENEWABLE ENERGY SOURCE

In our college 400kWp Solar roof top power plant installed in the Mechanical Engineering department and S&H department blocks to meet the load demand. In this project Net metering system is provided to export the excess solar power to the grid. In this manner we are initiating green energy in the campus.



ME Department 100kWp Solar panels



ME Department Inverter



S&H Block 50kWp Solar Panels

ALUMINI MEET

Alumni meet is an event celebrated in this institute every year so as to give our alumni an opportunity to renew bonds with past classmates and cherish their relationship with faculties and staff members. The alumni association creates and keeps alumni interest in their Education guild and develops interest to contribute to their Alma matter. Alumni Meeting, a networking event conceived to exchange experiences and to share ideas with current students, faculties and staff. These are the following alumni working in prominent organizations.

r						
S.NO	ROLL NO.	NAME OF ALUMNI	ORGANIZATION	PRESENT POSITION	CONTACT NO.	EMAIL ID
1	89EE02	Ananda Babu.M	TSTRANSCO	ADE	9493123 142	anandmanda10@ gmail.com
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3	89EE43	G. Srinivasa Rao	APTRANSCO	ADE	9533262 728	Gsvja71@gmail. com
4	89EE44	V. Srinivasa Rao	CISCO	Program manager	44- 75346- 1619	svaddavalli@yah oo.com
5	89EE46	M. Amruth Subhakar	TSTRANSCO	ADE	9866647 834	subhakarmekala @gmail.com
6	89EE50	M. Uma Vani	LBRCE	Professor &HOD, EEE	8339057 90	Marreddy.umava ni@gmail.com

ART GALLERY



Art by Sivasai (178W1A0228)





Art by Naga Anandini (178W1A0215)

Art by Phani Srikantam (178W1A0253)

EVENT PHOTOS







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