

EEE MAGAZINE

Created
Energy
cannot be
Destroyed

2019-20

No Resistance
can drop our
Potential



Department of Electrical and Electronics Engineering
Vijaya Vittala Technological Institute, Engineering College
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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 work place through excellence in teaching and research. The department endeavours to prepare the students professionally skilful, intellectually proficient and socially responsible

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING








EEE department established in the year 1977. At present, the 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-two Assistant Professors with 14 Ph.D's and fifteen M.Tech'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.

Under Graduate (UG) 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.



BOS MEMBERS

		
Dr. P. V. R. L. Narasimham, HOD, Dept. of EEE V.R.S.E.C, Vijayawada, Chairman – BOS Committee	Dr. D. V. S. S. Siva Sarma, Professor, Dept. of EEE, NIT Warangal, JNTUK Representative – Member of BOS	Dr. D. Suryanarayana, Professor, Dept. of Energy systems, IIT Bombay Alumni – Member of BOS
		
Dr. K. Siva Kumar, Assoc. Prof., Dept. of EEE, IIT Hyderabad, Academician – Member of BOS	Dr. M. P. Selvan, Assoc. Prof., Dept. of EEE, NIT Trichy, Member of BOS	Dr. J. S. Siva Prasad, Senior Scientist, ABB, GISPL, Chennai, Industry Representative, Member of BOS

- **Mr. Vishnu Vardhan** and **Mr. Tirumula Rao** – student members to BOS committee
- All the **Faculty of EEE department** – members of BOS committee

DAB MEMBERS

1. **Dr. G.V. Maruteswar,** Professor & HOD-EEE, S V University College of Engineering, Tirupati – DAB Member
2. **Er. K. BalaKrishna,** Executive Manager (R & D), M/S Efftronics Pvt Ltd., Vijayawada, Representative from Industry – DAB Member
3. **Er. Raja babu** Chief Engineer APTRANSCO representative from Electricity Board – DAB Member
4. **Er. R. Sreeram,** CEO, Eruvaka Technologies Pvt. Ltd, Vijayawada, representative from Industry – DAB Member
5. **Er. K. Rajasekhar,** Analog Design Engineer (ASC), Texas Instruments Pvt. Ltd, Bangalore, representative from Industry – DAB Member
6. **Er. M.R.V. Rajesh,** Senior Manager (Electrical), RAIN CII Carbon Company, Visakhapatnam, representative from Industry – DAB Member
7. **Dr. P. Roshan Kumar,** Subject expert in Power Train, Microfuzzy, Germany, representative from Industry – DAB Member
8. **Dr P.V.R.L. Narasimham,** HOD-EEE department and Chairman, Department Advisory Board and **All the Faculty members of EEE department**



Electrical Engineering is a versatile and evergreen branch of engineering. Our department has well qualified and dedicated faculty with state of art laboratories. We impart quality education through theoretical knowledge, hands on experience as well as computational skills. The students and faculty members are exposure to recent technologies by visiting industries and expert talks. The pandemic COVID-19 has affected all levels of the education system. However, the department conducted online classes effectively to overcome this situation. Also, many students and faculty are successfully completed online courses such as Coursera, NPTEL and Great learning etc. We provide opportunities for students to participate in various technical, cultural and sports events.

We introduced effective Choice-Based Credit System (CBCS), in which more flexibility is given to students for carryout full time industry-based projects. We are offering more elective courses for students to carryout projects and product development to address societal issues. The infrastructure and lab facilities are upgraded from time to time and provide a good practical learning and innovative environment for the students and researchers. Many faculty members published their research outcome in quality journals such as IEEE Transactions, SCI and SCOPUS indexed Journals. The department enriched with all kind of simulation software packages for in-depth training of the students.

I hope this Magazine will serve the purpose of exhibiting the strength and innovative ideas of department.

LABORATORIES

ELECTRICAL MACHINES



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, like 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 also provides with necessary protection like insulating mats, fire extinguishers etc.

POWER SYSTEMS



Power Systems Lab caters the needs of 7th semester B.Tech EEE students as well as M.Tech students. The lab is equipped with all kinds of relay technologies from electromagnetic, static, microprocessor-based relays to the latest numerical relays with SCADA. The lab houses GE make multilin IEDs D60, F650 Numerical relays. Three phase fault simulation and relay coordination kit with Micom P441 relay and ABB REJ-601 relays is available in the lab. Other protection equipment like L&T make 650A Air Circuit Breaker (ACB) with 1000A source, numerical transformer differential relay is also available. The lab has 30km length transmission line model, AC network analyzer and six personal computers for power system modeling and analysis. A programmable 5kW DC source which can be used to simulate solar PV system has been procured for studies on solar PV generation system.

ELECTRICAL MEASUREMENTS



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 analyzer (FLUKE 435 series-II), Current Transformer test set, Potential Transformer test set, Mixed domain Oscilloscope (MDO3034) etc., which are helpful for research activity also.

CONTROL SYSTEMS & MICROCONTROLLER



Control Systems and Microcontrollers Lab helps the students in enhancing their knowledge and skills in different concepts of control systems like Modeling 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). The students get hands on experience of interfacing various I/O modules, peripherals to microcontrollers and applications like traffic signal control and elevator control systems. Instead of procuring readymade kits the department developed customized interfacing boards for experimentation which helps them in implementing projects.

UG COMPUTER CENTER



UG Computer 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, analyze 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-Siedel method, Gauss-Jordan method etc., using the C++ programming language.

PG COMPUTER CENTER



PG Computer Laboratory 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 software's.

HIGH VOLTAGE



High Voltage Lab is one of the laboratories in Electrical Engineering Department in V.R Siddhartha Engg. 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 lab caters the needs of both UG and

ELECTRONICS LAB



Electronics Lab lays the foundation for students on electronic components testing like Diode, Transistor, LED, Photo diode, ICs, color 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.

INNOVATIVE AND INCUBATION CENTER



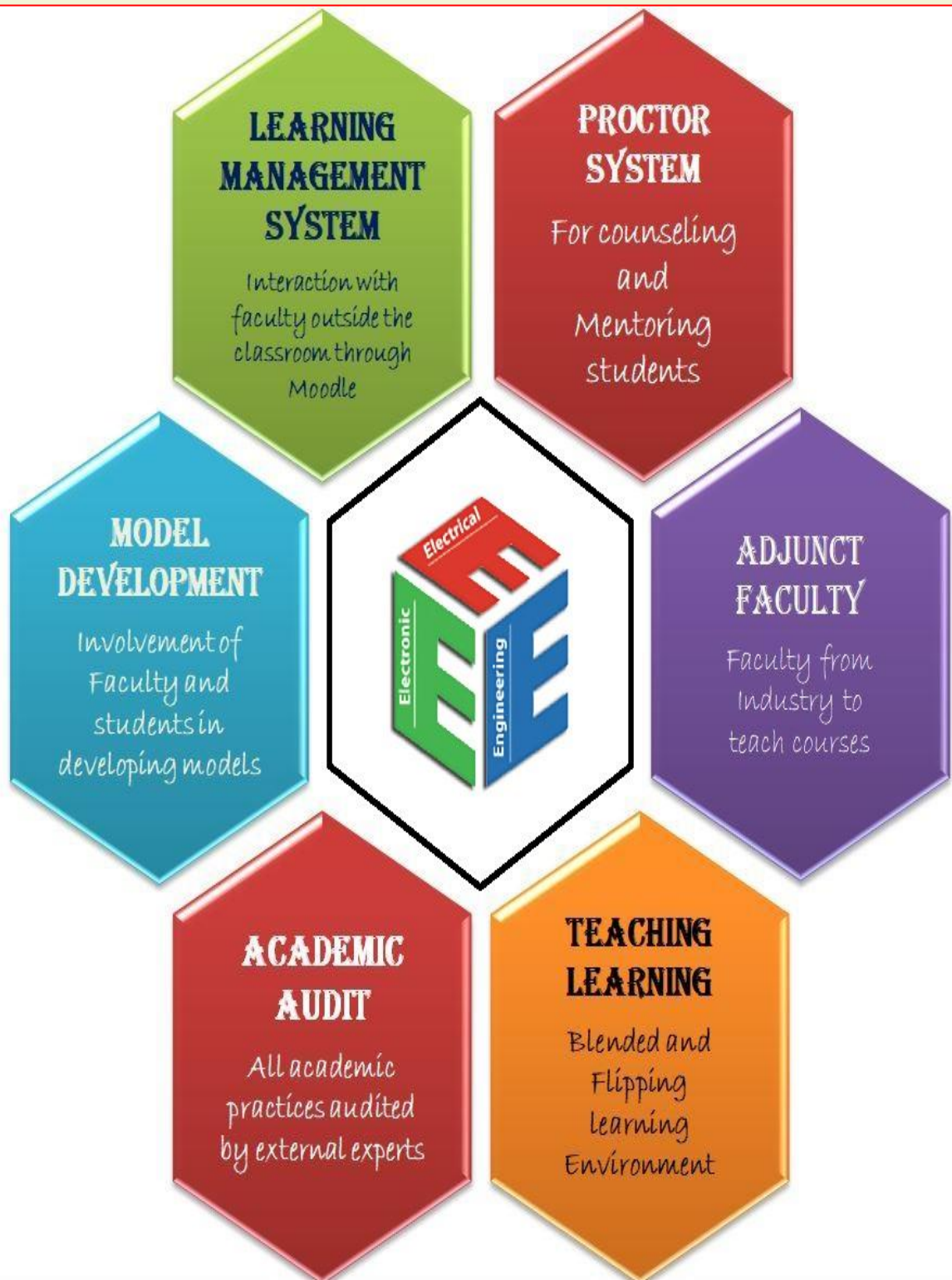
The department has a well-established Innovation and Incubation Center. The center is established during academic year 2015-16 with a foot area 63.06 square meter. Innovative and incubation center is the place to develop hardware projects, products and to do R&D by the students and faculty. The center is equipped with all varieties of electronics components like, sensors, relays, power supply components, motors etc and proper tools to assemble circuit components. This center also equipped with facility to make PCB boards. The center is utilized 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 center for the future reference to demonstrate the students by the staff.

DEPARTMENT LIBRARY



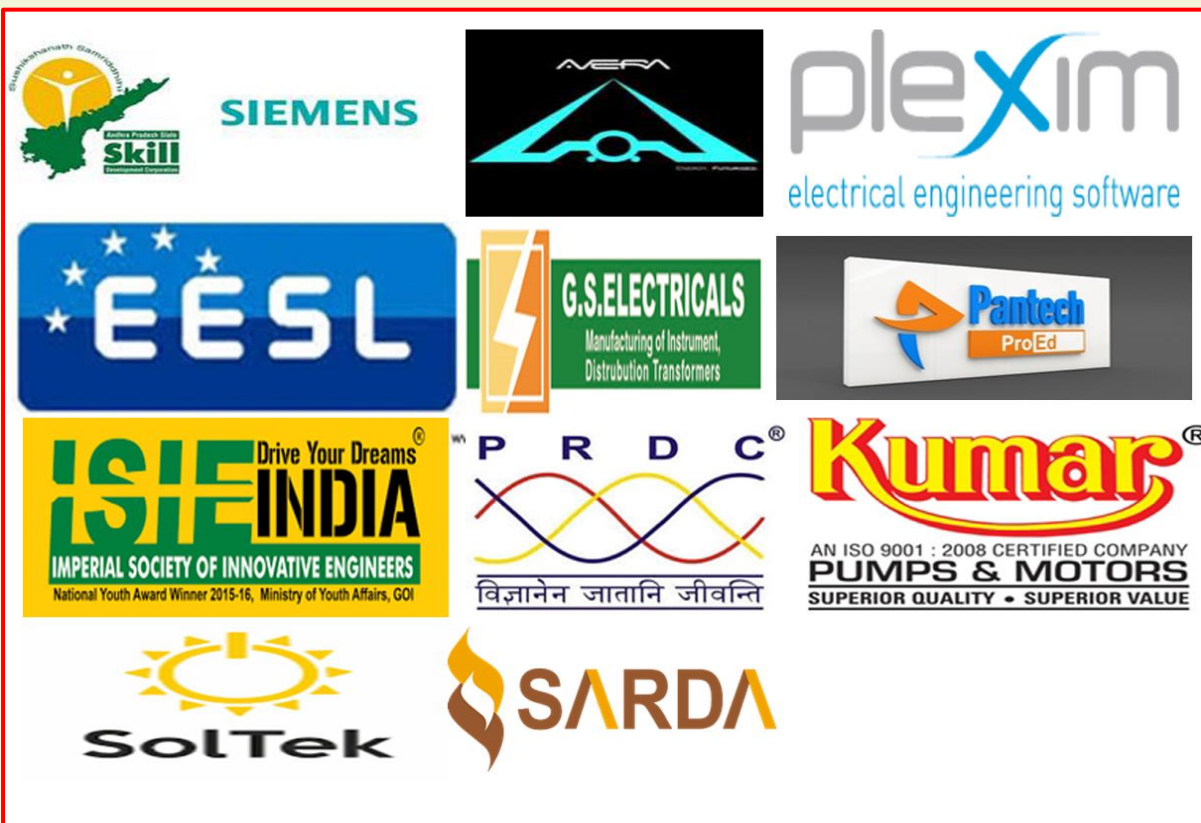
Department Library has a stock of 833 volumes with 418 titles of books, has 772 volumes for UG and 61 volumes for PG students. Standard textbooks and books by authors of repute in all fields are stocked at the department library. The department library has access to National journals, magazines and e-Journals 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.

BEST PRACTICES IN THE DEPARTMENT



MOU's

S. No.	Name of the Industry/ Institute/ Organization	Date of MoU	Validity
1	EESL	Aug. 2017	Till date
2	APSSDC – SIEMENS	Nov. 2017	Till date
3	PRDC	Dec. 2017	30/04/2021
4	KUMAR PUMPS AND MOTORS	March 2018	5 years
5	PANTECH PROED PVT. LTD.	Sep. 2018	36 Months
6	G.S. ELECTRICALS	Nov. 2018	5 years
7	MIMCROLINK PERIPHERALS CONTROLS PVT. LTD.	Nov. 2018	5 years
8	M/S SOLTEK PHOTOVOLTAGE PVT. LTD.	Feb. 2019	5 years
9	ISIE INDIA	May 2019	12 Months
10	PANDA SOLAR	Aug. 2019	5 years
11	SARDA METALS & ALLOYS LTD.	Sep. 2019	24 Months
12	AVERA	March 2020	5 years
13	PLEXIM	June 2020	2 years



GUEST LECTURES

Details of Guest Lectures & Discussions conducted by the Department

S. No	Date	Topic	Speaker	Audience
1.	10-07-2019	Guest Lecture on “Induction motor fault analysis using Support Vector Machine”	Prof. S.R. Kolla, Bowling Green University, USA	IV EEE A & B 103 Students
2.	19-07-2019	Guest Lecture on “Stress management”	Mr. K. Vamsi, Faculty, Art of Living, Vijayawada.	Faculty 26 Faculty
3.	27-07-2019	Guest Lecture on “Modern trends in Power System”	Prof. V V S Bhaskara Reddy, AU College of Engineering, Visakhapatnam	II EEE A&B 110 students
4.	10-08-2019	Guest Lecture on “IOT and Machine Learning applications in Electrical Engineering”	Er. SV Prasad Rao, DE, AP Transco, Vijayawada	III EEE 71 students, 7 Faculty
5.	22-08-2019	Guest lecture on “Career Orientation”	Er. Ch Badarinath, Consulting director, start-ups AP and Telangana.	II EEE 130 students 8 Faculty
6.	31-12-2019	Guest Lecture on “Women Mental Health”	Dr. V Radhika Reddy, Psychiatrist, Pooja Psychiatry centre, Vijayawada	II EEE girl Students



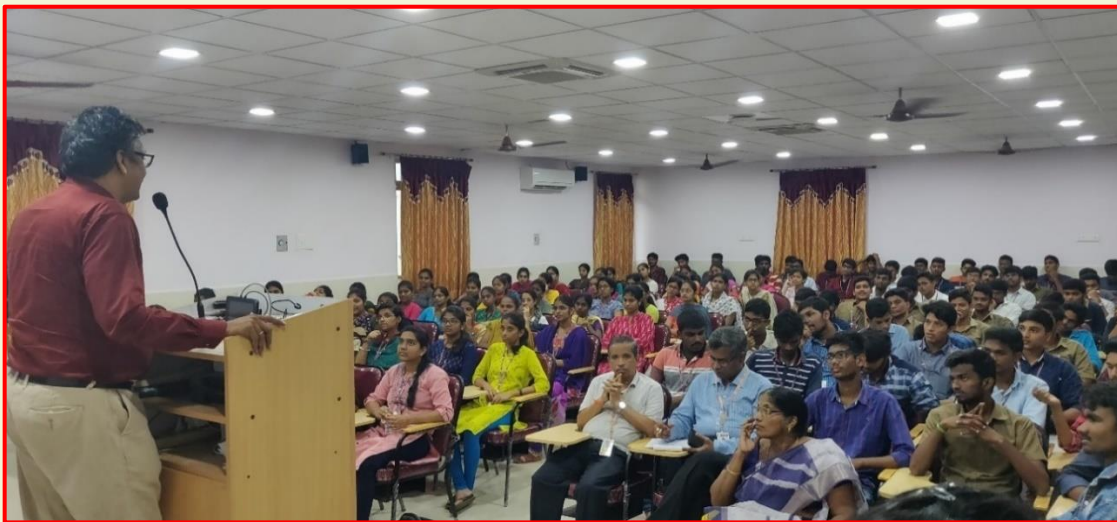
Guest Lecture by **Dr. SR Kolla**,
Bowling green univ., USA



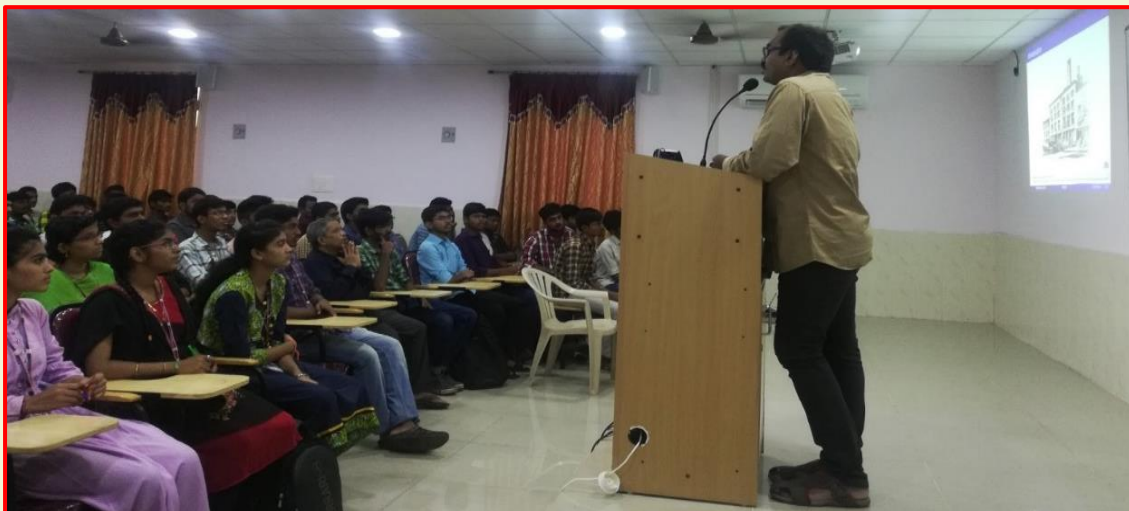
Head of EEE department felicitating
M H Rasheed, Florida Polytechnic, USA.



Guest Lecture by **SV Prasad Rao** on IOT & Machine Learning applications in Electrical Engineering



Guest lecture by **Ch Badrinath** on Career Orientation



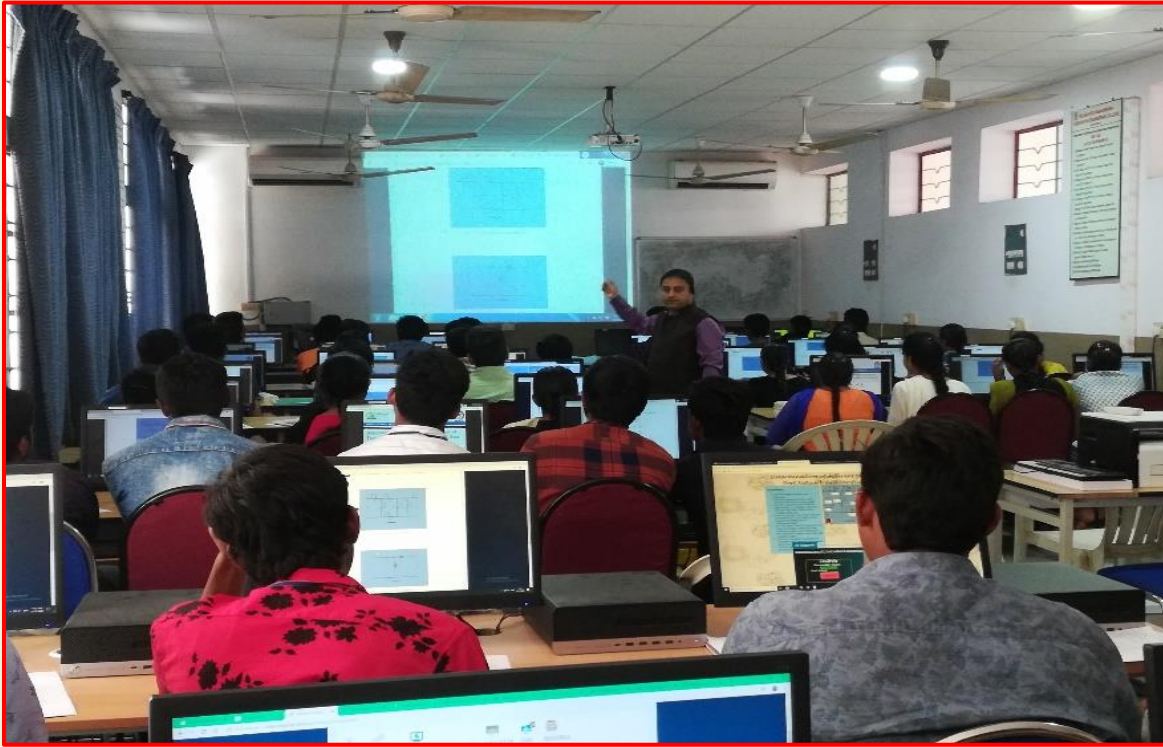
Guest lecture by **Prof. V V S Bhaskara Reddy**, AU College of Engg., Visakhapatnam

WORKSHOPS CONDUCTED

S. No	Date	Topic & Sponsor	Coordinator/ Speakers	Audience
1.	17-07-19	Seminar on “Electrical Vehicle Technology” Sponsor: SAGTE	Speaker: Dr. P V Rajagopal Rtd AGM, R&D BHEL, Hyderabad Coordinator: Dr. J. Ramesh	III EEE A&B 114 students
2.	05-08-2019	One day Seminar on “Outcome based education” Sponsor: SAGTE	Speaker: Dr. Muhammad H Rashid, Prof & Chair, Florida Polytechnic University, USA	IV EEE A&B
3.	09-09-2019 to 14-09-2019	One-week Workshop on “IOT Fundamentals and advanced concepts” Sponsor: SAGTE &APSSDC	APSSDC Speakers: 1. Dr. B. Nageswara Rao, Executive Director, APSSDC 2. SVV Ramana, Project Director 3. M. Rama Krishna Assoc. project director 4. Sumanth, trainor, APSSDC 5. Satish, Design Tech, APSSDC 6. Venkateswara Rao, Design Tech, APSSDC Coordinators: JB, AVR, Tilak	II EEE - B Students 68 Students 4 Faculty
4.	30-09-2019 to 05-10- 19	One-week Workshop on “IOT Fundamentals and advanced concepts” Sponsor: SAGTE & APSSCD	APSSDC, Speakers: 1. Sumanth, trainor, APSSDC 2. Satish, master trainer Design Tech, APSSDC 3. Venkateswara Rao, master trainer, Design Tech, APSSDC Coordinators: JB, AVR, Tilak	II EEE - A Students 4-Faculty
5.	8-12-19 to 9-12-19	Workshop on ‘Electronic component testing and PCB Design’ Sponsor: SAGTE	Speakers: 1. T. Suneel 2. R. MadhusudhanaRao 3. R. G. Bala Krishna 4. T. PurnachandraRao 5. J. Bhavani	I EEE – A students

WORKSHOPS CONDUCTED

6.	31-01-2020	Workshop on Virtual Labs Sponsor: SAGTE	Speakers: Dr. Alok Kanti Deb, Assoc., Prof., IIT KGP	Faculty II EEE
7.	22 -6- 2020 to 27 – 6- 2020	One-week FDP on “Computational intelligence and modeling in modern power systems” Sponsor: AICTE Margadharshan (Rs.36,000)	Coordinator: Dr. Subhojith Dawn. Asst. Professor, VRSEC Speakers: 1. Dr. Sujith Kumar Biswas, Vice Chair, IEEE India council 2. Dr. D Debnath, IIT Kgp 3. Dr NBV Choudhury, HOD EE, NIT Silchar 4. Dr. PK Tiwari, MNNIT Allahabad 5. Dr. Santosh K Singh, Pdf, Zhegiang Univ, China 6. Dr. D Saha, GIMT Guwahaiti 7. Dr. A Rehman, NIT Srinagar 8. Dr. S Gope, Mizoram University 9. Mr. K Dey, researcher, Univ of Cambridge, UK 10. Ms. S Kar, researcher, NTU, Singapore 11. Dr. Swapan Das, Senior SE, Indian Railways 12. Dr K N Dinesh Babu, Application and Production Manager, Megger	102 participants
8.	25.07.2019 to 28.07.2019	Four days’ Workshop on Machine Learning using PYTHON	1.Mr. E.Balavignesh, Vijayawada. 2.Mr. S.Kamalesh, Hyderabad 3.Mr. M.K.Prabu, Chennai 4.Mrs. Ch. Pooja, Vijayawada. 5.Mrs. V. Anitha, Vijayawada.	140 Participants



Virtual labs demo by **Alok Kanti Deb, IIT Kharagpur**



Principal felicitating **Dr. B Nageswara Rao**, Exect. Director APSSDC on the inaugural function of one-week workshop on IOT fundamentals and advances on 11-09-2019





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Application & Product Manager
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Sri P. Ravi Prasad
CEO
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International Journals

1. **S. V. R. Lakshmi Kumari**, M. Uma Vani “Analysis of Various Control Schemes of Dynamic Voltage Restorer for Power Quality Improvement in Distribution System”, *International Journal of Innovative Technology and Exploring Engineering*, Volume-8 Issue-9S3, pp. 403-408, July 2019. **(Scopus Indexed)**
2. G. Harish, **Dr. M S Krishnarayalu** “Automatic Generation Control of Multi Area Power Ssystems with Wind Energy” *Journal of Electrical and Power System Engineering (MAT Journal)*, Vol. 5, No. 3 pp1-14, 2019.
3. **Venu Sonti**, Sachin Jain, Vivek Agarwal and Subhashish Bhattacharya “Terminal Voltage Analysis for the Transformerless Photovoltaic Inverter Topologies in Single Phase System” *IET Renewable Power Generation*, 10.1049/iet-rpg.2019.0106, 16 August 2019. **(IET, SCI)**
4. **M S Krishna Rayalu**, D. Teresa “On Deregulated Power System AGC with Solar Power” *International Journal of Computer Applications (0975 – 8887)*, Volume 178 – No. 45, pp 22-30, 18 September 2019.
5. **Krishna Rayalu**, K. Sai Teja “Load Frequency and Voltage Control Of Multi-Area Smart Grid” *International Journal of Scientific & Technology Research*, Vol. 8, Issue 09, pp. 874-882, September 2019. **(Scopus Indexed)**
6. V. L. Phani Bhushan, **Gummadi Srinivasa Rao**, “Transmission Congestion Management by using Lmp Method in De-Regulated Electricity” *International Journal of Recent Technology and Engineering (IJRTE)*, ISSN: 2277-3878, Volume-8 Issue-2S11, September, 2019, pp. 2017-2020. **(Scopus Indexed)**
7. **B. Venkateswara Rao**, G. V. Nagesh Kumar, D Deepak Chowdary and B. Sravana Kumar, “Optimal tuning of Unified Power Flow Controller parameters using firefly algorithm”, *Modelling, Measurement and Control A*, Volume 92, No.2-4, December 2019, pp. 81-85.
8. Y Jaswanth, R Rachana, & **B Venkateswara Rao**, “Protection of Microgrids with Arduino Control Scheme” *Journal of Controller and Converters*, 4 (3), 43–49. doi.org/10.5281/zenodo.3566467.
9. **V. Sonti**, S. Jain and V. Agarwal, "Analysis of Terminal Voltage in Single-Phase Extended Three-Phase Transformerless PV Inverter Topologies," in *IEEE Journal of Photovoltaics*, vol. 10, no. 1, pp. 226-235, Jan. 2020. **(IEEE, SCI Indexed)**.
10. **B. G. T. Vangalapudi** and D. Kastha, "Reconfigurable Control of the Quasi-Parallel Voltage Regulator for Powering Laptop Processors" in *IEEE Transactions on Power Electronics*. doi: 10.1109/TPEL.2019.2949307. **(IEEE, SCI Indexed)**.

11. **S. Lakhimsetty** and V. T. Somasekhar, "An Efficient Predictive Current Control Strategy for a Four-Level Open-End Winding Induction Motor Drive" in *IEEE Transactions on Power Electronics*. doi: 10.1109/TPEL.2019.2954864. **(IEEE, SCI Indexed)**.
12. T. Nagadurga, **P. V. R. L. Narasimham** & V. S. Vakula (2020) Global maximum power point tracking of solar PV strings using the teaching learning based optimisation technique, *International Journal of Ambient Energy*, DOI: 10.1080/01430750.2020.1721327. **(ESCI Indexed)**.
13. G. Kishore Babu, B. Madhu Kiran, V. Matthew and **T. Suneel**, "Improve the stability of the Segmented Traction Drive by Reducing the Harmonics with Controller", *International Journal of Innovation Technology and Exploring Engineering*, ISSN: 2278-3075, volume 9, Issue-3S2, January-2020. **(Scopus Indexed)**.
14. V. Sonti, S. Jain and **B. S. K. R. Pothu**, "Leakage Current Minimization Using NPC DC Decoupling Method for Three-Phase Cascaded Multilevel PV Inverter," in *IEEE Transactions on Circuits and Systems II: Express Briefs*, doi: 10.1109/TCSII.2020.2984014. **(IEEE, SCI Indexed)**.
15. O. Chandra Sekhar, **S. Lakhimsetty** "Direct Torque Control Scheme for a Five-Level Multi-Point Clamped Inverter fed Induction Motor Drive using Fractional-order PI Controller". *International Trans. on Electrical Energy Systems* 2020; DOI: 10.1002/2050-7038.12474 **(SCI Indexed)**.
16. **P. Venkatesh**, S. Upernder Rao, T. suneel, "Frequency Regulation in Multi Area Power System Optimized by Firefly Swarm Hybridization Algorithm", *International Journal of Innovation Technology and Exploring Engineering*, ISSN: 2278-3075, volume 9, Issue-6, April-2020. **(Scopus Indexed)**
17. Kavuturu, K.V.K., **Narasimham, P.V.R.L.** "Transmission Security Enhancement under (N-1) Contingency Conditions with Optimal Unified Power Flow Controller and Renewable Energy Sources Generation". *J. Electr. Eng. Technol.* **15**, 1617-1630 (2020). **(SCIE Indexed)**.
18. Kameswara Vasishta Kumar Kavuturu and **P.V.R.L. Narasimham** "Optimization of Transmission System Security Margin under (N-1) Line Contingency Using Improved PSO Algorithm" *International Journal on Electrical Engineering and Informatics* - Volume 12, Number 2, June 2020. **(Scopus Indexed)**.
19. D. H. C. P. Babu Nayak, **M. S. Krishna Rayalu** "Automatic Generation Control of Two Area Thermal Power System with PI Controllers Using State Space Approach" *SSRG International Journal of Electrical and Electronics Engineering (SSRG - IJEEE)* - Volume 7 Issue 6 - June 2020.
20. M. Rambabu, **B. Venkateswara Rao**, G.V. Nageshkumar, B. Sravan Kumar, "Strategy and optimization of a mixture of Nonconventional Energy Sources in the energy system", *International Journal of Electrical Engineering and Technology (IJEET)*, Volume 11, Issue 4, June 2020, pp. 225-233, ISSN Print: 0976-6545 and ISSN Online: 0976-6553 **(Scopus Indexed)**.

International Conferences

1. **Dr. M. S. Krishnarayalu**, D. Teresa, “Automatic Generation Control of Multi Area Power System” *11th International Exergy, Energy and Environment Symposium (IEEES-11)*, July 14 -18, 2019, Chennai, India.
2. **Dr. A. Rama Devi**, K. Kavya, “Power System Dynamic State Estimation with Non-Linear Filter Techniques”, *11th International Exergy, Energy and Environment Symposium (IEEES-11)*, July 14 -18, 2019, Chennai, India.
3. K. Indiraa, **Dr. B. Srinivasa Rao**, "Transmission Expansion Planning Considering Wind Energy Conversion Systems Using PSO" *Proceedings of International Conference on Innovations in Power, Energy and Intelligent Control Systems (IPEICS-19)*, Organized by Vignan’s Foundation for Science Technology & Research, Guntur, during 08th & 09th August, 2019.
4. A. Naveen Reddy, Ramesh D, **Venkateswararao B**, “Salp Swarm Algorithm for solving the Economic Dispatch of Real Power Generation by Considering Generator Constraints”, *Proceedings of International Conference on Innovations in Power, Energy and Intelligent Control Systems (IPEICS-19)*, Organized by Vignan’s Foundation For Science Technology & Research, Guntur, during 08th & 09th August, 2019. ISBN-978-81-940317-0-3.
5. Sudhakar Uppala, **S.V.S Phani Kumar**, “Fault Analysis of a 400kV Switchyard of 500 MW Thermal Power Plant”, *Proceedings of International Conference on Innovations in Power, Energy and Intelligent Control Systems (IPEICS-19)*, Organized by Vignan’s Foundation For Science Technology & Research, Guntur, during 08th & 09th August, 2019. ISBN-978-81-940317-0-3.
6. K V Kumar Kavuturu, **PVRL Narasimham** “Optimization of Transmission System Security Margin under (N-1) Line Contingency Using Improved PSO Algorithm” *International Conference on Smart Systems and Inventive Technology (ICSSIT 2019)* organized by Francis Xavier Engineering College, Tirunelveli, India during 27-29 November, 2019. (**IEEE**)
7. P Lakshmi, **B Venkateswara Rao**, “BAT ALGORITHM BASED OPF FOR A POWER SYSTEM CONSISTING OF SVC”, *Proceedings of International Conference on SMART ENERGY SYSTEMS AND ELECTRIC VEHICLES (ICSESEV-2020)*, organized by Department of Electrical and Electronics Engineering, at V R Siddhartha Engineering College, Vijayawada, during 8th – 10th JANUARY 2020, ISBN:978-819-2-329536.
8. Y Bindu Priyanka, M Manaswini, Ch. S. V. S. Phani Kumar, Ch. Ravi Chandra, **B Venkateswara Rao**, “LOAD MONITORING AND CONTROL OF ALTERNATORS USING PLC & SCADA”, *Proceedings of International Conference on SMART ENERGY SYSTEMS AND ELECTRIC VEHICLES (ICSESEV-2020)*, organized by Department of Electrical and Electronics Engineering, at V R Siddhartha Engineering College, Vijayawada, during 8th – 10th JANUARY 2020, ISBN:978-819-2-329536.

9. D. Vimala, **P. Venkatesh**, "Robust firefly swarm hybrid optimization for frequency regulation in multi area power system" *International Conference on Smart Energy Systems and Electric Vehicles (ICSESEV-2020)*, 8th – 10th January, 2020, EEE Department, VRSEC, Vijayawada.
10. B. Srivani, G. Kishore Babu, **T. Suneel** and K. Krishnakanth, "Simulation of PFC Correction for Bridgeless Boost AC-DC Fed to Induction Motor" *International Conference on Smart Energy Systems and Electric Vehicles (ICSESEV-2020)*, 8th – 10th January, 2020, EEE Department, VRSEC, Vijayawada.
11. P Ramkee, **S N V S K Chaitanya**, B V Rao and R Ashok Bakkiyaraj, "Optimal reactive power dispatch incorporating solar power using Firefly Algorithm", *Proceedings of International Conference on SMART ENERGY SYSTEMS AND ELECTRIC VEHICLES (ICSESEV-2020)*, organized by Department of Electrical and Electronics Engineering, at V R Siddhartha Engineering College, Vijayawada, during 8th – 10th JANUARY 2020, ISBN:978-819-2-329536.
12. Sk. Khaja Mohiddin, **L. Suresh** "A Comparative Analysis of Current Control Techniques for a Grid connected Single Phase Inverter" *International Conference on Smart Energy Systems and Electric Vehicles (ICSESEV-2020)*, 8th – 10th January, 2020, EEE Department, VRSEC, Vijayawada.
13. Aswini Patakamoori, **M Hareesh**, "Hysteresis Control based Algorithm for Shunt Active Power Filter to Enhance Power Quality" *International Conference on Smart Energy Systems and Electric Vehicles (ICSESEV-2020)*, 8th – 10th January, 2020, EEE Department, VRSEC, Vijayawada.
14. **V B G Tilak**, Vana Santoshi Raju "A Review on Voltage Regulator Topologies for Microprocessor Loads" *International Conference on Smart Energy Systems and Electric Vehicles (ICSESEV-2020)*, 8th – 10th January, 2020, EEE Department, VRSEC, Vijayawada.
15. D. H. C. P. Babu Nayak, Dr. **M. S. Krishnarayalu** "Automatic generation control of single area power system with PID control using state space approach" *ICASIC 2020*, 28-02-2020, VIT, VELLORE.
16. Divyavani Jalapati, **A. Rama Devi**, A Pavani "Mitigation of power quality issues in EAF using UPQC" *3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT)*, 2018. (**IEEE**).
17. **S. N. V. S. K. Chaitanya**, B. Venkateswararao "Optimal Reactive Power Dispatch of Interconnected Power System using Firefly Algorithm" *ICASIC 2020*, 28-02-2020, VIT, Vellore.
18. Manasvi K, **Venkateswararao B**, Ramesh Devarapalli, Upendra Prasad, "PSO based Optimal Reactive Power Dispatch for the enrichment of power system performance", *Electric Power and Renewable Energy Conference-2020*, held on 29th – 30th May 2020, Organized by the Department of Electrical Engineering, National Institute of Technology Jamshedpur.

Book Chapters

1. Kunapareddy M., Rao B.V. (2020) Hybridization of Particle Swarm Optimization with Firefly Algorithm for Multi-objective Optimal Reactive Power Dispatch. In: Deepak B., Parhi D., Jena P. (eds) *Innovative Product Design and Intelligent Manufacturing Systems*, pp 673-682. Lecture

- Notes in Mechanical Engineering book series (LNME). Springer, Singapore, 14 March 2020, DOI https://doi.org/10.1007/978-981-15-2696-1_64, Online ISBN 978-981-15-2696-
2. **Venkateswara Rao B.**, Sateesh B., Uma Maheswari R., Nagesh Kumar G.V., Sobhan P.V.S. (2020) Enhancement of Line-Based Voltage Stability of Energy System with Thyristor Controlled Series Capacitor Using Cuckoo Search Algorithm. In: Deepak B., Parhi D., Jena P. (eds) Innovative Product Design and Intelligent Manufacturing Systems, pp 641-650. Lecture Notes in Mechanical Engineering. Springer, Singapore, 14 March 2020, DOI https://doi.org/10.1007/978-981-15-2696-1_61, Online ISBN 978-981-15-2696-1(**Scopus Indexed**).
 3. Sravan Kumar B., Uma Maheswari R., Sateesh B., **Venkateswara Rao B.**, Nagesh Kumar G.V. (2020) Contingency Management of a Power System Using Rapid Contingency Management Technique and Harmony Search Algorithm. In: Deepak B., Parhi D., Jena P. (eds) Innovative Product Design and Intelligent Manufacturing Systems, pp 821-829. Lecture Notes in Mechanical Engineering. Springer, Singapore, 14 March 2020, DOI https://doi.org/10.1007/978-981-15-2696-1_79, Online ISBN 978-981-15-2696-1(**Scopus Indexed**).
 4. Lavanya M., **Rao G.S.** (2020) Placement and Sizing of Distributed Generation Units for Improvement of Voltage Profile and Congestion Management Using Particle Swarm Optimization. In: Deepak B., Parhi D., Jena P. (eds) Innovative Product Design and Intelligent Manufacturing Systems. Lecture Notes in Mechanical Engineering. Springer, Singapore (**Scopus Indexed**)
 5. **M. L. N. Vital**, V. Harivamsi, T. Purnachandra Rao, K. Srikanth. (2020) Human Guided following trolley mechanism and integrated shopping mechanism using RFID. In: Deepak B., Parhi D., Jena P. (eds) Innovative Product Design and Intelligent Manufacturing Systems. Lecture Notes in Mechanical Engineering. Springer, Singapore (**Scopus Indexed**)
 6. **T. Purnachandra Rao**, K. Srikanth, MLN Vital, V. Harivamsi. (2020) Optimal allocation of solar DGs in Distribution Network. In: Deepak B., Parhi D., Jena P. (eds) Innovative Product Design and Intelligent Manufacturing Systems. Lecture Notes in Mechanical Engineering. Springer, Singapore (**Scopus Indexed**)
 7. Sowmith P., **Madhusudhanrao R.**, Gouthamkumar N. (2020) Optimal Scheduling of Hydrothermal Plant Using Particle Swarm Optimization. In: Deepak B., Parhi D., Jena P. (eds) Innovative Product Design and Intelligent Manufacturing Systems. Lecture Notes in Mechanical Engineering. Springer, Singapore (**Scopus Indexed**).

FACULTY ONLINE COURSES

S. No	Name of the Course	Organized by	Duration	Dates	Faculty
1.	Training in the course of “Electrical Vehicles, Charging station Infra structure & Manufacturing Technologies”	National Small Industries Corporation Ltd, Technical Services Centre, Hyd., Telangana.	15 days	13-09-2019 to 27-09-2019	Dr. J Ramesh
2.	NPTEL-AICTE FDP on DC Microgrid	NPTEL IIT M	3 months	July to Sep. 2019	Dr. J Ramesh
3.	FDP on “Introduction to IOT”	NPTEL, IITM	4 months	July to Oct. 2019	R Madhusudhana Rao
4.	Power System Protection	Tata Steel, Jamshedpur	1 day	22nd May 2020	Dr. Subhojit Dawn
5.	Power System Earthing	Tata Steel Jamshedpur	1 day	31st May 2020	Dr. Subhojit Dawn
6.	Power System Power Cables	Tata Steel Jamshedpur	1 day	31st May 2020	Dr. Subhojit Dawn
7.	AI for everyone	Coursera	4 weeks	23-04-2020	K Srikanth
8.	Getting started with essay writing	Coursera	4 weeks	29-04-2020	K Srikanth
9.	Introduction to Battery Management Systems	Coursera	4 weeks	18-05-2020	K Srikanth
10.	Electrical Power Systems	Coursera	4 weeks	26-04-2020	K Srikanth
11.	Safety in utility industries	Coursera	4 weeks	23-05-2020	K Srikanth
12.	AI for Everyone	Coursera	4 weeks	21 April 2020	SNVSK Chaitanya
13.	COVID-19	Coursera	1 weeks	21 April 2020	SNVSKCHAITA NYA
14.	Wind Energy	Coursera	4 weeks	22nd April 2020	SNVSKCHAITA NYA
15.	Electrical Power Systems	Coursera	4 weeks	30th April 2020	SNVSKCHAITA NYA
16.	AI for everyone	Coursera	4 weeks	25-04-2020	Madhusudana rao Ranga
17.	COVID-19	Coursera	1 weeks	25-04-2020	Madhusudana rao Ranga
18.	AI for everyone	Coursera	4 weeks	4-May 2020	V B G Tilak
19.	Electric Power Systems	Coursera	4 weeks	Jun 9 2020	V B G Tilak
20.	Averaged-Switch Modeling and Simulation	Coursera	3 weeks	May 17 2020	V B G Tilak
21.	AI For Everyone	Coursera	4 weeks	04-22-2020	Dr. L Suresh
22.	Introduction to Power Electronics	Coursera	3 weeks	04-24-2020	Dr. Suresh Lakhimsetty
23.	Converter Circuits	Coursera	4 weeks	05-15-2020	Dr.L Suresh
24.	Introduction to battery Management Systems	Coursera	5 weeks	05-26-2020	Dr. Suresh Lakhimsetty

25.	AI for Everyone	Coursera	4 weeks	28-04-2020	Dr.J.Ramesh
26.	Blockchain Basics	Coursera	4 weeks	18-06-2020	Dr.J.Ramesh
27.	AI For Everyone	Coursera	4 WEEKS	06-01-2020	M.L.N.Vital
28.	AI for Everyone	Coursera	4 weeks	22.04.20	P.venkatesh
29.	COVID-19	Coursera	1 Weak	09.05.20	P.venkatesh
30.	Electrical Power Systems	Coursera	4 weeks	23.04.20	P.venkatesh
31.	AI for everyone	Coursera	4 weeks	21.04.2020	S.V.R.Lakshmi Kumari
32.	Electrical Power Systems	Coursera	4 weeks	24.4.2020	S.V.R.Lakshmi Kumari
33.	Wind Energy	Coursera	4 weeks	1.05.2020	S.V.R.Lakshmi Kumari
34.	COVID-19	Coursera	1week	24.4.2020	S.V.R.Lakshmi Kumari
35.	AI for everyone	Coursera	4 weeks	12.05.2020	Dr B Venkateswara Rao
36.	Electric Power Systems	Coursera	4 weeks	25.04.2020	Dr B Venkateswara Rao
37.	COVID-19	Coursera	1 weeks	22.04.2020	Dr B Venkateswara Rao
38.	Wind Energy	Coursera	4 weeks	22.04.2020	Dr B Venkateswara Rao
39.	Wind Energy	Coursera	4 weeks	22.04.2020	A.Veera Reddy
40.	AI for Everyone	Coursera	4 weeks	25.04.2020	A.Veera Reddy
41.	Covid-19	Coursera	1 week	23.04.0202	A.Veera Reddy
42.	Electrical Power Systems	Coursera	4 weeks	24.04.2020	A.Veera Reddy
43.	Programming for everybody(getting started with Python)	Coursera	7 week	21.04.20	Dr. N. Vams Krishna
44.	Ai for everyone	Coursera	4 week	21.04.20	Dr. N. Vams Krishna
45.	Python programming: Aconcise introduction	Coursera	4 week	25.04.20	Dr. N. Vams Krishna
46.	Programming for everybody (getting started with Python)	coursera	4week	28.04.20	Dr.A.Rama Devi
47.	Ai for everyone	coursera	4week	23.04.20	Dr.Rama Devi
48.	AI for everyone	Coursera	4 weeks	22/4/2020	Dr.G.Srinivasa Rao
49.	Electrical Power Systems	Coursera	4 weeks	30/4/2020	Dr.G.Srinivasa Rao
50.	Solar Energy Bsics	Coursera	4 weeks	26/4/2020	Dr.G.Srinivasa Rao
51.	Improve Business performance with Google forms	Coursera	1 week	24/5/2020	Dr.G.Srinivasa Rao
52.	Ai for everyone	Coursera	4 weeks	22-4-2020	P.sowmith

FACULTY ONLINE COURSES

53.	PROGRMMING FOR EVERY ONE (GETTING STARTED WITH PYTHON)	Coursera	4 weeks	17-5-2020	P.sowmith
54.	ELECTRICAL POWER SYSTEM	Coursera	4 weeks	30-5-2020	P.sowmith
55.	ELECTRIC UTILITIES FUNDAMENTALS AND FUTURE	Coursera	4 weeks	20-6-2020	P.sowmith
56.	AI for everyone	Coursera	4 weeks	23-04-2020	T purnachandra Rao
57.	Electrical Power Systems	Coursera	4 weeks	26-04-2020	T purnachandra Rao
58.	Electric Power Systems	Coursera	4 weeks	Jun 2 2020	Dr. B Srinivasa Rao
59.	AI For Everyone	Coursera	4 weeks	May 6 2020	Dr. B Srinivasa Rao
60.	Inspiring and Motivating Individuals	Coursera	4 weeks	May 11 2020	Dr. B Srinivasa Rao
61.	Engineering Project Management: Initiating and Planning	Coursera	4 weeks	May 27 2020	Dr. B Srinivasa Rao
62.	Programming for Everybody (Getting Started with Python)	Coursera	4 weeks	Apr 24 2020	Dr. B Srinivasa Rao
63.	Electric Industry Operations and Markets	Coursera	4 weeks	Apr 27 2020	Dr. B Srinivasa Rao
64.	Introduction to battery-management systems	Coursera	4 weeks	May 22 2020	Dr. B Srinivasa Rao
65.	COVID-19	Coursera	1 weeks	23rd April 2020	Dr. Subhojit Dawn
66.	AI for Every one	Coursera	4 weeks	28th April 2020	Dr. Subhojit Dawn
67.	Electric Power System	Coursera	4 weeks	13th May 2020	Dr. Subhojit Dawn
68.	Electric Industry Operations and Markets	Coursera	4 weeks	13th May 2020	Dr. Subhojit Dawn
69.	AI for everyone	Coursera	4 weeks	25-04-2020	Dr.CBN
70.	Blockchain Basics	Coursera	4 weeks	21-06-2020	Dr.CBN
71.	Advanced Converter control techniques	Coursera	4 weeks	25-May-2020	Dr. Hareesh Myneni
72.	AI for everyone	Coursera	4 weeks	7-May-2020	Dr. Hareesh Myneni

FACULTY WORKSHOPS ATTENDED

Details of Workshops/FDPs attended by the faculty

S. No	Topic	Organizing Institute	Dates of the event	Name of the Faculty
1	One-week national SPARC workshop on “Advanced Converters for Microgrid and electrical transportation”	Dept. of EE, NITW	15th-19th July 2019	Dr. S. Venu
2	Knowledge sharing program on “Academic Excellence – Creating Climate through communication”, ICFAI, Vijayawada.	ICFAI, Vijayawada	22nd July 2019	Mr. Sai Teja
3	Short term training program on “Energy management of smart grids and micro grids using IOT	EEE Dept., RVR & JC College of Engineering, Guntur	29 th July to 3rd August 2019	Mr. Sai Teja
4	FDP on “Internet of things”	APSSDC, VRSEC	9 th -14 th September 2019	A Veera Reddy J Bhavani VGB Tilak
5	Participated in National Conference on “Indian Higher Education: Agenda for Innovation – Leapfrogging inspite of all constructions	Educational Promotion society for India, Chennai	14 th September 2019	Dr. B Srinivasa Rao
6	Training in the course of “Electrical Vehicles, Charging sation Infra structure & Manufacturing Technologies”	National Small Industries Corporation Ltd, Technical Services Centre, Hyderabad, Telangana.	13 th – 27 th September, 2019	Dr. J Ramesh
7	FDP on “Industrial Automation”	APSDC, Siemens Centre of Excellence, VRSEC	1 st -6 th ,July, 2019	Ms. J Bhavani
8	NPTEL-AICTE FDP on DC Microgrid	NPTEL IIT M	July to September 2019	Dr. J Ramesh

FACULTY WORKSHOPS ATTENDED

9	Workshop on “Funding opportunities for innovation and entrepreneurship development”	Institutions Innovation Council (IIC), UnoM, TePP outreach cum cluster innovation centre, DSIR, Govt., of India & RMK Engineering College, Tamilnadu	9 th November,2019	Dr G Srinivasa rao
10	FDP on “Simulation tools for Electrical Engineering	EEE Department, LBRCE, Mylavaram	12 th -14 th , Nov,2019	Md. Firdosuddin
11	Three day National Workshop on “Internet of Things”	Dept. of IT, Vignan’s foundation for Science Technology and research, Guntur	30 th august to 1 st November,2019	R Madhusudhana Rao
12	FDP on “Internet of Things”	APSSDC, VRSEC	9 th – 14 th ,nov,2019	Madhusudhana Rao R, VBG Tilak
13	FDP on “Introduction to IOT”	NPTEL	July- October 2019	R Madhusudhana Rao
14	Training on “Design thinking & innovations”	IIC Innovation Ambassador training Series, MLR Institute of Technology, Hyderabad	6-7 Feb 200	Dr. G Srinivasa Rao
15	Short term course on “Integration of advanced technologies to power quality solutions for green energy systems in smart grid”	EEE dept., Pondicherry Engineering College, Puducherry	17 th – 22 nd February 2020	T Purnachandra Rao
16	Resource Person for “one day workshop on FPGA Controllers for Power Electronic Applications” (Acted as resource Person)	EEE Department, JNTU K, Kakinada	22 nd , jan,2020	Dr. S Venu Mr. MLN Vital Mr. RG Balakrishna Mr.T Purnachandra Rao

ALUMNI MEET 2019-20

Alumni meet was conducted on 14-12-2019 in EEE department for 1990-1994 batch



Group photo of Alumni Batch 1990-94

STUDENT PLACEMENTS

A.Y	Name of the Company	No of students selected	Pay package
2019-20	MPHASIS	1	3.25 LPA
	TCS NINJA	28	3.6 LPA
	HEXAWARE	6	3 LPA
	CAPGEMINI	8	3.8 LPA
	GO-SPEEDY-GO	10	4.2 LPA
	INSMARGO	17	2.5 LPA
	JUST DIAL	2	3 LPA
	IBM	1	4.25 LPA
	FACE	1	2.88 LPA
	NTT DATA	1	3.5 LPA
	AMARARAJA	1	3 LPA
	DXC	1	3.4 LPA
	COGNIZANT (CTS)	1	4.1 LPA
	NUCLEUS SATELLITE	4	1.78 LPA
	QSPIDER	1	2.4 LPA
	NALSOFT	1	4 LPA
Total		84	

S. No	Name	Roll No	Company	Pay package (LPA)
1	M.V.S. VAISHNAVI	168W1A0232	MPHASIS	3.25
2	HEMA	168W1A0201	TCS NINJA	3.6
3	BHARGAVI	168W1A0203	TCS NINJA	3.6
4	VENKATA SATYA RAGHUVVEER	168W1A0208	TCS NINJA	3.6
5	SHANMUKHA SAI	168W1A0212	TCS NINJA	3.6
6	VIJAYADURGA	168W1A0213	TCS NINJA	3.6
7	PUJITHA	168W1A0221	TCS NINJA	3.6
8	SAI PRAVEEN	168W1A0231	TCS NINJA	3.6
9	SANDEEP	168W1A0234	TCS NINJA	3.6
10	DHARMALINGESWAR	168W1A0240	TCS NINJA	3.6
11	KOTI SAI MANIKANTA	168W1A0241	TCS NINJA	3.6
12	RAVI TEJA	168W1A0243	TCS NINJA	3.6
13	SAI DURGA BHARGAV	168W1A0244	TCS NINJA	3.6
14	PAVANI PRIYA	168W1A0247	TCS NINJA	3.6
15	PADMA	168W1A0250	TCS NINJA	3.6

STUDENT PLACEMENTS

16	SEKHAR	168W1A0251	TCS NINJA	3.6
17	ARUNA KUMARI	168W1A0255	TCS NINJA	3.6
18	BALAGAM.CHETANA	168W1A0262	TCS NINJA	3.6
19	DEVI SURYA TEJA	168W1A0266	TCS NINJA	3.6
20	LIKHITHA	168W1A0267	TCS NINJA	3.6
21	SIVANVITHA	168W1A0273	TCS NINJA	3.6
22	NUTHAN KISHORE	168W1A0284	TCS NINJA	3.6
23	TEJA SREE	168W1A0289	TCS NINJA	3.6
24	TRIPURAMBA	168W1A02A8	TCS NINJA	3.6
25	TEJA GANESH	178W5A0202	TCS NINJA	3.6
26	THRINATH BABU	178W5A0206	TCS NINJA	3.6
27	PRASANTH RAJU	178W5A0218	TCS NINJA	3.6
28	BINDU PRIYANKA	178W5A0224	TCS NINJA	3.6
29	HARISH	178W5A0225	TCS NINJA	3.6
30	SOWMYA	168W1A0252	HEXAWARE	3
31	SATYA SANDEEP	168W1A0271	HEXAWARE	3
32	AMRUTA SAHITHI	168W1A0274	HEXAWARE	3
33	VINEETH	168W1A0293	HEXAWARE	3
34	PURNA SANTHOSH	168W1A02A2	HEXAWARE	3
35	VENKATA SA I RITHWIK	168W1A02B8	HEXAWARE	3
36	SIVANJANA	168W1A0215	CAPGEMINI	3.8
37	SAI LAKSHMI HARSHITA	168W1A0227	CAPGEMINI	3.8
38	SHAIK RESHMA AFREEN	168W1A0249	CAPGEMINI	3.8
39	MANASWINI	168W1A0285	CAPGEMINI	3.8
40	SAI MEENAKSHI ALEKHYA	168W1A0297	CAPGEMINI	3.8
41	NAVEEN	168W1A02B3	CAPGEMINI	3.8
42	BHARGHAVI	178W5A0203	CAPGEMINI	3.8
43	MOOSA	178W5A0212	CAPGEMINI	3.8
44	NAGA SRUTHI	168W1A0233	GO-SPEEDY-GO	4.2
45	SAI PRIYANKA	168W1A0254	GO-SPEEDY-GO	4.2
46	ABDUL MATEEN	168W1A0260	GO-SPEEDY-GO	4.2
47	SUNIL JAIDEEP	168W1A0268	GO-SPEEDY-GO	4.2
48	K.N.D. PRABHALI	168W1A0279	GO-SPEEDY-GO	4.2
49	CHANDU	168W1A0295	GO-SPEEDY-GO	4.2
50	PUJITHA	168W1A02A0	GO-SPEEDY-GO	4.2
51	SAI ESWAR AKHIL KUMAR	168W1A02A7	GO-SPEEDY-GO	4.2

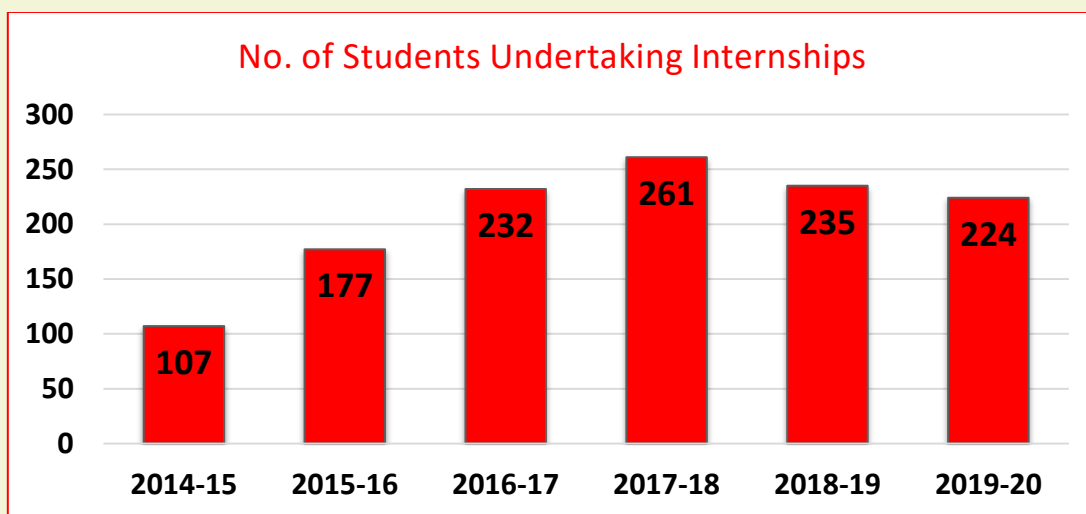
52	NAGA SRAVANTHI	178W5A0201	GO-SPEEDY-GO	4.2
53	NAGA CHAITANYA DURGA	178W5A0204	GO-SPEEDY-GO	4.2
54	MANIKANTA	168W1A0220	INSMARGO	2.5
55	SIRISHA RANI	168W1A0222	INSMARGO	2.5
56	SINDHU BHARGAVI	168W1A0225	INSMARGO	2.5
57	MAABUBEE	168W1A0248	INSMARGO	2.5
58	SAI PRIYANKA	168W1A0254	INSMARGO	2.5
59	PAVANI	168W1A0258	INSMARGO	2.5
60	SAI SREE LAKSHMI	168W1A0259	INSMARGO	2.5
61	ABDUL MATEEN	168W1A0260	INSMARGO	2.5
62	MOUNIKA	168W1A0264	INSMARGO	2.5
63	SRI KEERTHI	168W1A0275	INSMARGO	2.5
64	CHANDU	168W1A0295	INSMARGO	2.5
65	PUJITHA	168W1A02A0	INSMARGO	2.5
66	REVATHI SAI SREE LAKSHMI	168W1A02A4	INSMARGO	2.5
67	NAGA SAI LAKSHMI	168W1A02A9	INSMARGO	2.5
68	V.S.N.L. SAHITHI	168W1A02B2	INSMARGO	2.5
69	NAGA CHAITANYA DURGA	178W5A0204	INSMARGO	2.5
70	RUPADEVI	178W5A0222	INSMARGO	2.5
71	MAABUBEE	168W1A0248	IBM	4.25
72	NAGA CHAITANYA DURGA	178W5A0204	JUST DIAL	3
73	YAMINI	168W1A0239	FACE	2.88
74	PRAVEEN KUMAR	178W5A0207	NTT DATA	3.5
75	MANIKANTA	168W1A0286	AMARARAJA	3
76	SAMEER PASHA	168W1A0291	DXC	3.4
77	SRI HARSHA	168W1A0209	COGNIZANT (CTS)	4.1
78	HARISH	178W5A0220	COGNIZANT (CTS)	4.1
79	SASANK	168W1A0290	NUCLEUS	2.5
80	VENU GOPAL	168W1A0294	NUCLEUS SATELLITE	2.5
81	HARSHA VARDHAN	178W5A0208	NUCLEUS SATELLITE	2.5
82	SAIPAVAN	178W5A0211	NUCLEUS SATELLITE	2.5
83	KAVYA KEERTHANA	168W1A0223	QSPIDERS	3
84	CHANDU	168W1A0295	NALSOFT	4.5

STUDENT INTERNSHIPS

The students have to undergo internship of minimum 3 weeks duration in the industry approved by respective head of the department. This provides a system of education that formally integrates academic studies with related work experience.

The students also have an option to undergo six months industrial training/ internship in the 8th semester of the course (Applicable to the students who have completed CBCS Courses).

Industry	No. of students
SIEMENS	193
NPHSAT SYSTEMS PVT LTD	3 (online)
APSSDC	16 (online)
QWERTY THOUGHTS	1 (online)
COGNIBOT	3 (online)
SMARTBRIDGE EDUCATIONAL SERVICES PRIVATE LIMITED	2 (online)
EV RETRON ENERGIES PVT LTD	1 (online)



STUDENT ACHIEVEMENTS

Name of the Student(s)	Year	Event With organizer details	Paper / Project title	Prize won
Y. Bindu Priyanka, M. Manaswini	IV/IV	ICSESEV-2020, EEE, VRSEC VIJAYAWADA JAN 2020	Load Monitoring and Control of Alternator using PLC and SCADA	BEST PAPER
D.S.V.S. Harsha Vardhan	II/IV	AFOSEC, VRSEC, VIJAYAWADA FEB 2020	Just a Minute	FIRST
K. NagaSravani, SK. Tasleem S. Risitha, Dathri Sri	III/IV	Project Engineers Day, VRSEC, VIJAYAWADA	WASTER SEGREGATION	FIRST
CH. SaiSneha, J. Meghana I. Meghana, N. Aishwarya	III/IV	Project Engineers Day, VRSEC, VIJAYAWADA	SMART ATTENDANCE USING RFID	FIRST
M. Abhigna, N. Anurekha V. Jahnavi	II/IV	Project Engineers Day, VRSEC, VIJAYAWADA	SMART IRRIGATION SYSTEM BASED ON GSM	SECOND
P. Alekhya, A. Pallavi	III/IV	Project Engineers Day, VRSEC, VIJAYAWADA	AUTO BRAKING AND AUTO LIGHTING USING ARDUINO	SECOND
V.Rajesh, CH.Sunil R. Vara Prasad, M. Tejavardhan	II/IV	Project Engineers Day, VRSEC, VIJAYAWADA	VOICE CONTROLLED ROBOT CAR	THIRD
D.S.V.S. HarshaVardhan R. N.AjayBabu P. HarshaVardhan S. Vijaya Krishna	II/IV	Project Engineers Day, VRSEC, VIJAYAWADA	UNDERGROUND FAULT DETECTION	THIRD
N.S.V. Narayan	III/IV	SHASTRA-2020 IIT MADRAS, JAN 2020	PUZZLE CHAMP	FIRST
N. NagaSrinivas	III/IV	SHASTRA-2020 IIT MADRAS JAN 2020	PUZZLE CHAMP	FIRST
D. SaiTeja	III/IV	SHASTRA-2020 IIT MADRAS JAN 2020	PUZZLE CHAMP	FIRST
N. Naga Srinivas	III/IV	VALIANT-2K19 VISHNU INSTIUTE OF TECHNOLOGYDEC 2019	MIND FIZZ-2.0	SECOND
N.S.V. Narayan	III/IV	VALIANT-2K19 VISHNU INSTIUTE OF TECH., DEC 2019	MIND FIZZ-2.0	SECOND



ENGINEERS DAY

Engineers play a very significant role in every walk of our lives. They convert the theoretical knowledge of basic sciences into actual products and thus make our lives easy. Engineers possess versatile minds and help in filling the gap between science, technology, and the community. Engineers in India contribute greatly to the nation's technological and industrial growth. This event is planned to create awareness to students and faculties on Role of engineers in the development of our Nation. Engineering is not merely known 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 students showed their participation in the event. The faculty and students put up lot of efforts to developed 33 hardware projects and exhibited in different fields of electrical and electronics engineering on innovation day 2019.

To evaluate the working models exhibited by the students an external expert from the industry Er. K. Sumanth, Incharge R&D of Eruvaka Technologies, Vijayawada was invited. Upon thoroughly verifying the working models the evaluator appreciated the efforts put up by the students as well as faculty and given suggestions to students wherever needed. To encourage the students the college has awarded total cash prizes of Rs. 10,000/- for best working models in the department level.

List of Projects developed For Engineers day-2019

S.No	STUDENT DETAILS	NAME OF PROJECT
1	188W1A0273 D. ANUSHA	FAN REGULATION BASED ON TEMPERATURE
	188W1A0291 M. DHARANI SRI SAI	
	188W1A0294 M. ABHISHIKTHA	
2	178W1A0278-J. AVINASH	POWER THEFT DETECTION
	178W1A0280-K. GOVARDHAN	
	178W1A02A4-G. SATYA SRI RAM	
3	178W1A0209-D. HEMANTH RAJ	PARENTAL ASSISTANCE FOR ORPHANS

	178W1A0228-K. SIVA SAI	
4	178W1A0208 – CH.SAI SNEHA	SMART ATTENDANCE USING RFID
	178W1A0242 – P. EESHITA	
	178W1A0219 – I. MEGHANA	
	178W1A0227 – I. AISHWARYA	
5	178W1A0268 – B. RISHITA	MOBILE CHARGING CONTROLLER
	178W1A0274 – G. MOUNICA	
6	188W1A0226 L. YAMINI	WIRELESS BIOMETRIC LOCK
	188W1A0201 A. KANCHANA	
	188W1A0216 G. KAVYA	
7	188W1A0235 M. ABHIGNA	SMART IRRIGATION SYSTEM BASED ON GSM
	188W1A0299 N. ANUREKHA	
	188W1A0254 V. JAHNAVI	
8	188W5A0202 – CH. KAVYA SRI	OVER VOLTAGE AND UNDER VOLTAGE RELAY USING MICROCONTROLLER
	188W5A0210 – O. SATYA	
	178W1A0213 - G. YAMINI	
	178W1A0206 – B. HARIKA	
9	188W1A0236 N. KEERTHI	AUTOMATIC FIRE EXTINGUISHER
	188W1A0256 V. SOWMYA	
10	178W1A0201 – P. ALEKHYA	AUTO BRAKING AND AUTO LIGHTING USING ARDUINO
11	188W5A0222 – P. VIJAYA KUMARI	VOICE BASED HOME AUTOMATION
	188W5A0221 – M. MANJULA	
	188W5A0225 – V. PRIYANKA	
	188W5A0216 – J. GAYATRI	
12	18W1A0266-D. MOULI	MATLAB ARDUINO INTERFACE USING IOT
13	188W1A0262- B. DAYA SAGER	SECURITY FOUR IN ONE
14	188W1A0229 M. JEMIMA RAJ	SMART PHONE CONTROLLED NODEMCU (ESP8266) 4WD WIFI ROBOTIC CAR
	188W1A0248 G. SAJITHA	
	188W1A0218K. YAMINI	
15	178W1A0202 – A. GEETHA	AUTO IRRIGATION
	178W1A0248 – P. SAI LALITYA SIVANI	
16	188W1A0276 LAKSHYA	SOLAR TRACKING SYSTEM
	188W1A02A6 AKSHITHA	
	188W1A02A9 RUCHITA	
	188W1A02B3 ROHINI	
17	188W1A0257 V.V.S. SRIYA	TOUCH DIMMER SWITCH
	188W1A0208 CH. PRAVALLIKA	
18	188W5A0201 – B. SANDHYA	REAL TIME MONITORING OF LPG
	188W5A0203 – G. RACHEL	
	178W1A0217-B HARITHA SHRI	
19	178W1A0224 – K. VARMA	BASED HOME AUTOMATION.
	178W1A0233 - K. PRANEETH	DESIGN OF ENCRYPTED COMMUNICATION PROTOCOL IN IOT
	178W1A0259 – Y. CHAITANYA	

	178W1A0260 Y. HEMANTH	
20	188W1A0220 K. SANDHYA RANI	AURDINO SMART BLIND STICK
	188W1A0252 T. SAISOWMYA	
	188W1A0249 R. RAJITHA	
21	178W1A0231 K. HAREESH	THEFT PROTECTION
	178W1A0234 D. KRISHNA PRASAD	
22	188W1A0255 V. RAJESH	VOICE CONTROL ROBOT CAR
	188W1A0209 CH. SUNIL	
	188W1A0245 R. VARA PRASAD	
	188W1A0232 M. TEJAVARDHAN	
23	188W5A0214 – D. VAMSI	POWER MONITORING AND SMART CONTROL USING IOT
	188W5A0218 – K. SRINIVASA REDDY	
	178W1A0267 – B. NAGARAJU	
	178W1A0272 – D. SRI HARSHA	
24	168W1A0285-M. MANASWINI	LOAD MOINTORING AND CONTROL OF ALTERNATORS USING PLC AND SCADA
	178W5A0224-Y. BINDU PRIYANAKA	
25	178W1A02A0-P. SREE KANTH	DOT MATRIX BASED DISPLAY BOARD
	188W5A0223-SK. P. JILANIBASHA	
26	178W1A0263- A. ANAND BABU	IOT BASED OPENING CEREMONY FOR ENGINEERS DAY
	178W1A0273-E. TANUJA	
27	188W1A0260- A. VIJAY GOPI KRISHNA	DHT SENSOR INTERFACING WITH NODEMCU AND THINGS SPEAK
	188W1A0265- B. GIRIJA HEMA SUNDAR	
28	188W1A0270- CH. NAGA SIVA SAI	HOME SECURITY USING IOT
	188W1A0287 - K. MARUTHI	
	188W1A0286- K. TARUN	
29	188W1A0203 --A. RAGHU RAM	SELF BALANCING OF A ROBOT
	188W1A0243-- R. BHARATH CHAND	
	188W1A0247 S. GOPI KRISHNA	
	188W1A0224L. ANIT KUMAR	
30	178W1A02A8 – SHAIK. TASLEEM	BREATH ANALYSER HELMET
	178W1A02B2 – S. RISITHA	
	178W1A0264 – A. HARIKA	
	178W1A0283 – K. RAMYA	
31	178W1A0287 – K. NAGA SRAVANI	WASTER SAGREGATION
	178W1A02A8 – SHAIK. TASLEEM	
	178W1A02B2 – S. RISITHA	
	178W1A0297 – P. DATHRI SRI	
32	198W1A0213 HARSHA VARDHAN	UNDERGROUND FAULT
	198W1A0214 VIJAY	
	188W1A02B2 AJAY	
	D. HARSHA 188W1A0271	
33	168W1A0240-P. DHARMALINGESWAR	AUTOMATIC PHASE SEQUENCE INDICATOR AND CORRECTOR
	168W1A0254- T. SAI PRIYANAKA	
	178W5A0209- N. RAMESH VERMA	



SMART PHONE CONTROLLED ROBOTIC CAR



AUTO IRRIGATION



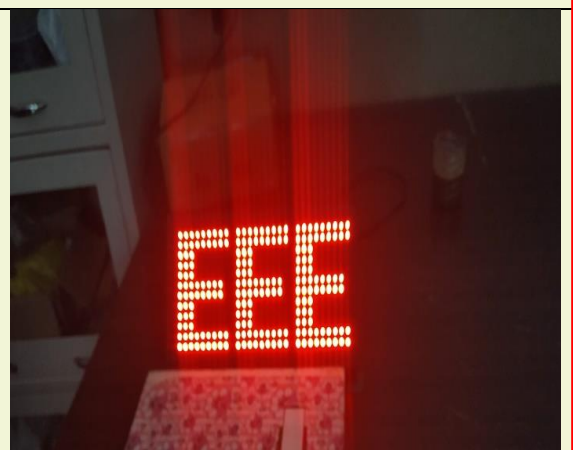
OVER VOLTAGE AND UNDER VOLTAGE
RELAY USING MICROCONTROLLER



FAN REGULATION BASED ON
TEMPERATURE



AUTO BRAKING AND AUTO LIGHTING
USING ARDUINO



LED DISPLAY

ENGINEERS DAY



SMART ATTENDANCE USING RFID



SOLAR TRACKING SYSTEM



POWER THEFT DETECTION



TOUCH DIMMER SWITCH



PARENTAL ASSISTANCE FOR ORPHANS



SECURITY FOUR IN ONE

INTERNATIONAL CONFERENCE

- *An International Conference on Smart Energy Systems and Electric Vehicles (ICSESEV-2020) was conducted by the department during Jan 8th-10th, 2020.*



- *A Tutorial session was conducted as pre-conference activity by the department faculty on “FPGA CONTROLLERS FOR POWER ELECTRONIC APPLICATIONS” On 8th January 2020 in association with APPLY VOLT, Vijayawada. This tutorial session will provide participants with precise theoretical and practical up to date exposition of FPGA controllers in generating the gate pulses for power electronic switches.*




- In this conference totally 6 keynote speeches were arranged covering the research topics in the domain of Smart Energy Systems and Electric Vehicles.
- The details of speakers are,
 1. Dr. P. Roshan Kumar
Subject matter expert in power train, Microfuzzy, Germany
 2. Dr. P. Jagadeesh
 3. Institute of sustainable Energy, Head, Center for Power System Research, Malaysia





HARDWARE PROJECTS AND MODEL DEVELOPMENT

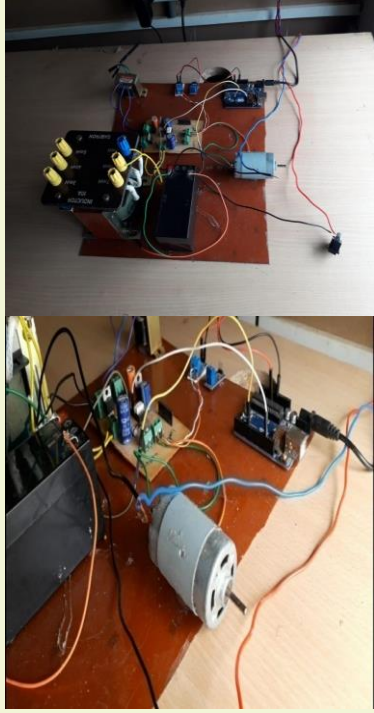

DETAILS OF INNOVATIVE PROJECTS


TITLE OF THE PROJECT	DESCRIPTION	PROJECT MEMBERS	GUIDE
<p>DIGITAL VOLT METER</p> 	<p>A digital panel meter which measures supply voltage and display the value on seven segment display modules. The device works using PIC16F676 microcontroller which has inbuilt I/O ports and ADC. The sampling of voltage is done by using potential divider and the supply for the display modules as well as microcontroller will be the voltage to be measured itself. The programming and debugging is done in MPLAB IDE. Multiplexing technique is used to minimize the number of pins required.</p>	<ul style="list-style-type: none"> • Dr. N. VAMSI KRISHNA • Mr. CH. S.V. S.PHANI KUMAR 	<p>Mr. P. RAVI PRASAD</p>
<p>DIGITAL FREQUENCY METER</p> 	<p>A digital frequency meter is a general purpose basic digital counter used for measuring, setting, monitoring frequencies for counting random events. It is also used for industrial counting applications such as Test, adjustment and calibration of oscillators etc. In this project, a digital frequency meter was designed and fabricated by using PIC 16F676. The output of frequency meter is displayed using 7- segment LED display modules. The input signal is converted to pulses using an opamp and the pulses are counted using microcontroller and equivalent decimal value is displayed.</p>	<ul style="list-style-type: none"> • D. LIKHITHA • K. USHASREE 	<p>Dr. N. VAMSI KRISHNA</p>

TITLE OF THE PROJECT	DESCRIPTION	PROJECT MEMBERS	GUIDE
<p>MICROCONTROLLER BASED PHASE SEQUENCE DETECTION AND CORRECTING DEVICE FOR ON-LOAD TAP CHANGER</p>	<p>In case if the phase sequence of the grid supply (APSPDCL) is changed, the regulatory action of automatic tap changer becomes supportive/problematic. If the phase sequence of incoming line is changed due to maintenance then the direction of rotation of motor is opposite to desired direction so that the voltage across load will not be a rated voltage. So, an attempt is made in this project to design a circuit to identify and correct the phase sequence .Due to this, the induction motor rotates in correct direction in order to get the rated voltage across the load. Even though it is being used for transformer but it ca also be used for other appliances for phase sequence correction</p>	<ul style="list-style-type: none"> • P. DHARMA LINGESWAR • N.RAMESH • T.SAI PRIYANKA 	<p>Dr.P.V.R.L. NARASIMHAM Mr. A. HARIPRASAD</p>
<p>Design and implementation of a photovoltaic I-V curve tracer</p> 	<p>Solar module characterization under real operating conditions. Plots I-V characteristics of the solar cell by using arduino and the I-V plots are plotted by using MegunoLink software. In power electronics circuits different power switching devices are using to convert power. The mostly using switching devices are SCR, MOSFETs and IGBTs, to operate switching device a gate signal must be applied across the gate and the source terminals. Output voltage of the controlling circuit is not high enough to trigger switching devices. In order to amplify output voltage of the controlling circuit amplifier circuits are used. Different switching devices need different voltage levels. In this project we developed a one Gate firing circuit to drive the switching devices. The same circuit is useful to drive for different rating of gate voltages of different switching devices.</p>	<p>M V Rajesh, UG Student, EEE, VRSEC</p>	<p>Dr. M. Siva Rama Krishna, Assistant Professor, EEE,</p>

TITLE OF THE PROJECT	DESCRIPTION	PROJECT MEMBERS	GUIDE
<p data-bbox="201 235 560 315">GATE FIRING CIRCUIT TO DRIVE POWER SWITCHES</p> 	<p data-bbox="596 206 978 1003">In power electronics circuits different power switching devices are using to convert power. The mostly using switching devices are SCR, MOSFETs and IGBTs, to operate switching device a gate signal must be applied across the gate and the source terminals. Output voltage of the controlling circuit is not high enough to trigger switching devices. In order to amplify output voltage of the controlling circuit amplifier circuits are used. Different switching devices need different voltage levels. In this project we developed a one Gate firing circuit to drive the switching devices. The same circuit is useful to drive for different rating of gate voltages of different switching devices.</p>	<p data-bbox="1003 206 1190 367">R Madhusudhana Rao Assistant Professor, EEE</p>	
<p data-bbox="193 1014 512 1111">• SEMINAR HALLS AUTOMATION USING RASPBERRY PI</p>  	<p data-bbox="596 1014 978 2016">Now a day to organize a seminar at least 1 or 2 technicians are required for to turn ON/OFF/adjust the equipment in the hall and to change the slides. But sometimes they are not available or busy with their works, which results in delays in seminars and loss of electrical energy. To overcome all these complexities a digital assistant is needed. The main aim of this project is to develop an economically effective and performance wise efficient digital assistant for Seminar Halls (D.A.S.H) using Raspberry Pi for seminar halls based on the concepts of Natural Language Processing and Artificial Intelligence. It can control electrical equipment like lights, fans and projector, and also controls the presentation slides by voice commands or input from a touch screen or an infrared remote. This device makes conduction of seminars easy.</p>	<p data-bbox="1003 1014 1206 1451">• VENKATA RAJESH MURALA, • YERRAMSET TI JASWANTH, • KALAGARA V V R S VISHNU, • THEJAVATH U THIRUMALA RAO.</p>	<p data-bbox="1241 1014 1401 1240">Dr. B Venkateswar a Rao Associate Professor, Dept of EEE.</p>

TITLE OF THE PROJECT	DESCRIPTION	PROJECT MEMBERS	GUIDE
<p>• AC POWER SAVER</p>  <p>The image shows a project display board for an 'AC POWER SAVER'. At the top, it says 'Department of ELECTRICAL & ELECTRONICS ENGINEERING' and 'Patent Application No. 2014104222A'. Below this is a digital display showing '88.88' with 'max' and 'min' labels. To the left of the display is a vertical switch with 'ON' at the top and 'OFF' at the bottom. At the bottom of the board, the text 'AC POWER SAVER' is written in a blue oval.</p>	<p>The Induction motor is used in compressor of Air Conditioner, it draws 2 to 3 times rated current during starting condition. The control unit in Air Conditioner turns OFF the Compressor when room temperature reaches set value by the user and it will ON after one degree change in temperature. so this ON and OFF processes repeats many times so Induction motor consumed more power. In order to save the power consumption AC Power Saver device developed. In this device user can set minimum and maximum temperature setting. So the number of ON and OFF periods of the compressor decreased and power consumptions decreases</p>	<p>Mr. A Hari Prasad</p>	<p>Mr. A Hari Prasad</p>
<p>Low cost luggage transport Tricycle</p>  <p>The image shows a group of five men standing behind a three-wheeled transport vehicle. The vehicle has a flatbed for carrying luggage and is being steered by a man in a pink shirt. They are outdoors in front of a building.</p>	<p>It is being used in the campus to carry diesel from petrol bunk to our campus power house (DG Sets available). It can carry weight up to one ton. Driver: BLDC drive of 750Watts Batteries : Lead Acid batteries with 12V, 24A – 4 Nos; It is built in the year of 2014. This project funded by SAGTE, Vijayawada</p>	<p>S. Sateesh Kumar</p>	<p>Dr. P.V.R.L. Narasimham HOD-EEE</p>

TITLE OF THE PROJECT	DESCRIPTION	PROJECT MEMBERS	GUIDE
<p data-bbox="188 208 520 271">Closed loop buck converter based Solar charger</p> 	<p data-bbox="595 208 979 943">This project presents the design of closed loop buck converter based solar charger which maintain output voltage of buck converter is constant with respect to the PV panel output fluctuations caused due to different climatic conditions. As output power of the solar panel depends on the irradiance and temperature. In this project battery is used so that the power required to the load can be fed from battery when the solar power is not sufficient during heavy cloud cover or at night. The battery can charges the excess energy produced during the periods of maximum productivity of PV panel, and discharges it when the productivity of PV panel drops.</p>	<p data-bbox="1002 208 1203 371">Sammeta Karthik Mohammad Sameer Pasha Uppuluri Saketh</p>	<p data-bbox="1241 208 1390 439">Sri.T.PURN ACHANDR A RAO, Assistant professor Department of EEE</p>
<p data-bbox="188 1025 520 1088">Automatic Street light timer controller</p> 	<p data-bbox="595 1025 979 1957">Astronomical timer is used for switching ON and OFF the lightning or other electrical receivers in accordance to Sunset and Sunrise with an option to program a night break, which means a temporary switching OFF of the street light load for savings purposes of electrical energy. These timers with both astronomic sun set and sunrise times automatically adjust to the seasonal day-to-night time changes throughout the year. On the basis of information about the current date and the geographical coordinates of its location, the astronomical timer automatically sets daily, scheduled points of lightning switching. The exact time of switch ON and OFF is determined on the basis of the calculation of the position of the sun relative to the horizon and the moment the lights go on and off is set independently</p>	<p data-bbox="1002 1025 1187 1189">R Madhusudhana Rao Assistant Professor, EEE</p>	
<p data-bbox="188 1968 488 2024">Gleaming of Lights by Pedaling using Arduino</p>	<p data-bbox="595 1968 979 2024">This project is intended to gleam the lights and visualize</p>	<p data-bbox="1002 1968 1203 2024">THEJAVATHU THIRUMALAR</p>	<p data-bbox="1241 1968 1394 2024">Dr B Venkateswar</p>

TITLE OF THE PROJECT	DESCRIPTION	PROJECT MEMBERS	GUIDE
	<p>the capacity of a person by his /her performance through pedaling. The idea behind this project is the game designed for urban community entertainment and fitness. The performer has been given a specified count within a span to pedal and such that if he/she fails at any cause the count display will be stopped and displays the performer level through a gleam of lights. The gleaming of lights works on the Arduino mega microcontroller and this is programmed using Arduino C- programming. The basic working of the system is based on the pedaling by the performer and this is captured by the sensor, thus resulting in the lights gleaming and matrix display displays the level. It is designed in such a way that an average person can pedal within the program specified span.</p>	<p>AO, KALAGARA V V R S VISHNU, YERRAMSETTI JASWANTH.</p>	<p>a Rao Associate Professor, Dept of EEE.</p>

INDUSTRIAL TOURS

S. No	Dates	Class	Name of the Industry	Local / Out side	Place(s)	Faculty visited along with student
1	7.08.2019 & 8.08.2019	3/4 B.Tech	Dr.N.T.T.P.S, Ibrahimpatnam	local	Ibrahimpatnam , Vijayawada	Smt.S.V.R.L. Kumari Smt J. Bhavani Sri N.Vamsi Krishna Sri V.Hari vamsi
2	8-08-2019 & 9-08-2019	2/4 B.Tech	Electric loco shed, Vijayawada	local	Vijayawada	Dr.J. Ramesh Dr. P. Chandra babu naidu Sri T.Purna Chandrarao Sri.R.Madhu sudhana Rao Dr. V B G Tilak Dr. S. Venu Sri S. N. V. S. K. Chaitanya A. Veera Reddy
3.	26-9-2019 & 27-9-2019	2/4 B.Tech	G.S. Electricals	local	New Autonagar ,kanuru,Vijayawada	Smt. S.V.R.L. Kumari Sri R Madhu sudhana rao Sri T.Purna Chandrarao Dr. P. Chandra babu naidu
4.	30-9-2019 & 1-9-2019	4/4 B.Tech	220Kv Substation& SCADA Center	local	Nunna	Smt.S.V.R.L. Kumari P. Venkatesh A. Hari Prasad K. Sai Teja
5	9-03-2020 & 10-03-2020	4/4 B.Tech	Soltek Photovoltex Private limited	local	NewAutonagar , kanuru,	Dr.G.Srinivasa Rao Sri T.suneel Sri R. MadhuSudhanaRao Sri K.srikanth Dr. M. Hareesh
6	10-3-2020 & 13-03-2020	3/4 B.Tech	“Avera new & Renewable Energy Moto Crop Tech Pvt Ltd” Nunna	Local	Nunna	Dr. B. Venkateswara Rao Sri S. V. R. Lakshmi Kumari Sri M. L. N. Vital Sri B. Varun Kumar
7	17-03-2020 & 18-03-2020	2/4 B.Tech	Kumar pumps & Motors	Local	Tenali	Dr. J. Ramesh Smt J.Bhavani Sri B. Varun Kumar Dr. L. Suresh Smt.S. V. R. Lakshmi Kumari Sri N. Vamsi Krishna



Industrial visit to **Dr. N.T.T.P.S**, Ibrahimpatnam, Vijayawada



Industrial visit to **Electric loco shed**, Vijayawada



Industrial visit to **220 kV substation and SCADA centre**, Nunna

STUDENT ONLINE COURSES

Sl. no	NAME	COURSE NAME	COURSE GRADE	TOTAL WEEKS
1.	DIBBAMADUGU POOJITHA	INTERNET HISTORY, TECHNOLOGY AND SECURITY	95.18	10
2.	EAGA BHARGAVA CHAKRAVARTHI	INTERNET HISTORY, TECHNOLOGY AND SECURITY	95	10
3.	JAVVAJI SRI RAMAKRISHNA	INTERNET HISTORY, TECHNOLOGY AND SECURITY	93	10
4.	KOMMU BHARATHI	INTERNET HISTORY, TECHNOLOGY AND SECURITY	94.23	10
5.	MUSUNURU PANCHA JANYA	INTERNET HISTORY, TECHNOLOGY AND SECURITY	95	10
6.	SARAKULA AKASH KRISHNA	SOLAR ENERGY	88	9
7.	INTURI SRI SASI KIRAN	PYTHON PROGRAMMING	94.04	11
8.	ADDAGATLA KANCHANA	SOLAR ENERGY	97	9
9.	AKUNURI AJAY KUMAR	SOLAR ENERGY	97	9
10.	ANNAM RAGHURAM	INTERNET HISTORY, TECHNOLOGY, AND SECURITY	97.64	10
11.	ARIGE BASAVA VEERA MOHANA RAO	INTERNET HISTORY, TECHNOLOGY AND SECURITY	94.19	10
12.	ARIKATLA VINEELA	INTERNET HISTORY, TECHNOLOGY AND SECURITY	96.7	10
13.	BAMMIDI UGANDHAR	INTERNET HISTORY, TECHNOLOGY AND SECURITY	95	10
14.	CHENNAVAJHALA PADMINI SREE LASYA	PYTHON PROGRAMMING	95	11
15.	CHERUKUNEEDI PRAVALLIKA	SOLAR ENERGY	93	9
16.	CHINTARALA SUNIL KUMAR	SOLAR ENERGY	92	9
17.	DAMMALAPATI YASASWI SAI	PYTHON PROGRAMMING	97.5	11
18.	GANTA YAMINI	INTERNET HISTORY, TECHNOLOGY, AND SECURITY	90.36	10
19.	GODITHALA SHIVA KRISHNA	NATURAL GAS	92	8
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22.	GUGULOTHU KAVYA	PYTHON PROGRAMMING	100	11
23.	JAYANTHI SRI SURYA AJAY KUMAR	INTERNET HISTORY, TECHNOLOGY, AND SECURITY	96.83	10
24.	KARRA YAMINI	INTERNET HISTORY, TECHNOLOGY AND SECURITY	93.8	10
25.	KAVYA RISHITHA GARLAPATI	PYTHON PROGRAMMING	100	11
26.	KETHIREDDY SANDHYA RANI	INTRODUCTION TO PROGRAMMING WITH MATLAB	100	9
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28.	KOLLI VENKATA SAI ANUDEEP	INTERNET HISTORY, TECHNOLOGY, AND SECURITY	94.34	10
29.	KOTA NIRANJAN RAO	INTERNET HISTORY, TECHNOLOGY,	94	10

		AND SECURITY		
30.	LENKA ANIT KUMAR	SOLAR ENERGY	96.4	9
31.	LINGAMSETTI TEJASWI	INTERNET HISTORY, TECHNOLOGY, AND SECURITY	91.51	10
32.	LOYA YAMINI DURGA	INTERNET HISTORY, TECHNOLOGY, AND SECURITY	98.19	10
33.	MAJJI PRASHANTH KUMAR	INTERNET HISTORY, TECHNOLOGY, AND SECURITY	96.16	10
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37.	MEKA VENKATA SIVA SAHITH	INTERNET HISTORY, TECHNOLOGY, AND SECURITY	96.16	10
38.	MEKALA TEJAVARDHAN	PYTHON PROGRAMMING	95.2	14
39.	MOHAMMAD JOHN SAIDA	INTERNET HISTORY, TECHNOLOGY, AND SECURITY	94	10
40.	MOHAMMAD MOUNIB BAIG SHAIK	INTERNET HISTORY, TECHNOLOGY, AND SECURITY	93.85	10
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60.	VANUKURU JAHNAVI	INTERNET HISTORY, TECHNOLOGY, AND SECURITY	91.96	10
61.	VATLURI RAJESH	INTERNET HISTORY, TECHNOLOGY, AND SECURITY	94	10
62.	VEJANDLA SOWMYA	INTERNET HISTORY, TECHNOLOGY, AND SECURITY	93.6	10
63.	VEMPATI VENKATA SAI	SOLAR ENERGY	90	9

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93.	KONGARA MARUTHI KUMAR	PYTHON PROGRAMMING	96	11
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96.	MADDUMALA GOPI CHAND	PYTHON PROGRAMMING	95	11
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102.	N. SYAM SAI KUMAR	INTERNET HISTORY, TECHNOLOGY AND SECURITY	94	10
103.	NAGIRIKANTI JASWANTHKUMAR	INTERNET OF THINGS	97	9
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STUDENT ARTICALS

TEACHER'S VOICE!!!

I teach and determine them to reach,
to every student's head.

Rolling like a fluffy ball of words,
and whirring those lessons for a lifetime.

I aspire my desk full of books,
should undertake your will-power to the next level.

And must make you the best,
in the rest of the world.

I always wish, my thoughts must give you enthusiasm,
to live life with kindness and empathy.

Trying to understand the people around you,
with a generous heart and an open mind.

I love to see you all chuckling,
cracking jokes and bursting into balls of laughter.
Earning friends and learning to stand for one another,
in between those silly talks and naive fights.

And someday, you may think about me to express your
gratitude,

However, there is no greater gratitude,
than the remembrance of a person.

Abhigna Mudigonda
188W1A023

ఈశ్వరా!

ఓంకారం జనియించే ఈశ్వరా
ప్రకృతి పులకించే ఈశ్వరా
వరాణము పోశావు ఈశ్వరా
మరణము శాసించే ఈశ్వరా
ఓంకారం నీవేర ఈశ్వరా
ప్రకృతి నీవేర ఈశ్వరా
సృష్టి కర్తవునీవే ఈశ్వరా
లయకార నీవేర ఈశ్వరా
నేను కద నీవు ఈశ్వరా
నీవె కదా నేను ఈశ్వరా
అమ్మైనా నీవె కద ఈశ్వరా
నాన్నైనా నీవె పరమేశ్వర
మేలుకొలిపావు ఈశ్వరా...
బుజ్జగించావు పరమేశ్వరా..
ఆడించి లాలించి ఈశ్వరా
నిద్రపుచ్చావు పరమేశ్వరా!
కాటి కాపరినీవు ఈశ్వరా
వేచిఉంటావు పరమేశ్వరా!
సృష్టి రహస్యము
నేడు ఈశ్వరా
తెలిసిందిరా పరమేశ్వరా
తెలిసిందిరా పరమేశ్వరా

- Shanmukha Vishnu
-188W5A0217, EEE, VRSEC

Dear karma,

I don't know what to write about you because I don't think I have enough experience in life to have a single opinion of you but this letter is to tell you that someone is thinking about you, trying to understand you at a deeper level.

Karma- for saints, you are inevitable. People should cross you to learn something in their lives and for scientists, you are just a hypothetical theory on a piece of paper. But coming to me, you were a disturbance to my mind, because, I can't stand firmly on either the side of saints or on the side of scientists. I'd always ended up thinking about you, literally overthinking about you. But I came to a conclusion recently. I don't know whether I stand on it in the future or not but currently, for me, you are just a choice people make either to learn from their lives or to escape from their lives because I think there's a lack of falsifiability to prove you. None can guess what you are? in which shape you appear?. So we tend to frame you as a way of our lives. Anyways, though I believe you aren't real, I am curious to see you in your true shape and learn more about you. I am waiting for you, hope you will reach me in your true color after reading this.

Yours sincerely,

Endless thinker

Abhigna Mudigonda

188W1A0236

OHM MY COUNDUCTOR!!!

There was a Bus Conductor, who was Very Rude to his passengers. One day, a Beautiful Young Girl tried to board the bus, but he didn't stop the bus. Unfortunately, the beautiful young girl came under the bus and died on the spot. Angry passengers took the conductor to the police station, who in turn took him to the court. The Judge was not at all impressed with him and gave him capital punishment. He was taken to the electrocution chamber. There was a single chair in the center of the room. The conductor was strapped to the chair and shock was given to him. But, to everyone's amazement, he survived. The judge decided to set him free, and he returned to his profession. A couple of months later, an elderly gentleman tried to board the bus. This time the Bus conductor, remembering his earlier experience stopped the bus. Unfortunately, the elderly gentleman slipped and died due to his injuries. The conductor was taken to the police station and then to the court, to the same judge. Though, he haven't done anything wrong, but considering his past record the judge decided to set an example and gave him capital punishment. The Bus conductor was again taken to the same electrocution chamber where there was a single chair in the centre of the room. He was strapped to the chair and shock was given to him. This time he died instantly.....!!!! . . The question is why didn't he die on the first occasion..?? but, died instantly the second time....?? Okay..... here is the Answer..... During the first time The Conductor was a Bad Conductor, therefore electricity didn't pass through him. But, during the second time, he was a Good Conductor, so electricity passed through him freely and he died !!!!

D.S.V.S. Harsha Vardhan

188W1A0271,

EEE B, 3/4 B. TECH

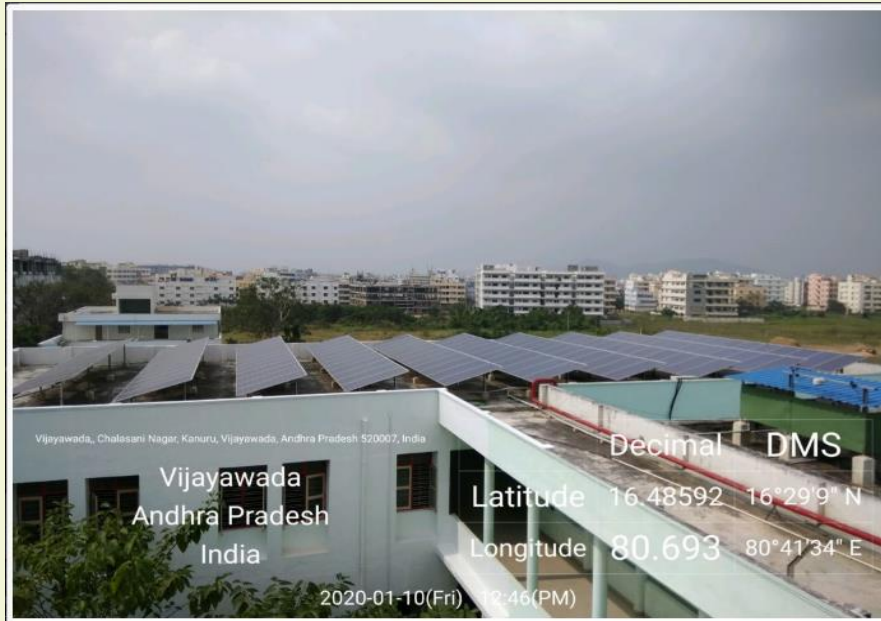
RENEWABLE ENERGY SOURCE



Solar Panels - Admin Office



Solar Panels - EEE Dept



Solar Panels – ME Dept



Solar Panels – S&H Dept



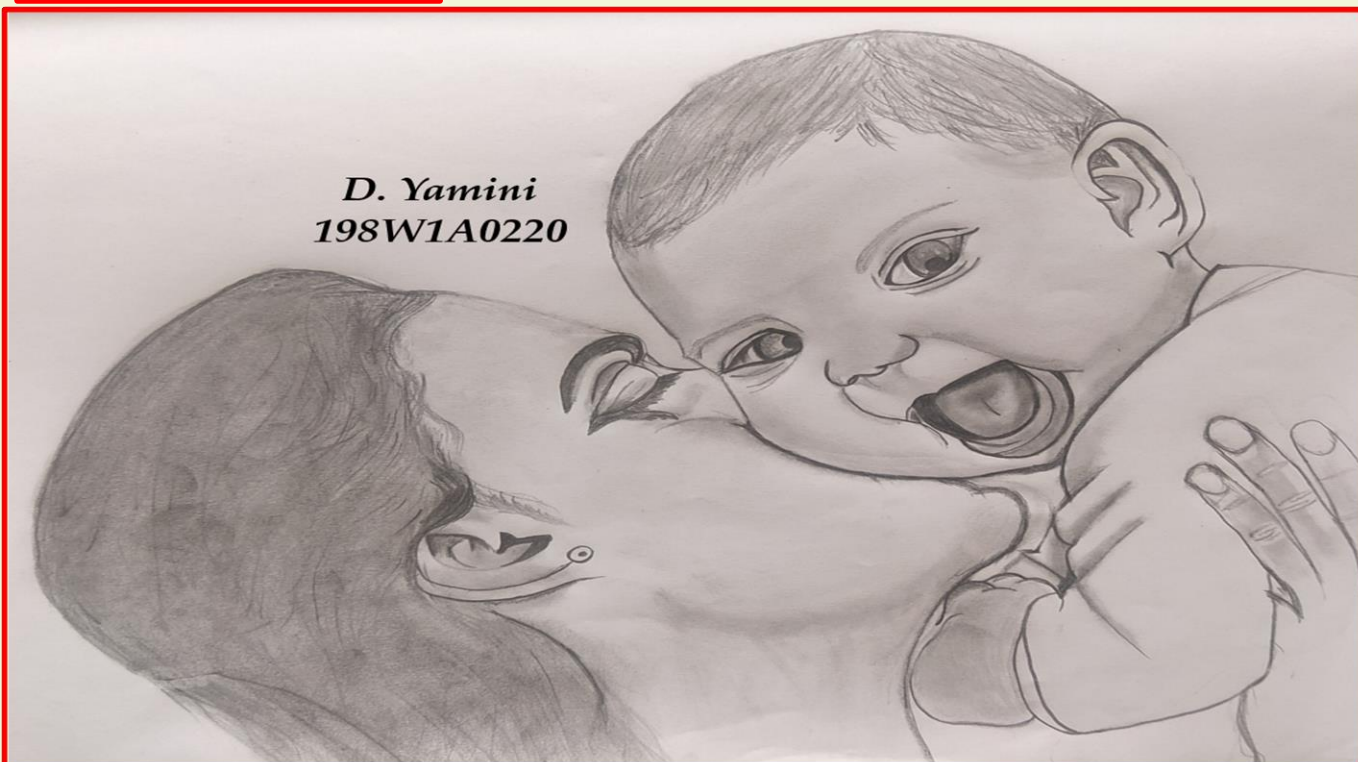
ART GALLERY



188W1A02A2
P. PRAVEENA



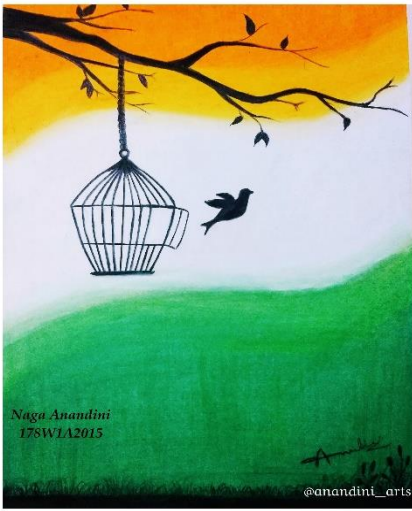
N. Nidhi
188W1A0237



D. Yamini
198W1A0220



188W1A02A2
P. PRAVEENA



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178W1A2015

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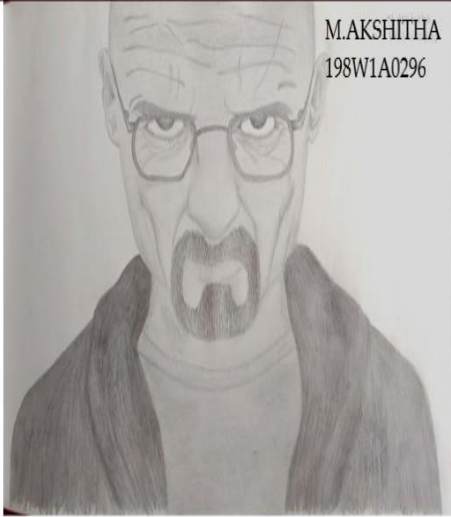
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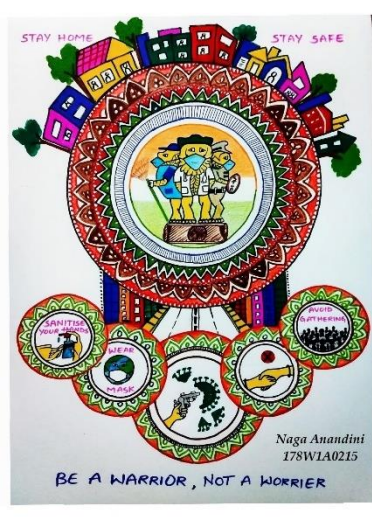
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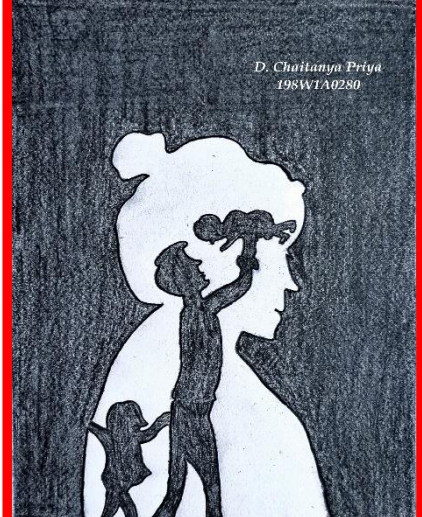
Naga Anandini
178W1A0215



MAKSHITHA
198W1A0296



Naga Anandini
178W1A0215

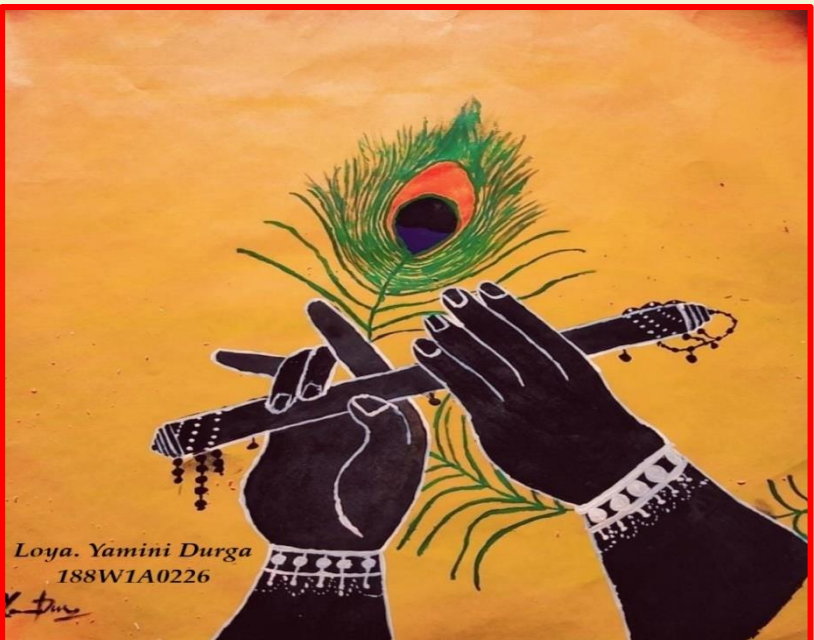


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198W1A0280

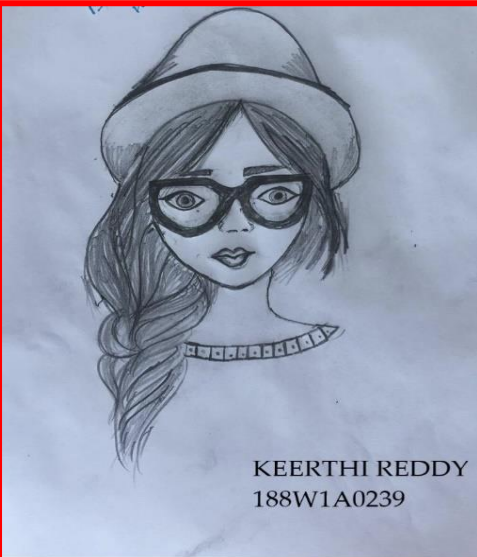


MOTHER
TERESA

p.kusuma
198W1A02A8



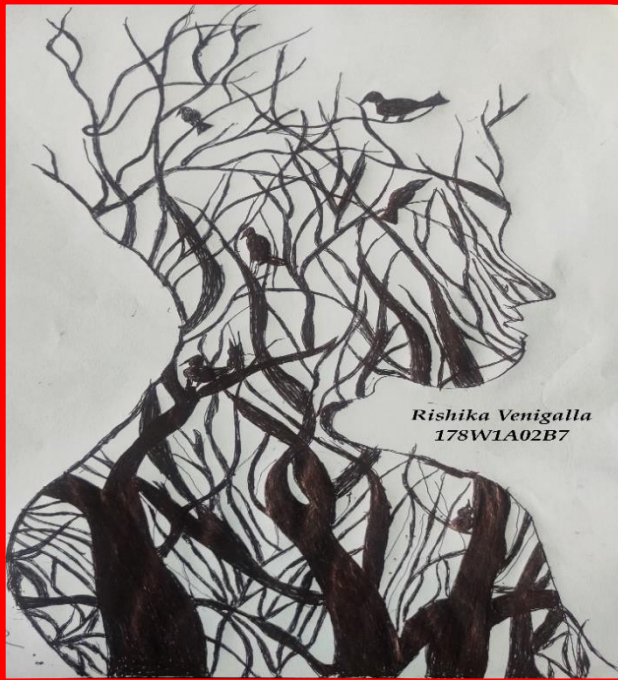
Loya. Yamini Durga
188W1A0226



KEERTHI REDDY
188W1A0239



M.VijayaLakshmi
198W1A0299



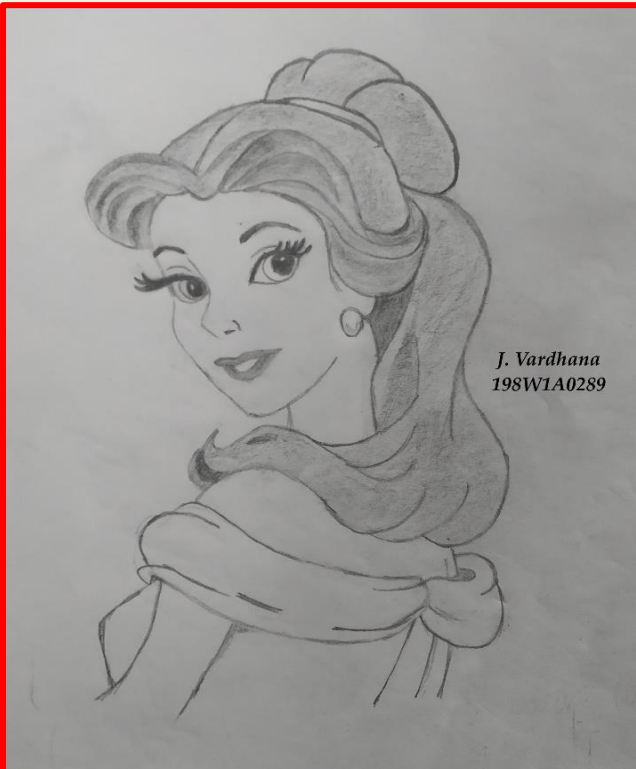
Rishika Venigalla
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M. Vijaya Lakshmi
198W1A0299



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198W1A0289

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