EEE MAGAZINE

2021-22

Department of Electrical & Electronics Engineering

Velagapudi Ramakrishna Siddhartha Engineering College
(Autonomous)
Kanuru, Vijayawada, A.P - 520007

CONTENTS

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

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 the bold and inspired vision of 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 132. 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 three Professors, four Associate Professors and twenty-one Assistant Professors with 12 Ph.D and fifteen M.Tech. 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 modelling, 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-five 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 7 years i.e., from 01-07-2015 to 30-06-2022.**

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

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

PEO2: Exhibit professionalism, ethical, attitude, communication skills, team work 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 analyze 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 analyze 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 2021-22. I hope that this would be an on-going 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 2021-22. 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	**Dr. J. RAMESH**	**Mr. P. VENKATESH**
PROFESSOR	**ASSOC. PROFESSOR**	**ASST. PROFESSOR**
CHIEF-EDITOR	**EDITOR**	**EDITOR**

FACULTY DETAILS

S.NO	NAME OF THE EMPLOYEE	DESIGNATION
1	Dr. P. V. R. L. NARASIMHAM	Prof. & HOD
2	Dr. A. RAMA DEVI	Professor
3	Dr. B. SRINIVASA RAO	Professor
4	Smt. S. V. R. L. KUMARI	Assoc. Prof.
5	Dr. G. SRINIVASA RAO	Assoc. Prof.
6	Dr. B. VENKATESWARA RAO	Assoc. Prof.
7	Dr. J. RAMESH	Assoc. Prof.
8	Dr. N. VAMSI KRISHNA	Sr. Asst. Prof
9	Sri. P. VENKATESH	Asst. Prof
10	Sri.S N V S K CHAITANYA	Asst. Prof
11	Sri.T. SUNEEL	Asst. Prof
12	Sri. M. L. N. VITAL	Asst. Prof
13	Sri. R. GIRIDHAR BALAKRISHNA	Asst. Prof
14	Sri. R. MADHUSUDHANA RAO	Asst. Prof
15	Sri. V. HARI VAMSI	Asst. Prof
16	Sri. T. PURNA CHANDRA RAO	Asst.Prof
18	Dr. A. VEERA REDDY	Asst. Prof
19	Dr. P. CHANDRA BABU NAIDU	Asst. Prof
20	Dr. ZAMEER AHMAD	Asst. Prof
21	Sri. K. SAI TEJA	Asst. Prof
22	Sri. P. SOWMITH	Asst. Prof
23	Dr. SUBHOJIT DAWN	Asst. Prof
24	Sri. V. RAVINDRANADH CHOWDARY	Asst. Prof
25	Sri. K. DHANANJAY RAO	Asst. Prof
26	Dr. A. NARENDRABABU	Asst. Prof
27	Ms. J. VIMALA KUMARI	Asst. Prof
28	Ms. G. MYTHILY	Asst. Prof

NON-TEACHING STAFF MEMBERS

S.NO	NAME OF THE EMPLOYEE	DESIGNATION
1	Sri. D. JAGANNADHAM	Mech.
2	Sri. S .SAI RAMU	Mech
3	Sri. N. RAJU	Mech
4	Sri. B .SUMAN	Jr. Mech
5	Sri. N .SRINIVAS	Jr. Mech
6	Sri. S. VEERASWAMY	Jr. Mech
7	Sri. V. NAGESWARA RAO	Jr. Mech
8	Sri. M. ANIL BABU	Jr. Mech
9	Sri. V. SUDHAKAR	Lab.Attender
10	Sri. V. V. RAMANA	Lab.Attender
11	Sri .D.SURYAKUMAR	Mech
12	Smt .Y.ANUSHA	Office Asst./DEO
13	Sri. D. VENKATESWARA RAO	Attender

BOARD OF STUDIES (BOS) MEMBERS

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

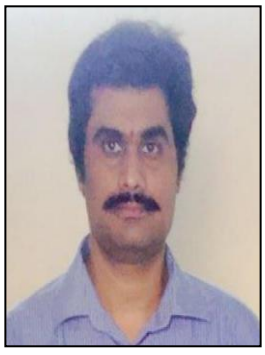
Members of BOS

Dr. Suryanarayana
Professor
Dept. of Energy Systems
IIT Bombay

Dr. K. Sivakumar
Associate Professor
Dept. of Electrical Engineering
IIT Hyderabad

Dr.K. Srikumar
Professor/HOD
Dept. of Electrical Engineering
JNTUK, Kakinada

Dr. H.V.S.S. Pavankumar
Assistant Professor
Dept. of Science and Engineering
IIT Bombay



Er.K.Rajasekar
Analog Design Engineer
Texas Instruments Pvt Ltd
C.V.Raman Nagar, Bangalore

DEPARTMENT ADVISORY BOARD (DAB)

- **Dr. P.V.R.L. Narasimham**, HOD-EEE department and Chairman, Department Advisory Board.

- **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. M.R.V.Rajesh,** SENIOR MANAGER (ELECTRICAL), RAIN CII Carbon Company, Visakhapatnam, representative from Industry – DAB Member.

- **Dr. P.Roshan Kumar**, Subject expert in Power Train, Micro fuzzy, Germany, representative from Industry – DAB Member.

- **Dr. B. Srinivasa Rao,** Professor, PG coordinator.

- **Dr. A. Rama Devi,** Professor, UG programme 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.	IIT Kharagpur	31/01/2020
9.	M/S Soltek Photovoltek Pvt. Ltd.-Vijayawada	February 2019
10.	M/S Imperial Society of Innovative Engineers (ISIE) India	13/05/2019
11.	M/S Panda Solar – Vijayawada	August 2019
12.	M/S Sarda Metals & Alloys Ltd – Vishakhapatnam	03/09/2019
13.	M/S AVERA Electric Vehicles(Bikes & Scooters)-Vijayawada	March 2020
14.	Plexim Gmbh Techno Switzerland	June 2020

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 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. In addition to that FPGA controller for PMSM, BLDC and SRM setup and rotary machine lab setup, 1.5HP slip ring IM, 3kVA, 4.2A alternator, 2.2kW, 4.4A squirrel case IM and 5HP, 400V DC universal motor also available.

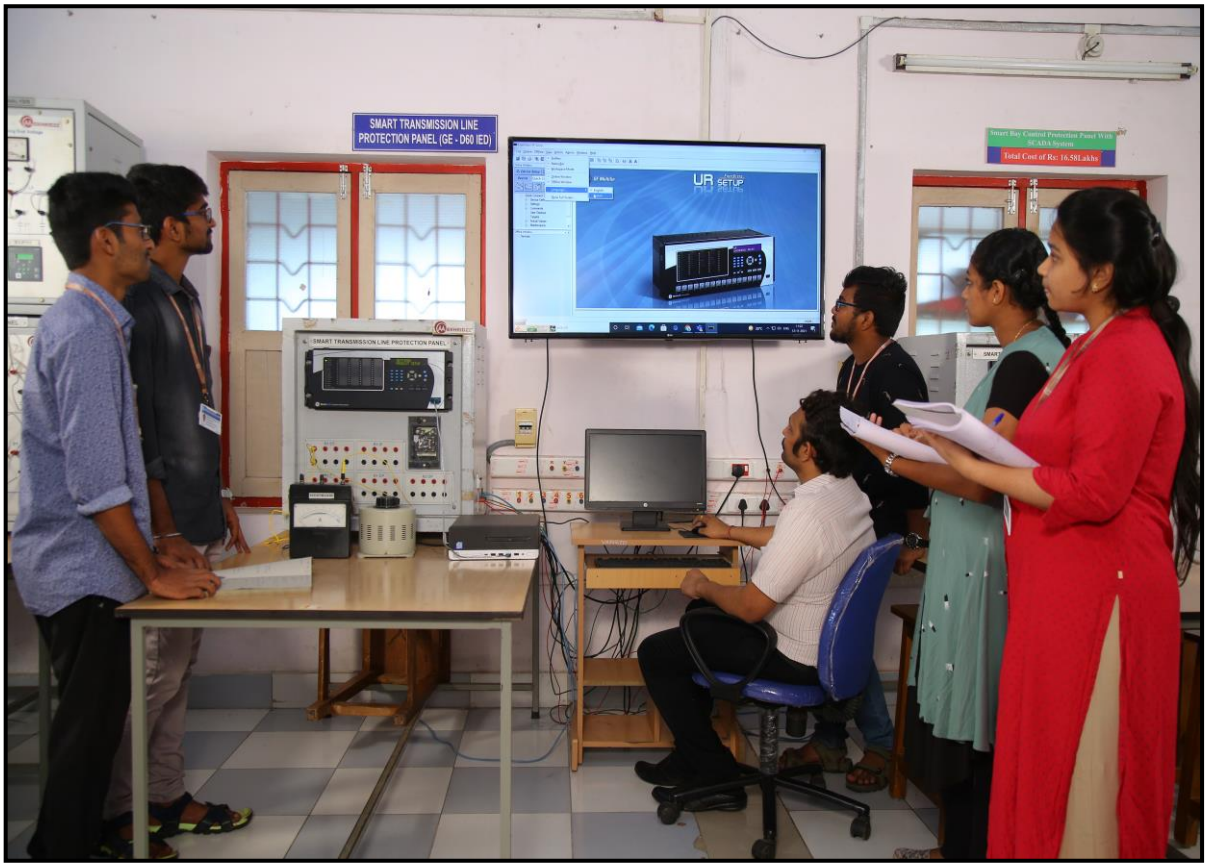
All the experimental panel boards are established with digital meters of our own make. All machines are set up in the laboratory with the facility of loading up to 125% of full load. The lab facilities are sufficient to conduct experiments as per the syllabus and beyond the syllabus. The lab also provides 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. The total cost of the equipment is around Rs. 46.85 lakhs.

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, and 55 Inch LED Television.

The laboratory houses GE make multiline IEDs D60, F650 numerical relays; ABB REJ-601 relays, other protection equipment like L&T make 650A Air Break circuit breaker with 1000A source, numerical transformer differential relay.



The laboratory has 220kV, 360km length transmission line model, AC network analyser and three 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. The total cost of the equipment is around Rs. 69.36 lakhs.

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), mixed domain oscilloscope MDO3034, Analogue discovery Kit-2, Earth resistance tester, Current transformer test set, Potential transformer test set, and Transformer oil test kit which are helpful even in research activity.The total cost of the equipment is around Rs. 18.55 lakhs.

4. CONTROL SYSTEMS LAB

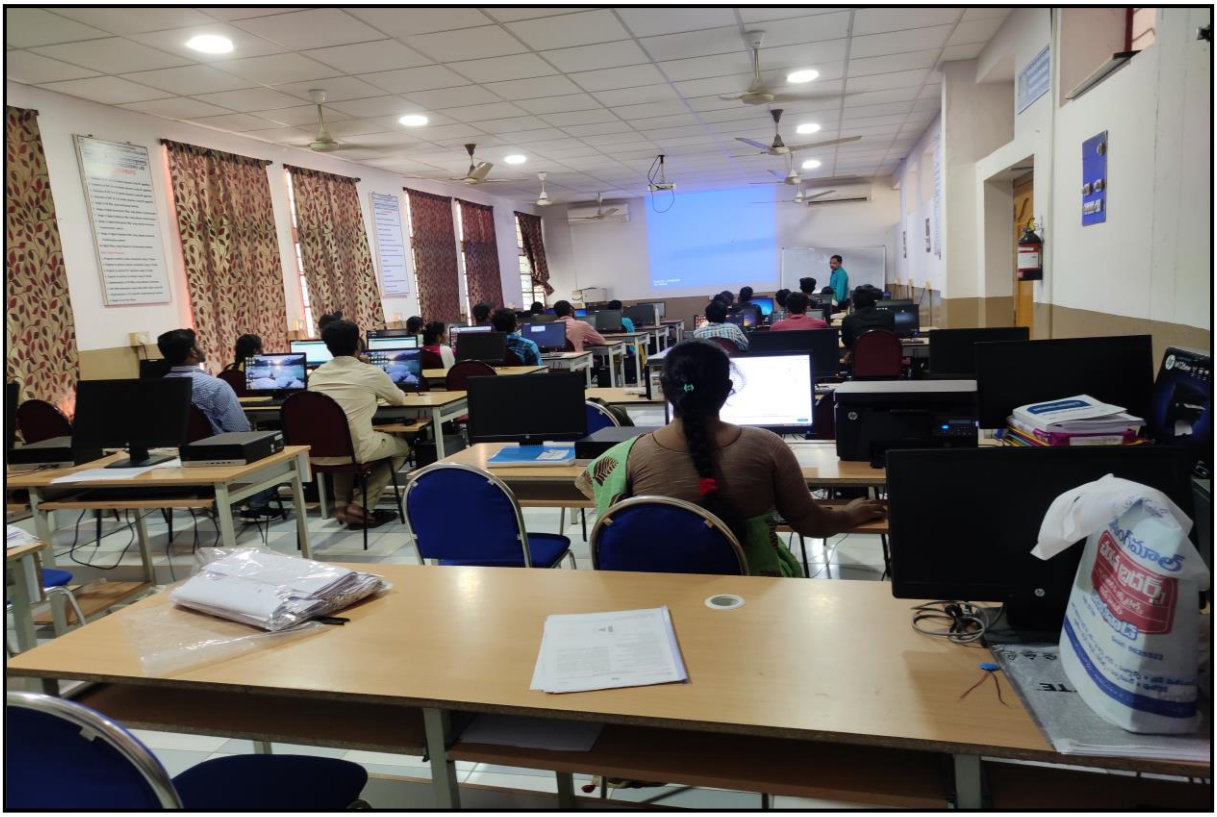
Control systems and microcontrollers laboratory helps the students in enhancing their knowledge and skills in different concepts of control systems like modelling control and design of systems. This includes hardware like PID controllers, Synchros, Compensators, 30 MHz Dual Trace CRO with triggering, Low voltage brushed DC Motor & stepper motor control kit and DC Generators etc.

The laboratory also houses personal computers 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 total cost of the equipment is around Rs. 20.86 lakhs.

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

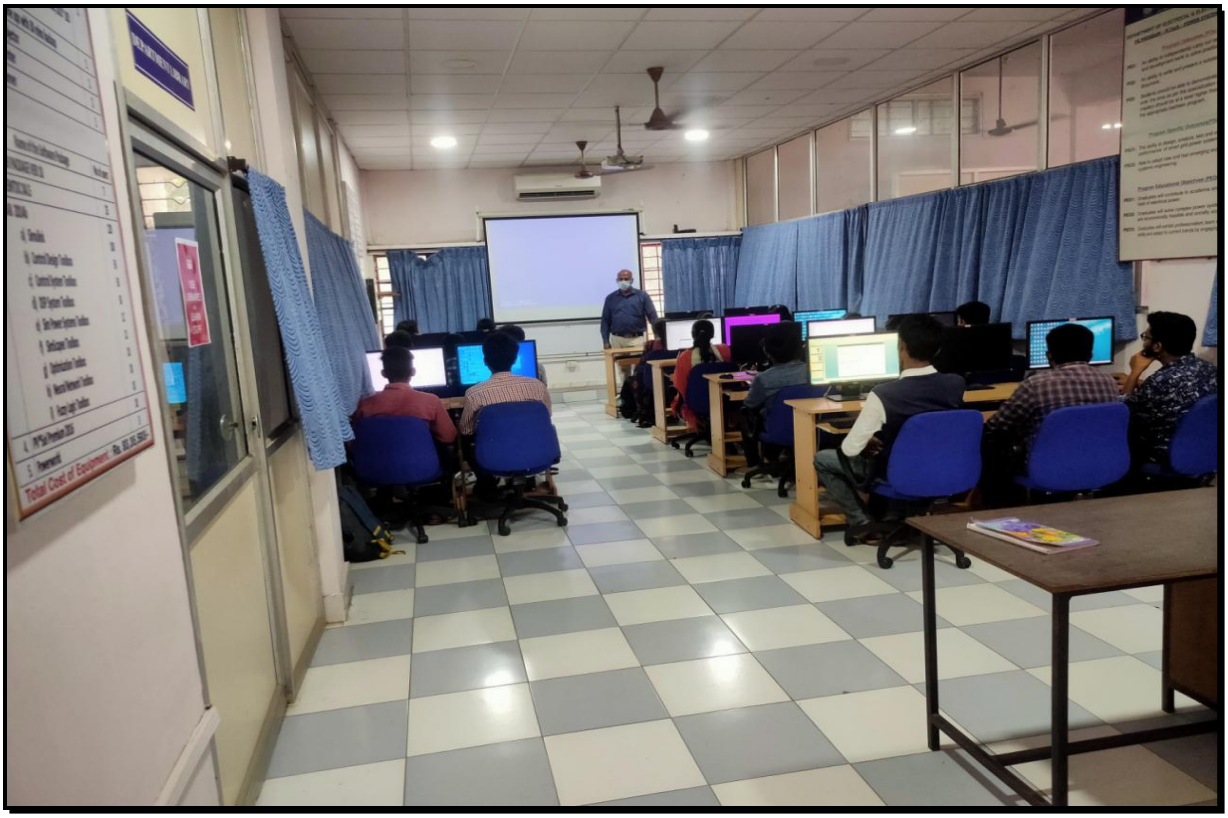
students of Electrical & Electronics Engineering.This laboratory is equipped with 45 desktop computers. The laboratory is fully air conditioned and provides printing and presentation facilities. The students of EEE branch perform programming related to numerical methods such as Bisection Method, Newton-Raphson 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. The total cost of the equipment is around Rs. 24.94 lakhs.



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 OPTIPLEX 5050 MT, I5 7^{TH} GEN, 8 GB DDR IV RAM, 1TB HDD, 22” LED Monitor, HP PROLIANT ML 350 GB Server, INTEL XEONES-2407(2.4GHZ/6CORE 112MB) Processor, 12 GB DDR III RAM HP 3*300 GB HDD, 18.5’’ LED Monitor, and DELL latitude 3590 laptops. 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, and PSPICE, MI-Power 9.1, PSCAD, PVSOL and Power World simulators. The total cost of the equipment is around Rs. 32.29 lakhs.



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, Basys3 FPGA Kits, Digilent Atlys Spartan 6 Fpga Kit, 24 switch inverter stacks, V/F ratio control of Induction motor drive, Programmable DC Power Supply and latest Digital storage oscilloscopes, are available in the lab. Also, Step Up/Down Chopper, Single Phase Fully Controlled Rectifier, Cyclo converter, Dual converter, H-Bridge Inverter, Three Phase PWM Inverter Drive are available.The power electronic lab provides an introduction to Power

Electronic circuits and its applications for the control of Power. The total cost of the equipment is around Rs. 20.69 lakhs.

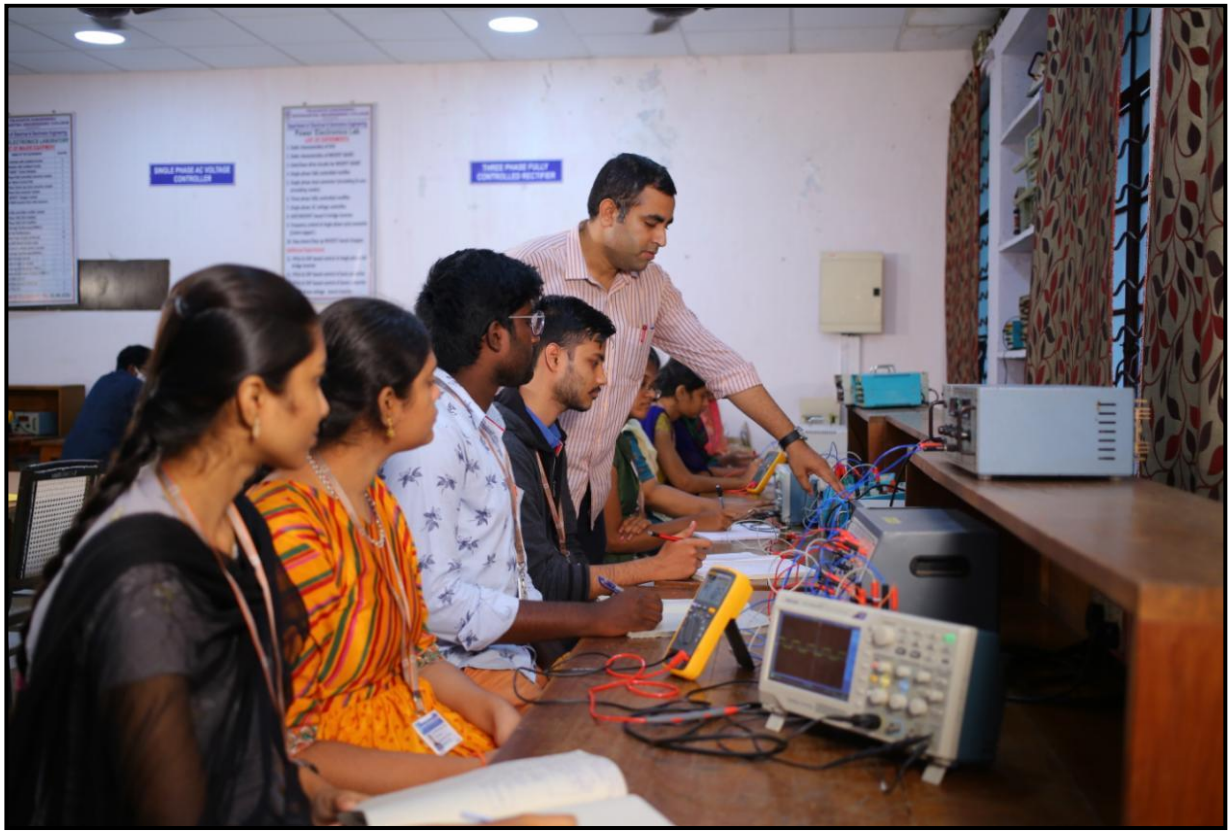
8. HIGH VOLTAGE ENHINEERING LABORATORY

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 100kV, 10/20kVA High voltage testing and measuring equipment, 140kV/10kVA HVDC unit, 280kV/460J Impulse generator (Two stage), 100 MHz Digital storage oscilloscope, 100 kV Motorized test vessel for vacuum & pressure testing with corona cage, and 100 kV enclosed sphere gap for liquid insulation breakdown test kit. The laboratory caters the needs of both UG and PG students. It has 3 units and one control panel. The total cost of the equipment is around Rs. 15.17 lakhs.


Measuring Equipment 100kV,10/20kVA
100pF
10 MΩ

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 is 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. This lab equipped with digital I.C. trainer kits, E. D. C. trainer kits, dual channel regulated power supply's, 30 MHz C.R.O's, function generators, and multi meters.The total cost of the equipment is around Rs. 8.81 lakhs.

10. 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 meters. Innovative and incubation centre is the place to develop hardware projects, 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.

11. DEPARTMENT LIBRARY

The department library has a stock of 890 volumes with 819 titles of books, has 816 volumes for UG and 74 volumes for PG students. Standard text books 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.

FDP/ WORKSHOPS/SEMINARS /GUEST LECTURES, ORGANIZED IN THE DEPARTMENT

1. One week national level online Short Term Training Program (STTP) -Phase-III

AICTE Sponsored
One Week National Level Online Short Term Training Program (STTP)
On
RECENT TRENDS AND CHALLENGES IN POWER MARKET WITH SMAT GRID TECHNOLOGY
20.9.2021 to 25.9.2021 (Phase-III)

The EEE department of V R Siddhartha Engineering College conducted One Week National Level Online Short Term Training Program (STTP) On **Recent Trends and Challenges in Power Market with Smart Grid Technology (Phase-III) from 20th – 25th Sept., 2021**. This STTP aims to discuss the recent trends and challenges in power market, the concept of smart grid and its advantages over conventional grid. This training program provides the knowledge to the participants on smart grid technologies and developments. It also imparts the information about overview of deregulated power market structure throughout the world.

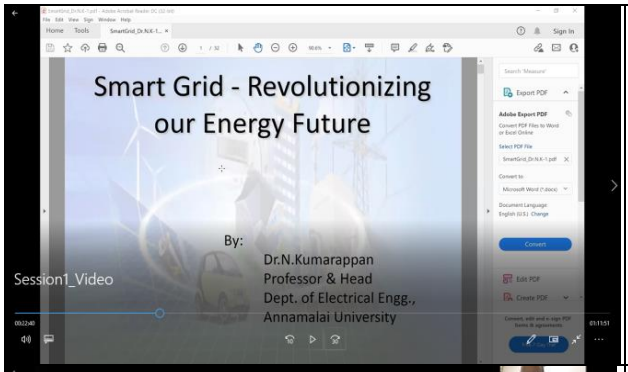
The inaugural function of STTP scheduled @ 9.00AM on 20-09-2021 (Monday) through virtual Mode: ZOOM Platform. The following esteemed personalities were present during the inauguration session of the programme:

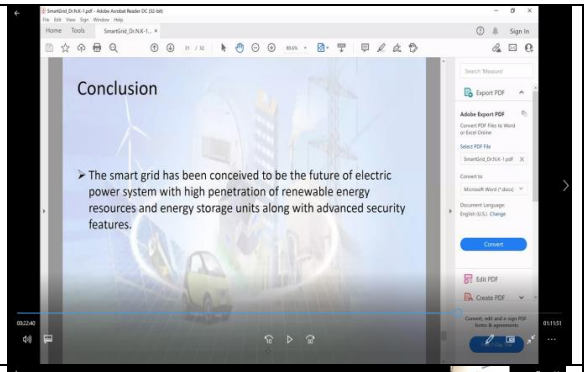
- **Dr. N. Kumarappan,** Professor, Annamalai University, Tamil Nadu
- Dr. P V R L Narasimham, Convener of STTP, Professor & HOD-EEE, VRSEC
- Dr. B. Srinivasa Rao, Coordinator of STTP & Professor in EEE, VRSEC
- Sri. K.Dhananjaya Rao. Assistant Professor, EEE Department, VRSEC

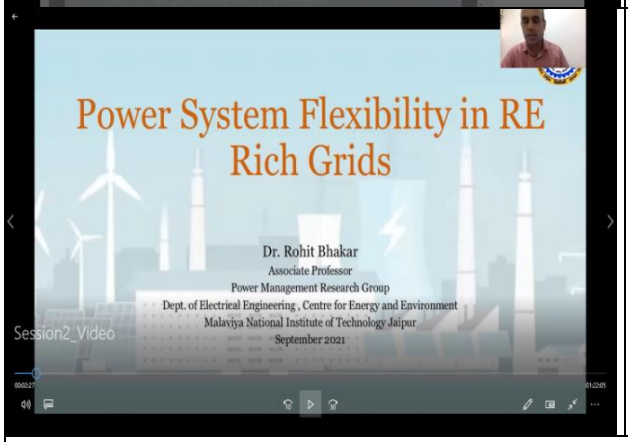
Objectives of STTP:

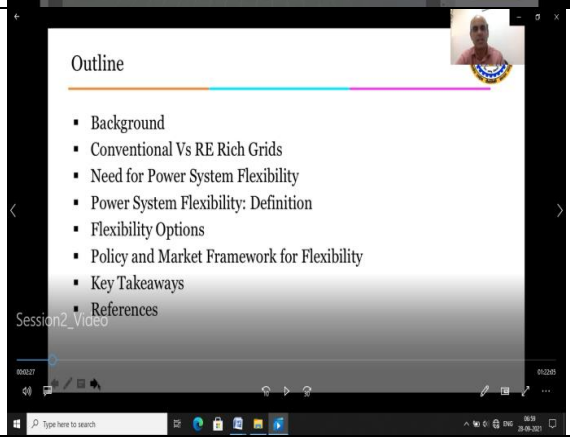
1. To understand concept of smart grid and its advantages over conventional grid
2. To know smart grid technologies and development
3. To understand the problems associated with integration renewable sources and its solution through smart grid.
4. To know smart metering techniques

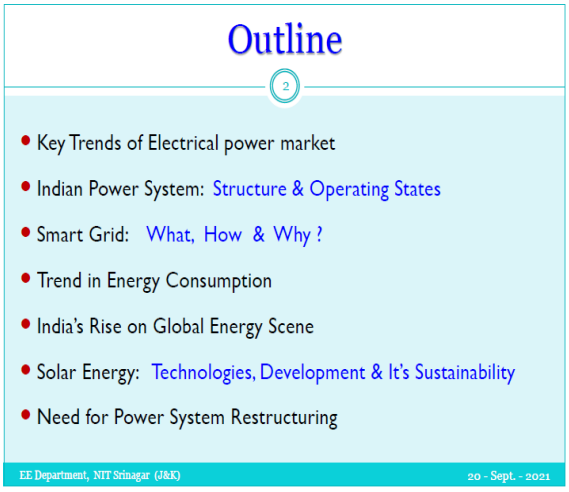
The participants also got insights of research opportunities in smart grid technology and challenges in Power Market with integration of renewable energy sources. This STTP was coordinated by Dr. B.Srinivasa Rao, Professor, EEE Department of VRSEC, and Vijayawada.











Finally, in last day afternoon a formal valedictory function conducted. There are total 63 participants have been attended various sessions of this one week STTP program (phase-III). The convenor conveyed thanks to all the participants and resource persons for their active participation in the STTP. The coordinator of the event acknowledged the director of AICTE STTP for sanctioning the program under FDP to VRSEC, EEE Department. An online test conducted and then issued the participation certificates for 40 participants who fulfilled the requirements of AICTE norms.

2. Online webinar on "Panel discussion on Innovation and Start-ups"

The department of Electrical and Electronics Engineering organized a webinar for B. Tech students of entire college on 21th August-2021, in association with Institution Innovation Council (IIC) of V R Siddhartha Engineering College. The details of the guest lecture are as follows:

Title: Panel discussion on Innovation and Start-ups with Students

Name of the resource person:

1) Dr. P.V.R.L Narasimham
   Professor and HOD, Department of EEE VRSEC, Vijayawada
2) Dr. Praveen Naidu
   Associate Professor, Department of ECE VRSEC, Vijayawada

Online platform: Google meet

The guest lecture was started by introducing about innovation and start-ups with different examples. Highlights of the Webinar: • Discussed about central government and state government start up policies. • Registration process of start-up • Steps to start start-up • Benefits of the start-up • Discussion on B 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, and PSPICE, MI-Power 9.1, PSCAD, PVSOL and Power World simulators Business plan • Commercialization of product and revenue generation aspects. • The panel also suggested students to carry the real-time problems existing in the society.

3. Programme for "National Energy Conservation week"

During National Energy Conservation week, the department of electrical and electronics engineering conducted an event on Energy Conservation which has been held on 15th December 2021. On this occasion, the presentation competition has been organized for the students of V R Siddhartha Engineering College, Vijayawada on the theme energy conservation. This event has been organised in association with Institution of Engineers (IE), India.

***Chief Guest*:**

Dr. P.V.R.L. Narasimham
Professor and HOD, EEE department
Convener and coordinator:
Dr. K.Dhananjay Rao
Assistant professor, EEE Department, VRSEC
Faculty In charge Institution of Engineers (IE), India.

Jury:
Dr.Balusu Srinivasa Rao
Professor, EEE Department, VRSEC
Dr.J.Ramesh
Associate Professor, EEE Department, VRSEC
Dr.A.Veera Reddy
Assistant Professor, EEE Department, VRSEC


At the end of the event, some of the faculty members delivered a speech about the importance of event and energy conservation. Finally, the convener of the event Dr.K.Dhananjay Rao declared the winners and he concluded the ceremony with vote of thanks.

4. Guest lecture on "Indian and USA Education System"

The department of Electrical and Electronics Engineering organized a guest lecture for 3rd year B. Tech EEE students on 24 December-2021, in association with the Siddhartha electric association (SEA). The details of the guest lecture are as follows:

Chief Guest:

Dr. PERLEKAR TAMTAM
Associate Professor, Wichita State University, USA

Other members

Dr. P.V. R. L. NARASIMHAM
Professor and HOD, EEE department, VRSEC

Dr. B. SRINIVASA RAO
Professor of EEE department, VRSEC

Dr. A. RAMADEVI
Associate Professor, EEE department, VRSEC

Smt. S. V. R. LAKSHMI KUMARI
Associate Professor of EEE department, VRSEC

***Convener and coordinator**:*

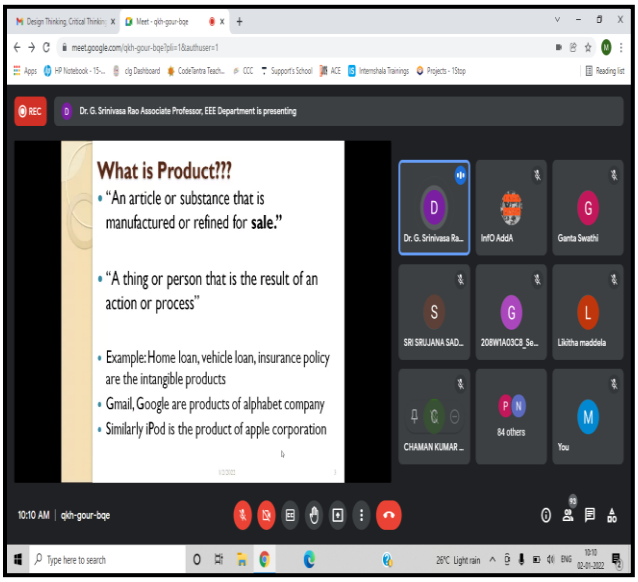
Dr. K. DHANANJAY RAO
Assistant Professor, EEE department, VRSEC

The coordinator of the program initiated the ceremony by inviting the chief guest, the faculty and the students. The chief guest (Alumni of EEE department, VRSEC) of the event Dr. Perlekar Tamtam started lecture by introducing about Wichita State University, USA.
Further, he explained the explained about Indian education system and USA education system. Also, he allowed the students to ask him some questions and he encouraged them by giving pen or pencil.

Subsequently, HOD of EEE department, VRSEC, Dr. P. V. R. L Narasimham, addressed the students and highlighted some important points from the lecture given by the guest. Then, chief guest brother, Mr. Sunder (Ex. Army personal) highlighted the importance of innovations done by engineering student to save their life at the line of control. With the help of a real life incident taken place in his life. i.e. the innovation made by an engineering student helped him to save his life and he also suggested students to do focus more on innovations. Finally talk was concluded by vote of thanks by coordinator Dr. K Dhananjay Rao, faculty in charge, SEA student chapter.

5. On line workshop on “Design Thinking, Critical Thinking and Innovation”

On 02.01.2022 the department of Electrical and Electronics Engineering organized an on line workshop on “Design Thinking, Critical Thinking and Innovation” under Institution Innovation Council (IIC) /EDC.



6. On line Seminar on “ROBOTICS”

On 25th January 2022, the department of Electrical and Electronics Engineering organized a seminar about Robotics. The chief guest **Mr.M.Surya Narayana,** shared his fascinating knowledge about ASTRO which is a newly designed and developed robot powered by Amazon. This event has been organized in collaboration with Institution of Engineers [IE], India.

Guest Speaker:

Mr.M.Surya Narayana
Director, Software
Amazon, USA.

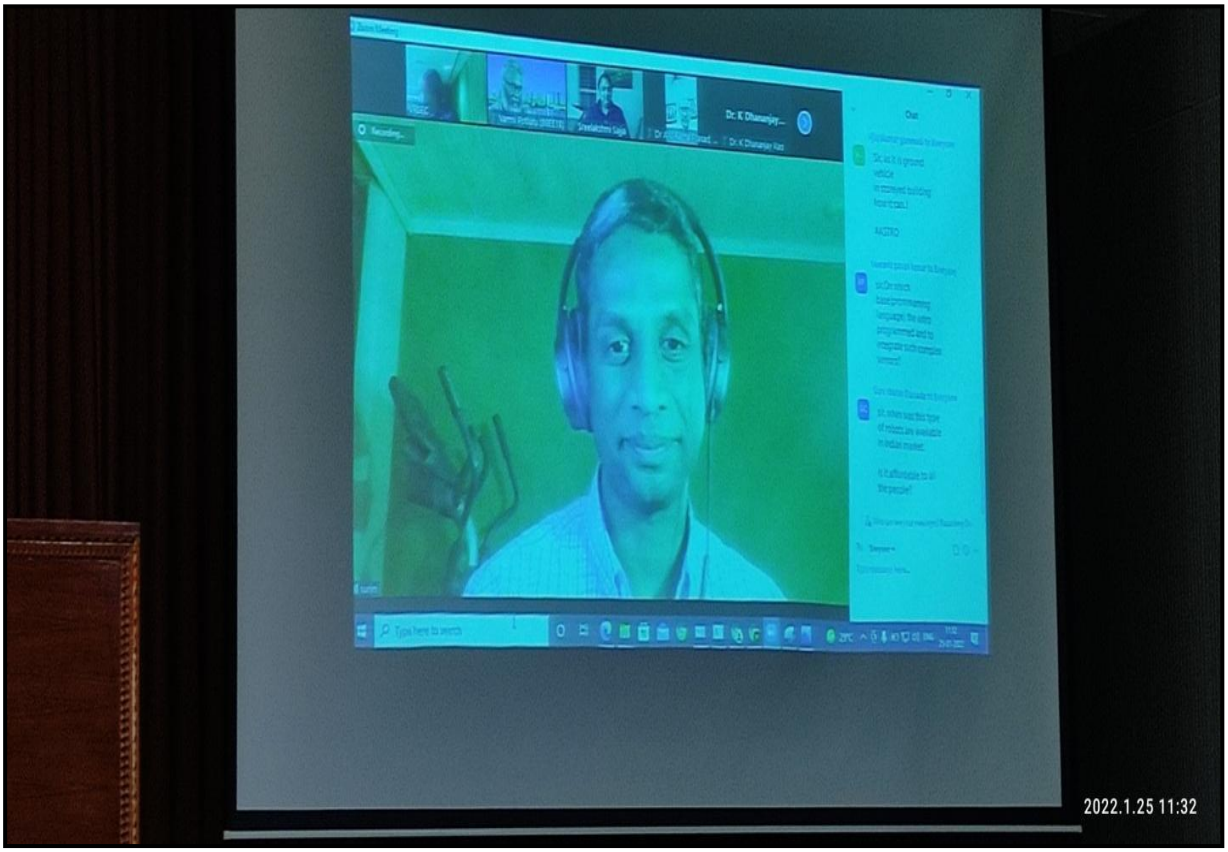
Convener of event:

Dr.P.V.R.L.Narasimham
Professor and HOD, EEE Department.

Co-ordinator of the event:

Dr.K. Dhananjay Rao
Assistant Professor, EEE Department, VRSEC
Faculty In charge, Institution of Engineers [IE], India.

The convener of the program Dr.P.V.R.L.Narasimham initiated the event by demonstrating a you tube video of ASTRO and how Amazon directors worked to develop an Android Robot similar to it. Afterwards the chief guest of the event Mr.M.Surya Narayana interacted with students via online in a Zoom session. As part of his discussion, he outlined the features and parts of ASTRO and discussed how each one interacts to enable the Robot to function. It can detect people and things with the provision of various cameras and sensors. The developed Robot primarily used for domestic purposes and is user-friendly. Students were enthralled by his discussion of robots. Both online and in person, students from various branches attended the event where the chief guest spoke about the Robot developed Amazon. The number of student and faculty participants is 200 and 10 respectively. In the Q&A session, the chief guest of the event answered questions from the audience. During his interaction with guests and students, **Dr. A.V. Ratna Prasad,** Principal, VRSEC emphasized the importance of the event. The seminar concluded with a vote of thanks after the question and answer session and final interaction with the guest.



7. Online webinar session by UNIVERSITY OF YORK on "Study in UK"

The Department of Electrical and Electronics Engineering of V R Siddhartha Engineering College in collaboration with AECC Global conducted a live Webinar Session by University of York on the topic of "Study in United Kingdom (UK). It was held on 10th February 2022 in association with Siddhartha Electrical Association (SEA).

Chief Guest:

Dr.Baruah

Programme leader for MSc

Engineering management-University of York

***Coordinator*:**

Dr.K.Dhananjay Rao

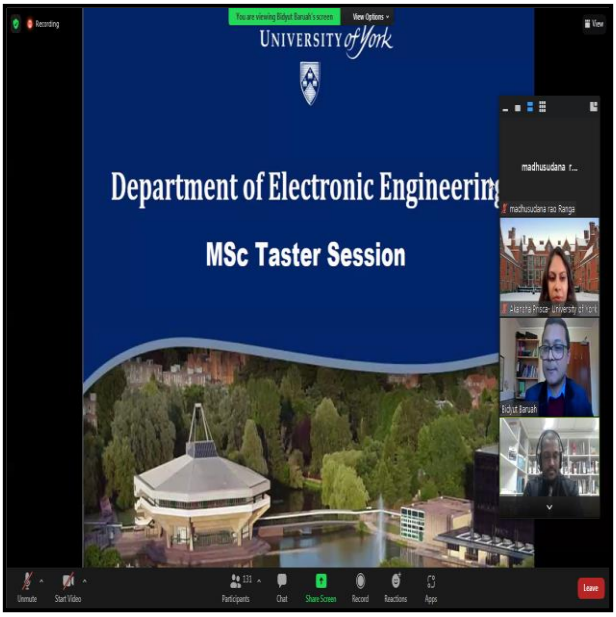
Assistant Professor, EEE

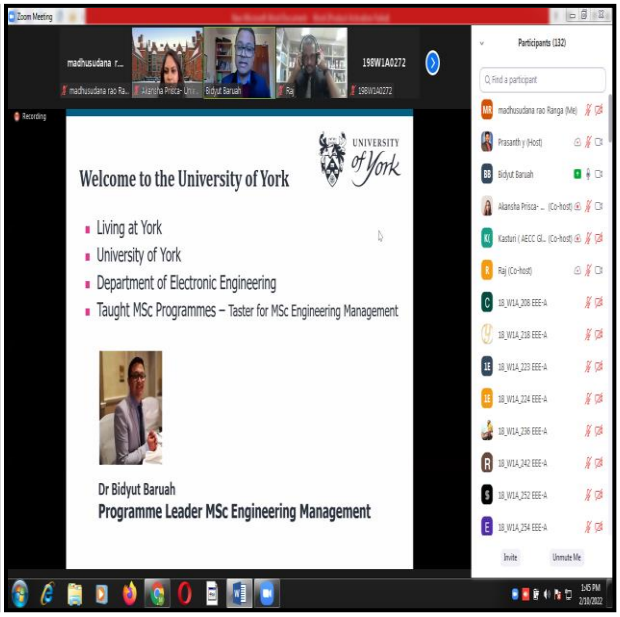
AECC global coordinators:

1. Raj Nunna
   Branch Head -AECC Global

2. Prasanth Y
   AMBD-AECC global

The event was initiated by the AECC Global coordinators with the introduction of chief guest **Dr.Baruah**-Programme Leader for MSc, University Of York. Afterwards Dr.Baruah has been carried out the webinar by acquainting the University Of York with some photos of it. He also emphasized the education structure, taught MScs and MSc structure at York. And then he presented the SimVenture Evolution, advantages of simulation platforms in Engineering Management and also given the details of scholarships at York. The webinar was concluded with vote of thanks by the coordinator





8. One week FDP on "Recent Advancements in Generation and Control in Modern Power Systems"

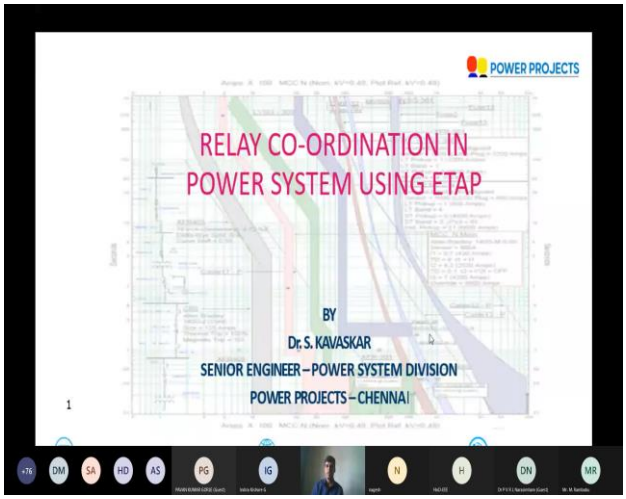
Department of Electrical and Electronics Engineering, VRSEC and GMRIT have successfully organized a one-week faculty development programme on “Recent Advancements in Generation and Control in Modern Power Systems” from 7th to 12th March, 2022. A total of 193 participants from 65 colleges have been attended the program through online mode.

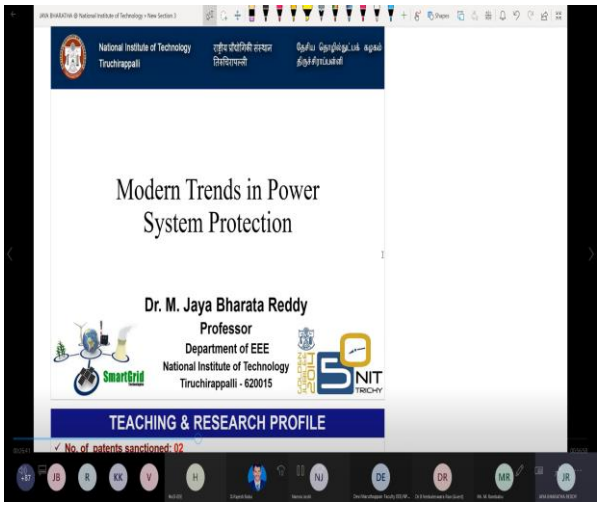
The objectives of this FDP:

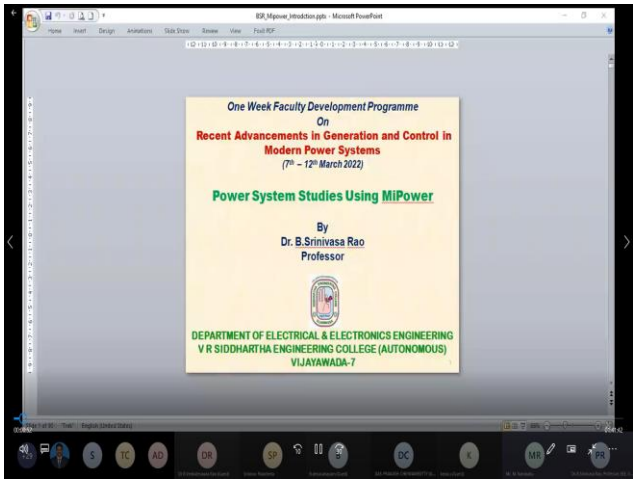
1. To understand the concept of adopting suitable techniques to generate, control the power in the recent decades.
2. Necessity of replacing the traditional power generation with renewable energy sources to reduce the carbon emission and make the process economical one.
3. To inculcate the knowledge of Gas insulated substations
4. Use of various software's like Mipower, ETAP in power system
5. Use of various power system optimization techniques

Provide the sharing of knowledge on Control and Protection aspects of microgrid among the faculty and participants community.

Co-Ordinator	**Convener**	**Principal**
Dr. B. Venkateswara Rao Associate Professor, Department of EEE, VRSEC Dr. M. Rambabu, Sr. Assistant Professor, Department of EEE GMRIT	Dr. P. V. R. L. Narasimham Professor & Head, Department of EEE, VRSEC Dr. P. Ramana Professor & Head, Department of EEE, GMRIT	Dr. A.V Ratna Prasad, VRSEC, Dr. C. L.V. R. S.V. Prasad, GMRIT







9. Four days hands on training workshop on "Artificial Intelligence"

Four days hands on training workshop on "Artificial Intelligence" has been conducted from 19.03.2022 to 22.03.2022 by the Pantech ProEd Pvt Ltd resource persons. They have discussed about the basics of python and IoT. In this programme they developed different projects such as Weather Monitoring, Advanced home alert for gas and fire content using the learnt concepts of IoT. Also they explained the concepts of open CV and applications like Credit card digit recognition, Fire detection. From these projects the students understood the application of raspberry pi and use of various sensors and technologies.

In this programme, the students were got knowledge about the different machine learning techniques like Support vector machines, Bayesian learning techniques, K-Means clustering algorithm and genetic algorithms. During this programme, some of the projects were developed to understand the techniques. Through the hands-on experience, the students developed the following list of projects with help of the resource person guidelines. The list of projects is listed below. This programme is really useful for students to understand current trends in society.

Resource Persons: Pantech ProEd Pvt Ltd.

1. Ms. R. Divyanjali, Project Engineer, Hyderabad.
2. Mr. B.Ramanjaneyulu, Embedded Engineer, Hyderabad
3. Mr. K. Kalyan Kumar, DSP Developer, Chennai
4. Mr. K. Praveen Kumar, DSP Developer, Chennai
5. Mr.Jerry Alleluiah Embedded Developer, Chennai.

Venue: PG & UG Computer Lab, EEE Dept., VRSEC

List of projects developed:

1. Hand written recognition
2. Voice recognition using python
3. Image to text and text to speech conversion using python.
4. AI based chat bot using text
5. IoT with weather monitoring
6. Advanced home alert using Twilio for gas and fire content
7. Babysitting face recognition door lock control using Raspberry pi and open CV
8. Weather prediction using machine learning
9. House Hold Price prediction using Home Appliances
10. Twitter Sentiment analysis using Natural Language Processing

11. Alzheimer detection and classification using flask
12. Credit card digit recognition using open CV
13. Fire detection using open CV
14. Object recognition using DNN
15. Smart trial room application webpage using html

10. Awareness program on "ENERGY CONSERVATION"

The department of Electrical and Electronics Engineering conducted an Awareness Program on Energy Conservation on 12th April 2022. It is organized in association with Institution of Engineers (IE), India.

Chief Guest:

Dr.A.V.Ratna Prasad

Principal, VR Siddhartha Engineering College

Convenor:

Dr.P.V.R.L.Narasimham

Professor and HOD, EEE Department

Coordinator:

Dr. K.Dhananjay Rao

Assistant Professor, EEE Department

Faculty In-charge, Institution of Engineers, India.

As a part of awareness program, the rally was initiated in the college campus by the Dr. A.V. Ratna Prasad, Principal and Dr.P.V.R.L.Narasimham, HOD, EEE and students of the electrical engineering department. Several placards were displayed to emphasize the importance of conserving energy. Dr.A.V.Ratna Prasad, the principal of VRSEC, also took part in the rally. He applauded the students and faculty of the EEE Department for their initiative and dedication towards saving energy. At the end of the rally, the HOD addressed the volunteers to make them aware of importance and reason for moving forward with the event. Additionally, he stressed that the price of one unit of energy increases as the supply of energy is lower than its demand and its consequences. Afterwards, the volunteers split up into groups and visited all departments i.e CSE, IT, ECE, EIE, ME, CE. They explained the importance of conservation of energy to the students. And also they have elaborated the usage of energy efficient devices and turning off electrical appliances when not in use are not only ways to save energy but also saves money. Finally, the Co-ordinator of the program concluded the event by offering a vote of thanks.

Dr. A.V. Ratna Prasad, Principal, Inaugurate the Awareness Programme on Energy Conservation at VRSEC

Dr.P.V.R.L.Narasimham, HOD/EEE, Faculty and Students Participated in Awareness Programme on Energy Conservation at VRSEC

11. Two days training program for Technicians on "High Voltage Engineering Lab Equipment"

In the High Voltage Engineering Lab from 31th March 2022 to 1th April 2022, two days training program have been conducted for Technicians on "High Voltage Engineering Lab Equipment" The resource person for this programme is **Mr.Sangram simpi,** CTO, Sistech HV Systems, Bangalore and coordinator for the said program is Mr S.N.V.S.K.Chaitanya. Total number of technicians attended for the training program is 6.

Day-I

The training Program is started at 10 AM with inaugural function presided by the Convener of the Program. Dr.P.V.R.L Narasirnharn, and Co-ordinator of the training program Mr. S N V S K CHAITANYA.

Morning Session:

- Explanation on over view on HV Lab equipment.
- Theory on High voltage testing of insulators and cables.
- Experiment setup arrangement and hands on training on High voltage testing of insulators and cables.

Afternoon session:

- Explanation on Impulse voltage generation, capturing the wave form using digital oscilloscope, testing of insulators and cables.
- Experiment setup arrangement and hands on training on Impulse voltage testing of insulators and cables, Measurement of leakage current in lightning arrester.

Day 2:

Morning Session:

- Discussed about theory of dielectric strength for vacuum at different air pressure with different electrodes and different gaps.
- Training on using vacuum motor, air pressure motor, precaution for handling the vacuum and pressure chamber.
- Experiment setup arrangement on dielectric strength of air at different air pressure with different electrodes and gaps, dielectric strength of vacuum with different electrodes and different gaps, Observation and study of corona phenomena.

Afternoon session:

Experiment setup arrangement on Study of dielectric strength of solid insulating materials (Teflon, Acrylic Glass fiber) at different air pressures in air and vacuum and Measurement of dielectric strength of air is using different electrodes.

Dr.P.V.R.L.Narasimham Prof&HOD Felicitating the Resource Person

12. Guest Lecture on "Power Systems"

On 15th March 2022 the department of Electrical and Electrical Engineering conducted a guest lecture on Power Systems. The Chief Guest Mr. **Ashok Reddy Pitchapati**, Director-Software Engineering, GE Digital, and USA shared their knowledge and work experience about Power Systems.

13. Guest Lecture on "Electric Vehicles and Integrated Circuits"

On 6th April 2022, the department of Electrical and Electrical Engineering conducted a guest lecture on Electric Vehicles. The Chief guest **Dr. K. Roshan Kumar** and **Mr. Rajashekar**, shared their knowledge and work experience about Electric Vehicles and Integrated Circuits (IC) Design and development process.

Chief Guests:

1) Dr. K. Roshan Kumar,
   Subject matter expertss
   E-power train at Microfuzzy, Germany.
2) Mr. Rajashekar,
   Senior design engineer,
   Texas instruments, Bangalore.

Convener:

Dr.P.V.R.L Narasimham,
Professor and HOD, EEE Department.

Coordinator:

Dr. K. Dhananjay Rao,

Assistant Professor, EEE Department, VRSEC.

Faculty Incharge, Institution of Engineers (IE), India.

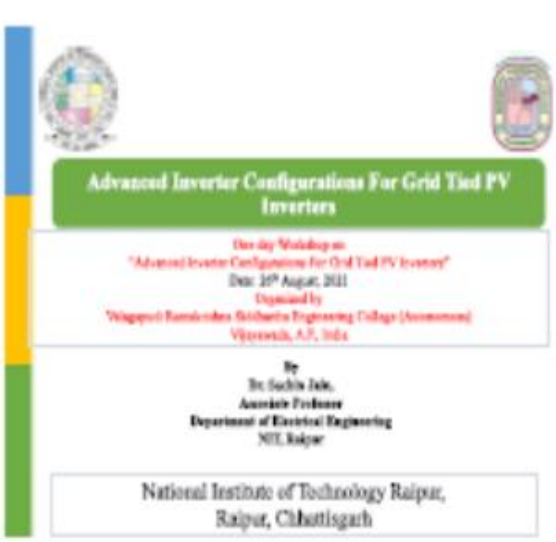
The convener of the program initiated the event by introducing briefly about the chief guests. Both the Chief guests interacted with the student's offline and shared their knowledge about electric vehicles and IC. Dr.K.Roshan Kumar discussed about DC-DC converters and Battery management system design and also challenges associated with electric vehicles. Mr. Rajashekar discussed about IC's design and development and the challenges they face to meet the requirements of the customers during IC design. Also, clarified the student's queries meticulously. Around 100 students and 5 professors attended the event. The seminar ended with a few words by chief guests and their suggestions to students and vote of thanks by the convener of the program.

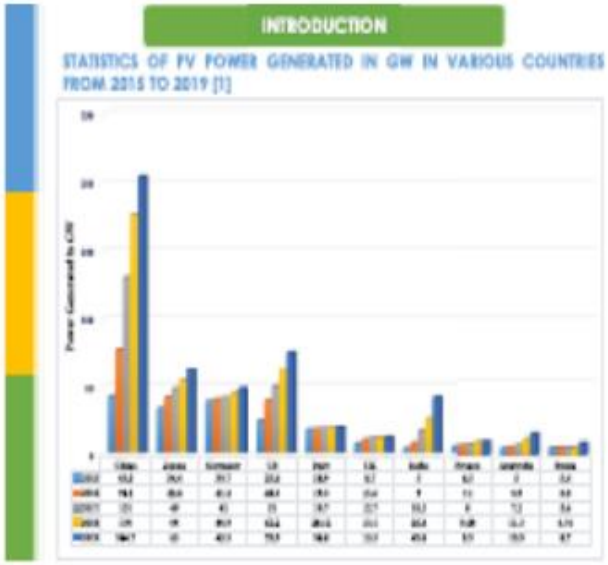
14. APCPDCL Chairman visit to Dept. of EEE VRSEC

On 11th April 2022, the **Sri J PADMA JANARDHANA REDDY** Chairman & Managing Director, APCPDCL, Vijayawada visited Department of Electrical and Electrical Engineering VRSEC. During that time Dr.P.V.R.L Narasimham, Professor and HOD, explained facility available in High Voltage Engineering Laboratory for testing high voltage insulators. The chairman appreciated and came forward to give consultancy for the same.

15. One day workshop on "Advance configurations for PV Grid Tied Inverters"

Dr. Sachin Jain, Associate Professor, NIT Raipur has visited our campus on 26th August 2021. He delivered a talk on "Advance configurations for PV Grid Tied Inverters" to our faculty and PG, II-Semester students in new Seminar Hall-II.The speaker highlighted the significance of Need of Power Electronics converter topologies in PV grid tied inverters. He presented the statics of PV power generation in various countries for the last five years. The significance of parasitic capacitance and leakage current in PV panels. He explained the following research topics with case studies including the experimental results to the participants.





FDP/WORKSHOPS/WEBINAR ATTENDED BY FACULTY

S. No	Topic	Organizing Institute	Dates of the Event	Name of the Faculty	Event
1.	Electric Vehicle Charging and Solar Rooftop	Tata Power Delhi Distribution Limited, New Delhi	28-09-21 &29-9-21	Dr.P.V.R.L.Narasimham	Webinar
2.	Master Class on ESD, IOT & PCB Design	Pantech Pro Labs India Pvt. Ltd.	9-02-22 to 14-03-22	Dr.A.RamaDevi	FDP
3.	PCB DESIGN		14-3-22 to 31-03-22		FDP
4.	The Joy of Computing using Python	NPTEL - AICTE	Jan- Apr 2022		NPTEL
5.	Recent Advancements in Generation and Control in Modern Power Systems	GMRIT_EEE and VRSEC	7 -3-22 to 12-3-22		FDP
6.	Research Project Proposal -Thought Process to Submission	IQAC & Dept. of CSE, VRSEC	24-06-22		Seminar
7.	Design Thinking	IQAC VRSEC under AICTE Margadarshan Scheme	4-04-22 to 08-04-22	Dr. B.Srinivasa Rao	FDP
8.	Feature Funding Opportunities for NGOs and Academic Institute-Oct-2021	Navjivan Center for Development, Gujarat	15-10-21 18:30		Webinar
9.	Recent Advancements in Generation and Control in Modern Power Systems	GMRIT_EEE and VRSEC	7 -3-22 to 12-3-22	Smt.S.V.R.L.Kumari	FDP
10.	Quality of Question Paper Setting and Evaluation Techniques	IQAC & Dept. of CSE, VRSEC under AICTE Margadarshan Scheme	20-6-22 & 21-06-22		Workshop
11.	Master Class on ‘Role of GIS in Power Distribution’	Tata Power Delhi Distribution limited, New Delhi	23-12-21 to 24-12-21		Workshop
12.	Master Class on ‘Microgrids’	Tata Power Delhi Distribution limited, New Delhi	20-1-22 to 21-1-22		Workshop
13.	Fund Raising for New Business Start up	NITTTR, Chandigarh	13-9-21 to 17-9-21	Dr.G.Srinivasa Rao	FDP
14.	Electrical and Energy Studies - basics of Induction motors	APSSDC	20-9-21 to 22-9-2021		FDP

S. No	Topic	Organizing Institute	Dates of the Event	Name of the Faculty	Event
15.	Electrical and Energy Studies - basics of Low voltage Switch gear-3	APSSDC	23-9-21 to 25-9-21		FDP
16.	Electrical and Energy Studies - basics of AC DC Drives	APSSDC	27-9-21 to 4-10-21		FDP
17.	Electrical and Energy Studies - basics of Low voltage Switch gear-4	APSSDC	5-10-21 to 8-10-21		FDP
18.	The Joy of Computing using Python	NPTEL - AICTE	Jan- Apr 2022		NPTEL
19.	IPR: Key to India's Future Journey	Turnip Innovations Pvt.Ltd	8-14-2021		Seminar
20.	Innovation Ambassador training	MoE's Innovation Cell & AICTE	30-6-21 to30-7-21		Training
21.	IP Awareness Training Program under National Intellectual Property Awareness Mission	Intellectual Property Office, India	19-1-2022		Workshop
22.	Recent Advancements in Generation and Control in Modern Power Systems	GMRIT_EEE and VRSEC	7^{th} - 12^{th}March 2022	Dr. B. Venkateswara Rao	FDP
23.	Recent Trends in Power Electronics, Controllers and Power Systems	GMRIT, RAJAM	19-7-21 to 23-7-21		FDP
24.	Two Day Virtual Academia – Industry Conclave on Recent Trends in Smart Power Systems	SELECT, VIT, Vellore	23-6-22 & 24-6-22		FDP
25.	Design Thinking, Critical Thinking and Innovation Design	Dept. of EEE,VRSEC	2-1-2022		Seminar
26.	Recent Trends in Energy and Power Systems	SELECT, VIT, Vellore	6-9-21 to 11-9-21	Dr.J.Ramesh	FDP
27.	PV System and Design	NSIC,Hyderabad	16-6-22 to 30-6-22		Industrial Training

S. No	Topic	Organizing Institute	Dates of the Event	Name of the Faculty	Event
28.	Design and Development of Machine Learning Model for Remote Monitoring and Control of Hybrid Microgrid in Educational Institutions using Smart Sensor Network and IoT	Kamaraj College of Engineering and Technology, Madurai, Tamilnadu	11-1-22 & 12-1-22		FDP
29.	Power Electronics Applications to Smart grid and Electric Vehicles	ANITS,Visakhapatnam	27-6-22 to 29-6-22		FDP
30.	Research Innovation and Emerging Advances in Electrical Engineering	AITAM, Tekkali	4-04-22 to 9-04-22		FDP
31.	Control Techniques and Smart Solutions in MicroGrid	E&ICT Academy & NIT Warangal	18-4-22 to 27-4-22		FDP
32.	IoT Applications in Smart metering	E&ICT Academy & NIT Warangal	18-3-22 to 27-3-22		FDP
33.	Smart Grid Empowering Smart Cities	National Institute of Technology Calicut	18-10-21 to 22.10.21		Workshop
34.	Recent Trends in Smart Power Systems	VIT, Vellore	23 – 24th, June, 22		Workshop
35.	Research Project Proposal - Thought Process to Submission	IQAC, VRSEC	24th June, 2022		Workshop
36.	Industrial /Professional Training Program on Machine Learning	Lab view Academy Centre of Excellence	19-1-22 to 27-3-22	Dr.N.VamsiKrishna	FDP
37.	Recent Advancements in Generation and Control in Modern Power Systems	GMRIT_EEE and VRSEC	7-3-22 to 12-3-22	Sri.P.Venkatesh	FDP
38.	Master Class on ‘Role of GIS in Power Distribution’	Tata Power Delhi Distribution limited, New Delhi	23-12-21 to 24.12.21		Workshop
39.	Industrial IOT: Automation,PLC's,VFD & WEBSERVER	NSIC,Hyderabad	20-9-21 to 24-9-21	Sri.S.N.V.S.K.Chaitanya	FDP
40.	Advanced Industrial Training for Engineering Education and Research	IIIT, Trichy and Indwell Automation,Mangalore	31-1-22 to 4-2-22		FDP

S. No	Topic	Organizing Institute	Dates of the Event	Name of the Faculty	Event
41.	Python Programming for Beginners	NIT Warangal	27-1-22 to 31-1-22		FDP
42.	Recent Advancements in Generation and Control in Modern Power Systems	GMRIT & VRSEC	7-3-22 to 12-3-22		FDP
43.	Virtual Academia – Industry Conclave on Recent Trends in Smart Power Systems	VIT - Vellore	23-6-22 to24-6-22		FDP
44.	Energy Simulation for Energy Conservation Building Code (ECBC) & Eco-Niwas Samhitha (ENS)	AndhraPradesh State Energy Conservation Mission & Bureau of Energy Efficiency	29-12-21 to 30-12-21		Workshop
45.	Basics of induction motors	APSSDC	20-921 to 22-9-21	Sri.T.Suneel	FDP
46.	Low Voltage switch Gear-5	APSSDC	23-9-21 to 25-9-21		FDP
47.	Electrical and Energy Studies-Basics of AC DC Drives	APSSDC	27-09-21 to 4-10-21		FDP
48.	Low Voltage switch Gear-6	APSSDC	5-10-21 to 8-10-21		FDP
49.	Advancements in security using Deep Learning	GMRIT, RAJAM	21-3-22 to 25-3-22		FDP
50.	Research Methodology &IPR	VRSEC in collaboration with ISRO & DRDO	27-9-21 to 8-10-21		FDP
51.	Academic leadership in higher Education institution under MARGDARSHAN	IQAC, VRSEC	18-02-22		Webinar
52.	Guidelines for Quality Publications of Project Works	IQAC, VRSEC	04-2-22		Webinar
53.	Integration of Renewable Energy & EV to Microgrid: Prospects and Challenges	NIT, Trichy &Hong Kong Polytechnic University	21-2-22 to 25-2-22	Sri.M.L.N.Vital	FDP
54.	Recent Advancements in Generation and Control in Modern Power Systems	GMRIT and VRSEC	7-3-22 to 12-3-22	Sri.R.G.BalaKrishna	FDP

S. No	Topic	Organizing Institute	Dates of the Event	Name of the Faculty	Event
55.	Industrial /Professional Training Program on Machine Learning	Labview Academy Centre of Excellence	19-1-22 to 27-3-22	Sri.R.MadhusudhanaRao	FDP
56.	Recent Trends in Power Electronics, Controllers and Power Systems	GMRIT, RAJAM	19-7-21 to 23-7-21	Sri.V.Hari Vamsi	FDP
57.	Industrial IOT: Automation,PLC's,VFD & WEBSERVER"	NSIC,Hyderabad	20-9-21 to 24-9-21		FDP
58.	Advanced Industrial Training for Engineering Education and Research	IIIT, Trichy and Indwell Automation,Mangalore	31-1-22 to 4-2-22		FDP
59.	Python Programming for Beginners	NIT Warangal	27-01-22 to 31-1-22		FDP
60.	Recent Advancements in Generation and Control in Modern Power Systems	GMRIT & VRSEC	7-3-22 to 12-3-22		FDP
61.	The Joy of Computing using Python	NPTEL - AICTE	Jan- Apr 2022		FDP
62.	Energy Simulation for Energy Conservation Building Code (ECBC) & Eco-Niwas Samhitha (ENS)	AndhraPradesh State Energy Conservation Mission & Bureau of Energy Efficiency	29-12-21 to 30-12-21		Workshop
63.	Recent Advancements in Generation and Control in Modern Power Systems	GMRIT_EEE and VRSEC	7-3-22 to 12-3-22	Dr.A.Veera Reddy	FDP
64.	Signals Systems and Transform Techniques	Dept. of EEE, MVSR Engineering College, Hyderabad	22-11-21 to 27-11-21	Dr.P.ChandraBabu Naidu	FDP
65.	Renewable energy system Master class	APSSDC in association with Pantech solutions e-learning Pvt.Ltd, Chennai	17-10-21 to 16-11-21		FDP
66.	Master class on Artificial Intelligence	APSSDC in association with Pantech solutions e-learning Pvt.Ltd, Chennai	6-12-21 to 4-1-22		FDP
67.	Master Class on EV Design	APSSDC	2-2-22 to 3-3-22		FDP

S. No	Topic	Organizing Institute	Dates of the Event	Name of the Faculty	Event
68.	Recent Advancements in Generation and Control in Modern Power Systems	GMRIT_EEE and VRSEC	7-3-22 to 12-3-22		FDP
69.	Intelligent IoT and its applications	VRSEC	12th November 2021		Seminar
70.	SDG-7 Impact on Indian Universities	IGEN SDG Research Survey	14-8-21		Seminar
71.	Renewable Energy System Design Using Matlab Webinar Series	APSSDC	18-10-21to 16-11-21		Workshop
72.	Industrial IOT: Automation,PLC's,VFD & WEBSERVER	NSIC,Hyderabad	20-9-21 to 24-9-21	Sri.K.SaiTeja	FDP
73.	Industrial IOT: Automation,PLC's,VFD & WEBSERVER	NSIC,Hyderabad	20-9-21 to 24-9-21	Sri.P.Sowmith	FDP
74.	Inculcating Universal Human Values in Technical Education	AICTE	28-6-21 to 2-7-21	Dr.Subhojit Dawn	FDP
75.	EV Battery Pack Sizing	Elite Techno Groups	22-06-22		Seminar
76.	Power Systems and Power Electronics for Green Energy	Vignan's Institute of Engineering for Women, Visakhapatnam,	13-9-21 to 18-9-21	Sri.V.Ravindranath Chowdary	FDP
77.	Recent Trends in Energy and Power Systems	SELECT, VIT, Vellore	06.9.21 to 11.9.21		FDP
78.	Webinar on IPR	Turnip Innovations Pvt Ltd	14-8-21		Seminar
79.	Workshop on Improving Research & Performance Outcomes	Elsevier	31-8-21-1-9-21		Workshop
80.	Indo-US SPARC Online Workshop on Smart Grid Empowering Smart Cities (SGESC)-2021	National Institute of Technology Calicut	18-10-21 to22-10-21		Workshop
81.	Signals Systems and Transform Techniques	MVSR Engineering College, Hyderabad	22-11-21 to 27-11-21	Dr.K.Dhananjay Rao	FDP
82.	Recent Trends and Challenges in Power market with Smart Grid Technology'	VRSEC	20-9-21 to 25-9-21		FDP

S. No	Topic	Organizing Institute	Dates of the Event	Name of the Faculty	Event
83.	Recent Advancements in Generation and Control in Modern Power Systems	GMRIT_EEE and VRSEC	7-3-22 to 12-3-22		FDP
84.	Virtual Academia – Industry Conclave on Recent Trends in Smart Power Systems	SELECT, VIT, Vellore	23-6-22 & 24-6-22		FDP
85.	EV Battery Pack Sizing	Elite Techno Groups	22-06-22		Seminar
86.	Research Project Proposal -Thought Process to Submission	IQAC, VRSEC	24-06-22		Seminar
87.	Artificial Intelligence in Remote Sensing Applications	VRSEC	Sep 27 to Oct 08, 2021	Dr. A.Narendra Babu	Seminar
88.	Recent Advancements in Generation and Control in Modern Power Systems	GMRITand VRSEC	7-3-22 to 12-3-22	Ms.J Vimala Kumari	FDP
89.	Automation Basics of SCADA	APSSDC	27-9-21 to 01-10-21		FDP
90.	IOT and AI Technology Applications in Electric Vehicles and Green Energy Integration - IATA-EVGEI-2021	KL University	29-11-21 to 3-12-21		FDP
91.	FDP on Scientific Educational Practices	VRSEC	17-3-22 to 19-3-22		FDP
92.	Inculcating Universal Human Values in Technical Education	AICTE	28-3-22 to 1-4-22		FDP
93.	Automation Basics & HMI Networking	APSSDC	27-9-21 to 1-10-21		FDP
94.	Intelligent IoT and its applications	VRSEC	12-11-21		Seminar

FACULTY ACTING AS RESOURCE PERSON/EPERT MEMBERS OUTSIDE THE COLLEGE

S.No	Name of the Faculty	Designation	Name of the Event	Duration	Organized by
1	Dr.Subhojit Dawn	Assistant Professor	Resource person for Webinar on Renewable Energy Integration in Deregulated Power System	07/23/2021	Institute of Engineering & Technology, Kolkata Local Network
2	Dr.G.Srinivasa Rao	Associate Professor	Resource person for Rountable meet on Enterpreneurship Innovation Start-Ups in HEI's of AP	01/04/2022	QA Cell, APSCHE,Mangalagiri
3	Dr.Subhojit Dawn	Assistant Professor	As a key speaker in Workshop on “Dynamic Distribution System – A New Architecture”,	02/16/2022	Swami Vivekananda University, Kolkata
4	Dr.B.Srinivasa Rao	Professor	As a Resource person for Recent Advancements in Generation and Control in Modern Power Systems	7th -12thMarch 2022	Jointly organized by VRSEC & GMRIT
5	Dr.G.Srinivasa Rao	Associate Professor	As a Resource person for Recent Advancements in Generation and Control in Modern Power Systems	7th -12thMarch 2022	Jointly organized by VRSEC & GMRIT
6	Dr.B.Srinivasa Rao	Professor	Delivered a Session Talk at National Conference on Smart Electrical & Communication Technologies	20-21st May 2022	Sir CRR College of Engineering
7	Dr.B.Srinivasa Rao	Professor	Acted as Judge at National Conference on Smart Electrical & Communication Technologies	20-21st May 2022	Sir CRR College of Engineering
8	Dr.B.venkateswara Rao	Associate Professor	Acted as Techical Session Chair, III Innovative Product Design and Intelligent Manufacturing Systems	30 & 31 December 2021	Dept. of Industrial Design & Dept. of ME, NIT Rourkela

FACULTY PUBLICATIONS

International Journals

Sl. No	Author Name	Title of the Paper	Publication Details	DOI	SCI/ SCIE/ SCOPUS/WOS/UGC	Q-Index	Citation Details	UG/PG
1	T. Nagadurga, **P.V.R.L. Narasimham**, V. S. Vakula	Global Maximum Power Point Tracking of Solar Photovoltaic Strings under Partial Shading Conditions Using Cat Swarm Optimization Technique	Sustainability, (MDPI), vol. 13, no. 19, 2021	0.3390 /su131 91110	SCIE	Q1	1	-
2	**B. Venkateswara Rao**, R. Devarapalli, H. Malik, S. K. Bali, F. P. G. Márquez, T. Chiranjeevi	Wind integrated power system to reduce emission: An application of Bat algorithm	Journal of Intelligent & Fuzzy Systems, vol. 42, no. 2, pp. 1–9, 2021	10.323 3/JIFS -18977	SCIE	Q2	6	-
3	R. Devarapalli, **B. Venkateswara Rao**, B. Dey, K. Vinod Kumar, H. Malik, F. P. G. Márquez	An approach to solve OPF problems using novel hybrid whale and sine cosine optimization algorithm	Journal of Intelligent & Fuzzy Systems, vol. 42, no. 2, pp. 957-967, pp. 1–11, 2021	10.323 3/JIFS -18976	SCIE	Q2	9	-
4	**Subhojit Dawn**, Sadhan Gope, Shreya Shree Das	Social Welfare Maximization of Competitive Congested Power Market Considering Wind Farm and Pumped Hydroelectric Storage System	Electronics, (MDPI), vol. 10, no. 21, 2021	10.339 0/elect ronics 10212 611	SCIE	Q2	2	-
5	**Subhojit Dawn**, Shreya Shree Das, Sadhan Gope	Global Power and Energy Scenario During COVID-19 Pandemic: Lessons from Lockdown	International Journal of Electrical Power and Energy Systems, (Elsevier), vol.137, 2022	10.101 6/j.ijep es.202 1.1077 57	SCIE	Q1	2	-
6	**Ramesh Jayaraman**, **Suneel Tummapudi**, R.B.R. Prakash, T. Vijay Muni	Analysis of sliding mode controller based DSTATCOM for power quality improvement in distribution power system	Materials Today: Proceedings, (Elsevier), Preprint 2021	10.101 6/j.mat pr.202 1.07.3 60	SCOPUS	-	1	-
7	Syed Abdul Mujeer, **Ramesh Jayaraman**, Puchanuthala Siva Krishna, Sivaprasad Kollati, M Raja Nayak	FOPID and state space analysis based PSS for damping of oscillation in multi machine system	Materials Today: Proceedings, (Elsevier), Preprint 2021	10.101 6/j.mat pr.202 1.06.3 93	SCOPUS	-	3	-

Sl. No	Author Name	Title of the Paper	Publication Details	DOI	SCI/ SCIE/ SCOPUS/WOS/UGC	Q-Index	Citation Details	UG/PG
8	Sadhan Gope, **Subhojit Dawn**, Shreya Shree Das, Hemakumar Reddy Galiveeti	Wind farm integrated restructured electricity market analysis using Ant Lion optimizer algorithm	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects (T&F), 2021	10.1080/15567036.2021.1953637	SCIE	Q2	-	-
9	T. Nagadurga, **P. V. R. L. Narasimham**, V. S. Vakula, Ramesh Devarapalli	Gray Wolf optimization based optimal grid connected solar photovoltaic system with enhanced power quality features	Concurrency and Computation Practice and Experience, vol. 34, no. 5, 2021	10.1002/cpe.6696	SCIE	Q3	1	-
10	Muppidi Rambabu, Gundavarapu Venkata Nagesh Kumar, **Bathina Venkateswara Rao**, Bali Sravan Kumar	Optimal power flow solution of an integrated power system using elephant herd optimization algorithm incorporating stochastic wind and solar power	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects (T&F), 2021	10.1080/15567036.2021.1972059	SCIE	Q2	1	-
11	Nitesh Kumar Singh, Chaitali Koley, Sadhan Gope, **Subhojit Dawn,** Taha Selim Ustun	An Economic Risk Analysis in Wind and Pumped Hydro Energy Storage Integrated Power System Using Meta-Heuristic Algorithm	Sustainability, (MDPI), vol. 13, 2021	10.3390/su132413542	SCIE	Q1	3	-
12	Arup Das, **Subhojit Dawn,** Sadhan Gope, Taha Selim Ustun	A Risk Curtailment Strategy for Solar PV-Battery Integrated Competitive Power System	Electronics, (MDPI), vol. 11, no. 8, 2022	10.3390/electronics11081251	SCIE	Q2	1	-
13	Shreya Shree Das, Arup Das, **Subhojit Dawn**, Sadhan Gope, Taha Selim Ustun	A Joint Scheduling Strategy for Wind and Solar Photovoltaic Systems to Grasp Imbalance Cost in Competitive Market	Sustainability, (MDPI), vol. 14, no. 9, 2021	10.3390/su14095000	SCIE	Q1	1	-
14	S. V. D. Anil Kumar, M. Seshu, **N. Vamsi Krishna**	A Reduced Rating of Isolated-VSIs DSTATCOM for PQ Enhancement Using MRE-PWM Technique	ARPN Journal of Engineering and Applied Sciences, vol. 16, no.21, 2021	-	SCOPUS	Q3	-	-
15	**K. Dhananjay Rao**, S. Ghosh and R. Keshri	A Resilient Temperature Suppressed Optimal Charging Strategy for Ultra capacitors to Attain Desired State of Charge	IEEE Transactions on Energy Conversion, Early Access, 2022	10.1109/TEC.2022.3214447	SCI	Q1	-	-
16	D. Srilatha, RVS Lakshmi Kumari, **S.V.R. Lakshmi Kumari**	Usage-Based Loss Allocation to Generators in Single Area Power System	Design Engineering (Toronto), vol. 7, 2021	-	SCOPUS	Q4	-	-

Sl. No	Author Name	Title of the Paper	Publication Details	DOI	SCI/ SCIE/ SCOPUS/WOS/UGC	Q-Index	Citation Details	UG/PG
17	N. Yalla, V. K. Bussa, A. V. J. S. Praneeth, P. Agarwal, **A. N. Babu,** Y. S. Rao	Reduced Switching State Five-Level Rectifier	IEEE Transactions on Industry Applications, vol. 58, no. 1, pp. 612-621, 2022	10.1109/TIA.2021.3112024	SCI	Q1	1	-
18	Yadlapalli, Ravindranath Tagore, Anuradha Kotapati, **Srinivasa Rao Balusu**	Fuzzy logic control based high step up converter for electric vehicle applications	International Journal of Innovative Computing and Applications, vol. 13, no. 1, pp. 41-56, 2022	10.1504/IJICA.2022.121388	SCOPUS	Q4	-	-
19	Akanksha Mishra, Nagesh Kumar Gundavarapu Venkata, Sravana Kumar Bali, **Venkateswara Rao Bathina**, Uma Maheswari Ramisetty, Srikanth Gollapudi, Hady Habib Fayek, Eugen Rusu	Strategic Placement of Solar Power Plant and Interline Power Flow Controllers for Prevention of Blackouts	Inventions (MDPI), vol. 7, no. 30, 2022	10.3390/inventions7010030	SCOPUS	Q2	-	-
20	Shreya Shree Das, **Subhojit Dawn**, Sadhan Gope, Hassan Haes Alhelou	Social welfare improvement using market clearing mechanism of a wind farm-CAES hybrid congested transmission system	IET Renewable Power Generation, Preprint, 2022	10.1049/rpg2.12519	SCIE	Q2	-	-
21	Thamizharasan S., **Paruchuri Chandra Babu Naidu**, Vasuja Devi M., Lourdes Emperatriz Paredes Castelo, Kovendan Akp, Swaminathan J N	Design of Smart Spectacle in 5G-IoT Environment to Detect and Prevent CORONA Virus Variants	Springer Smart Innovation, Systems and Technologies (SIST series), vol.312, 2022	-	SCOPUS	Q3	-	-
22	Sumeet Gupta, **Paruchuri Chandra Babu Naidu**, Vasudevan Kuppan, M. Alagumeenaakshi, R. Niruban, J.N. Swaminathan	Analysis of various Toxic gas Levels using 5G ML-IoT for Air Quality Monitoring and Forecasting	Springer Smart Innovation, Systems and Technologies (SIST series)	-	SCOPUS	Q3	-	-
23	Nitesh Kumar Singh, Sadhan Gope, Chaitali Koley, **Subhojit Dawn**, Hassan Haes Alhelou	Optimal Bidding Strategy for Social Welfare Maximization in Wind Farm Integrated Deregulated Power System using Artificial Gorilla Troops Optimizer Algorithm	IEEE Access, vol. 10, 2022	10.1109/ACCESS.2022.3188651	SCIE	Q1	-	-

International Conferences

Sl. No.	Author Name	Title of the Paper	Publication Details	DOI	SCI/SCIE/ SCOPUS/WOS/ UGC	Publisher	Citation Details	UG/ PG
1	Para Vidya Sagar, **M.S. Krishna Rayalu**	State Space Approach of Automatic Generation Control of Two-Area Multi-Source Power systems	International Conference on Computational Intelligence & Sustainable Technologies (ICoCIST-2021), NIT Silchar, October 2021	10.1007/978-981-16-6893-7_41	-	Springer	-	PG
2	Para Vidya Sagar, **M.S. Krishna Rayalu**	State Space Modelling for 2 Area Multiple Source AGC using PI, PID, PI-PD controllers	Third International Conference on Advances in Electrical and Computer Technologies 2021 (ICAECT 2021), Coimbatore, Oct 2021	10.1007/978-981-19-1111-8_70	Scopus	Springer	-	PG
3	T. Papi Naidu, **Venkateswara rao B**, G.Balasubramanian,	Whale optimization algorithm based optimal power flow: In view of power losses, voltage stability and emission	3rd International Conference on Innovations in Power and Advanced Computing Technologies (i-PACT 2021), University of Malaya (UM), Kuala Lumpur, Malaysia and Vellore Institute of Technology (VIT), Vellore, India, held from 27th to 29th Nov2021	10.1109/i-PACT52855.2021.9696879	Scopus	IEEE	-	-
4	M. J. Raj, S. Gadde and **Ramesh Jayaraman**	Implementation of Biometric Access Control Using Fingerprint for Safety and Security System of Electric Vehicle	2021 IEEE 2nd International Conference on Smart Electronics and Communication (ICOSEC), Oct 7-9 2021, Kongunadu College of Engineering and Technology, Trichy, Tamilnadu, 2021	10.1109/ICOSEC51865.2021.9591718	Scopus	IEEE	1	UG
5	S. L. Rikwith, D. Saiteja, **Ramesh Jayaraman**	Enhancement of Electronic Voting Machine Performance Using Fingerprint and Face Recognition	2021 IEEE 2nd International Conference on Smart Electronics and Communication (ICOSEC), Oct 7-9 2021, Kongunadu College of Engineering and Technology, Trichy, Tamil nadu, 2021	10.1109/ICOSEC51865.2021.9591895	Scopus	IEEE	1	UG
6	**S. N. V. S. K. Chaitanya, B. V. Rao,** R. A. Bakkiyaraj	Solution of an Optimal Reactive Power Dispatch problem: An application of Modified Ant Lion Optimizer	2021 31st Australasian Universities Power Engineering Conference (AUPEC), Curtin University, Perth, Australia, September 26-30, 2021.	10.1109/AUPEC52110.2021.9597756	Scopus	IEEE	-	-

Sl. No.	Author Name	Title of the Paper	Publication Details	DOI	SCI/SCIE/ SCOPUS/WOS/ UGC	Publisher	Citation Details	UG/ PG
7	I. Meghana and **Paruchuri Chandra Babu Naidu**	Simulation of Slip Compensation for Induction Motor Drive Using MATLAB	3rd International Conference on Innovations in Power and Advanced Computing Technologies (i-PACT 2021), University of Malaya (UM), Kuala Lumpur, Malaysia and Vellore Institute of Technology (VIT), Vellore, India, 27th to 29th November 2021.	10.1109/i-PACT52855.2021.9696878	Scopus	IEEE	-	UG
8	**P. Sowmith**, N. Goutham Kumar, B. Varun Kumar	Multi-objective Hydro-Thermal-Wind Scheduling Applying PSO	International Conference on Computational Intelligence and Sustainable Technologies, October 2021, NIT Silchar, 2021	10.1007/978-981-16-6893-7_13	-	Springer	-	-
9	Manasa Laksmi Royyuru, **Gummadi Srinivasa Rao, Venkateswara rao B**	Spontaneous Water Impurity Detection System using Arduino	International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDMS-2021), NIT Rourkela, 30-31 December, 2021	-	Scopus	Springer	-	UG
10	O. Satya, **Gummadi Srinivasa Rao, Venkateswara rao B**	Firefly Algorithm established Economic Load Dispatch with loss coefficients	International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDMS-2021), NIT Rourkela, 30-31 December, 2021	-	Scopus	Springer	-	UG
11	V Pavan Kumar, **Venkateswara Rao B**, G Jagadeesh Harsha, MD John Saida, A.B.V Mohana Rao	Arduino-based Unmanned Vehicle to provide assistance under Emergency conditions	International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDMS-2021), NIT Rourkela, 30-31 December, 2021	-	Scopus	Springer	-	UG
12	**P. Sowmith, B. Venkateswara Rao**	PSO based short term hydro thermal and wind plant scheduling: in view of emission factor	International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDMS-2021), NIT Rourkela, 30-31 December, 2021	-	Scopus	Springer	-	-
13	T. Sai Sowmya, **Subhojit Dawn**, Ch. Sunil Kumar, Sk. Mounib Baig, R. Varaprasad	Wireless Solar Power Transmission System	2nd Int Conf on Innovation In Energy Management And Renewable Resources 25th to 27th February, 2022, Institute of Engineering & Management, Kolkata, 2022	-	Scopus	IEEE	-	UG

Sl. No.	Author Name	Title of the Paper	Publication Details	DOI	SCI/SCIE/ SCOPUS/WOS/ UGC	Publisher	Citation Details	UG/ PG
14	Doddigalla Anusha, **Subhojit Dawn**, Ganta Vimal Sharon, Mandepudi Bhargav, Paladi Venkata Varshini, Puli Mani Veera Sai	Gesture Controlled Home Automation Using Python OpenCV	2nd International Conference on Innovation In Energy Management And Renewable Resources (IEMRE - 2022), 25th to 27th February, 2022, Institute of Engineering & Management, Kolkata, 2022	-	Scopus	IEEE	-	UG
15	R Naga Ajaybabu, **K Dhananjay Rao**, B Krishna Kanth, K Madhuchandan, K Jayanth	Lithium Iron Phosphate Battery and Ultracapacitor based Hybrid Storage System to Enhance Overall System Performance of Electric Vehicle	2nd International Conference on Innovation In Energy Management And Renewable Resources (IEMRE - 2022), 25th to 27th February, 2022, Institute of Engineering & Management, Kolkata, 2022	-	Scopus	IEEE	-	UG
16	B. Mahesh Babu, **V. Hari Vamsi**, T Srinivasa Rao	Current Harmonic Mitigation with optimized MLI-SAPF on the Distribution Side Systems	1st Conferene on Power Electronic & Sustainable Development, NIT Jamshedpur, April 23-24 2022	-	Scopus	-	-	-
17	**Giridhar Balakrishna R**, Venu Sonti, Sachin Jain, **P V R L Narasimham**	Switched Capacitor Based High-Gain DC-DC Converter for Low-Voltage Power Generation Application	IEEE Second International Conference on Power, Control and Computing Technologies, (ICPC²T – 2022), National Institute of Technology Raipur, Chhattisgarh, March 1–3 2022	10.1109/ICPC2T53885.2022.9777052	Scopus	IEEE	-	-
18	**M L N Vital**, Venu Sonti, **P V R L Narasimham**, Sachin Jain	Switched Capacitor Based Transformerless Five-Level Inverter for the Minimization of Leakage Current in PV Systems	IEEE Second International Conference on Power, Control and Computing Technologies, (ICPC²T – 2022), National Institute of Technology Raipur, Chhattisgarh, March 1–3 2022	10.1109/ICPC2T53885.2022.9776728	Scopus	IEEE	-	-
19	**V. Hari Vamsi, G Srinivasa Rao**, B. Mahesh Babu, G. Kishore Babu, A. Amarendra	Multi Quadrant Operation of BLDC Motor-driven Electric Hybrid Vehicle	4th International Conference on energy, Power and Environment (ICEPE-2022), NIT Meghalaya, during 29th April -01st May, 2022	10.1109/ICEPE55035.2022.9798152	Scopus	IEEE	-	-

Sl. No.	Author Name	Title of the Paper	Publication Details	DOI	SCI/SCIE/ SCOPUS/WOS/ UGC	Publisher	Citation Details	UG/ PG
20	**Dr. Gummadi Srinivasa Rao**, T SrinivasaRao, Dr. B.Mahesh Babu	A Virtual Power Plant Engineering With Distributed Energy Resources: A Review	International Conference on Power electronics and Sustainable Development System (ICPESD-2022), NIT Jamshedpur, 23-24, April 2022	-	Scopus	-	-	-
21	G. Sanjay Kumar, **S. N. V. S. K. Chaitanya**, **B. Venkateswara Rao**, R. Ashok Bakkiyaraj	Optimal Reactive Power Dispatch solution accomplished with incorporation of Solar power using Harris Hawks Optimizer Algorithm	4th International Conference on Energy, Power and Environment (ICEPE-2022), National Institute of Technology Meghalaya, 29 April-01 May, 2022	10.1109/ICEPE55035.2022.9798031	Scopus	IEEE	-	PG
22	N. Keerthi, A. Raghuram, **Ramesh Jayaraman**	Interfacing of Online and Offline Voting System with an E-Voting Website	2022 6th International Conference on Devices, Circuits and Systems (ICDCS), 2022	10.1109/ICDCS54290.2022.9780681	Scopus	IEEE	-	UG
23	T. Gopi Krishna, **Paruchuri Chandra Babu Naidu**, Kumar Cherukupalli, **A. Veera Reddy,** M. Sravani	Smart Energy Grid Using IoT	2022 Trends in Electrical, Electronics, and Computer Engineering Conference (TEECCON), REVA UNIVERSITY, Bengaluru, India, 26th and 27th May, 2022	-	Scopus	IEEE	-	UG
24	Doddigalla Anusha, **Subhojit Dawn**, Mandepudi Bhargav, Ganta Vimal Sharon, T. Sai Sowmya, Ch. Sunil Kumar	Economic Enhancement of Wind Farm Integration in Deregulated Power System	7th Student's Conference on Engineering and Systems (SCES-2022), MNNIT Allahabad, India, 1-3 July 2022	-	Scopus	IEEE	-	UG
25	Ch. Sunil Kumar, T. Sai Sowmya, Sk. Mounib Baig, Doddigalla Anusha, **Subhojit Dawn**	Impact Assessment of Solar PV in Deregulated Power Market	7th Student's Conference on Engineering and Systems (SCES-2022), MNNIT Allahabad, India, 1-3 July 2022	-	Scopus	IEEE	-	UG

Book Chapters

Sl. No	Author Name	Title of the Paper	Publication Details	DOI	SCOPUS/ WOS/ UGC	Publishers	Citation Details	UG/ PG
1	V. Santhoshi Raju, **P. Venkatesh**	Optimal LFC regulator for frequency regulation in multi area power system	Singh, P.K., Kolekar, M.H., Tanwar, S., Wierzchoń, S.T., Bhatnagar, R.K. (eds) Emerging Technologies for Computing, Communication and Smart Cities. Lecture Notes in Electrical Engineering, vol. 875. Springer, 2022	10.1007/978-981-19-0284-0_27	-	Springer	-	PG
2	Tungala Joshiram, **S.V.R. Lakshmi Kumari**	Power Quality Enhancement and Low Voltage Ride through Capability in Hybird Grid Interconnected System by Using D-FACTS	Singh, P.K., Kolekar, M.H., Tanwar, S., Wierzchoń, S.T., Bhatnagar, R.K. (eds) Emerging Technologies for Computing, Communication and Smart Cities. Lecture Notes in Electrical Engineering, vol. 875. Springer, 2022	10.1007/978-981-19-0284-	-	Springer	-	PG
3	Aravind, T., **Rao, B.S**	Optimal Power Flow Using Firefly Algorithm with Solar Power	Singh, P.K., Kolekar, M.H., Tanwar, S., Wierzchoń, S.T., Bhatnagar, R.K. (eds) Emerging Technologies for Computing, Communication and Smart Cities. Lecture Notes in Electrical Engineering, vol 875. Springer, 2022	10.1007/978-981-19-0284-0_28	-	Springer	-	PG
4	Papi Naidu, T., **Venkateswararao, B**., Balasubramanian, G	Whale Optimization Algorithm Based Optimal Power Flow to Reduce Generation Cost	Nayak, J., Behera, H., Naik, B., Vimal, S., Pelusi, D. (eds) Computational Intelligence in Data Mining. Smart Innovation, Systems and Technologies, vol. 281. Springer, 2022	10.1007/978-981-16-9447-9_20	Scopus	Springer	-	UG
5	Varma, G.K., **Rao, B.V.**	Multi-objective Optimal Power Flow Using Whale Optimization Algorithm Consists of Static VAR Compensator	Sengodan, T., Murugappan, M., Misra, S. (eds) Advances in Electrical and Computer Technologies. Lecture Notes in Electrical Engineering, vol. 881. Springer, 2022	10.1007/978-981-19-1111-8_66	Scopus	Springer	-	UG

Sl. No	Author Name	Title of the Paper	Publication Details	DOI	SCOPUS/ WOS/ UGC	Publishers	Citation Details	UG/ PG
6	**K Dhananjay Rao**, Lakshya Rani Inteti, Preetham Penmetsa and Chaitanya Ghanta	Design of Lithium-Ion Battery Thermal Management System for Vehicular Applications	EPREC-2022, Lecture Notes in Electrical Engineering, NIT, Jamshedpur, 2022	-	Scopus	Springer	-	UG

FACULTY INTERACTION WITH OUTSIDE WORLD

1. Dr. B. Srinivasa Rao, Prof/EEE has been recognized by IEEE as Senior Member in the year of Dec 2021

2. Dr.Subhojit Dawn, Assistant Professor/EEE has received Best Associate Editor Award from Journal of Electrical Engineering and Technology

RESULT ANALYSIS (BATCH: 2018-2022)

S. No	SEMESTER	PASS PERCENTAGE
1.	First Semester	86.55
2.	Second Semester	73.55
3.	Third Semester	61.19
4.	Fourth Semester	65.19
5.	Fifth Semester	78.57
6.	Sixth Semester	79.86
7.	Seventh Semester	84.89
8.	Eighth Semester	94.24

DEPARTMENT TOPPERS

CGPA: 9.50

VEMPATI VENKATA SAI SRIYA

(188W1A0257)

CGPA: 9.48

DODDIGALLA ANUSHA

(188W1A0273)

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.

Name of the Company	Pay package (LPA)	No of Students
TEXAS INSTRUMENTS	25	1
TCS DIGITAL	7.2	1
WIPROTURBO	6.5	3
MU-SIGMA	6	7
ADANI	6	2
ZF	6	1
VALUE LABS	5.5	2
ERUVAKA TECHNOLOGIES	5	1
VOIS	5	1
ACCENTURE	4.5	7
ORBCOMM TECHNOLOGIES INDIA PVT LTD	4.5	1
ITCINFOTECH	4.25	6
IBM	4.25	2
GENC ELEVATE	4.2	1
GEN C	4	27
CAPGEMINI	4	6
CONTELLIGENT	4	1
NAVKONE	4	1
KPIT	4	1
HEXAWARE	4	3
TCS NINJA	3.96	12
IMEG	3.6	1
INFOSYS	3.6	10
WIPRO	3.65	17
WIPRO	3.5	4
QUEST GLOBAL	3.25	4
NAVKONE	3	1
Total no of selected students		**124**

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

TRAINING & PLACEMENTS SELECTED LIST A.Y 2021-22

COMPANY NAME	PAY PACKAGE (LPA)	NO. OF STUDENTS
Texas Instruments	25.00	1
TCS Digital	7.20	1
wipro TURBO	6.50	3
Mu Sigma DO THE MATH	6.00	7
adani	6.00	2
ZF	6.00	1
ValueLabs	5.50	2
Eruvaka	5.00	1
VOIS	5.00	1
accenture	4.50	7
ORBCOMM	4.50	1
ITC INFOTECH	4.25	6
IBM	4.25	2
Cognizant ELEVATE	4.20	1

COMPANY NAME	PAY PACKAGE (LPA)	NO. OF STUDENTS
Cognizant	4.00	27
Capgemini	4.00	6
Cotelligent	4.00	1
NAVKONE	4.00	1
KPIT	4.00	1
HEXAWARE	4.00	3
tcs NINJA	3.96	12
wipro	3.65	17
Infosys	3.60	10
IMEG	3.60	1
wipro	3.50	4
QUEST	3.25	4
NAVKONE	3.00	1

Total selected students: 124

VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE
(AUTONOMOUS)

Dr.P.V.R.L.Narasimham, Prof & Head Appreciating the Achievers

STUDENTS ONLINE COURSES THROUGH NPTEL

INTRODUCTION TO INTERNET OF THINGS (17EE2506B)

S.NO	REG.NO	NAME	COURSE TITLE
1.	198W1A0201	Aare Anand	Introduction to Internet of Things
2.	198W1A0204	Annapareddy Harshini Subrahmanyeswari	Introduction to Internet of Things
3.	198W1A0205	Arepu Naga Sai Sowmya	Introduction to Internet of Things
4.	198W1A0206	Avanigadda Daveed	Introduction to Internet of Things
5.	198W1A0207	Bollavarapu Prabhu Nandan Paul	Introduction to Internet of Things
6.	198W1A0208	Bommareddy Sri Nikitha	Introduction to Internet of Things
7.	198W1A0210	Chandaka Chaitanya	Introduction to Internet of Things
8.	198W1A0212	Cherukuneedi Nitin Kumar	Introduction to Internet of Things
9.	198W1A0213	Chikatimarla Raajitha	Introduction to Internet of Things
10.	198W1A0215	Chitturi Sanjay	Introduction to Internet of Things
11.	198W1A0216	Dammu Sivajyothi	Introduction to Internet of Things
12.	198W1A0217	Dasari Praneeth Kumar	Introduction to Internet of Things
13.	198W1A0218	Devarakonda Susmitha	Introduction to Internet of Things
14.	198W1A0221	Eedupuganti Manojna	Introduction to Internet of Things
15.	198W1A0222	Evuri Bhargavi	Introduction to Internet of Things
16.	198W1A0223	Gudidha Anusha	Introduction to Internet of Things
17.	198W1A0224	Gulle Deepika	Introduction to Internet of Things
18.	198W1A0225	Hari Sai Niharika	Introduction to Internet of Things
19.	198W1A0226	Jyoshitha Yannam	Introduction to Internet of Things
20.	198W1A0227	Kodamanchili Jayanth	Introduction to Internet of Things
21.	198W1A0228	Kollati Harsha Sai Tatwik	Introduction to Internet of Things
22.	198W1A0229	Kolusu Vara Lakshmi	Introduction to Internet of Things
23.	198W1A0231	Koritala Srilakshmi	Introduction to Internet of Things
24.	198W1A0232	Koyala Naveen Kumar	Introduction to Internet of Things
25.	198W1A0234	Lanka Rakesh	Introduction to Internet of Things
26.	198W1A0235	Mannem Divya	Introduction to Internet of Things

S.NO	REG.NO	NAME	COURSE TITLE
27.	198W1A0236	Marri Vennela	Introduction to Internet of Things
28.	198W1A0238	Mohammed Thabassum	Introduction to Internet of Things
29.	198W1A0241	Mukku Mounika	Introduction to Internet of Things
30.	198W1A0242	Nallamanti Indu	Introduction to Internet of Things
31.	198W1A0244	Parisi Shamili	Introduction to Internet of Things
32.	198W1A0246	Peyyala Dinesh	Introduction to Internet of Things
33.	198W1A0247	Ramadandi Shanmukha Rao	Introduction to Internet of Things
34.	198W1A0251	Shaik Ikbal	Introduction to Internet of Things
35.	198W1A0252	Sindhura Balasubramanyam	Introduction to Internet of Things
36.	198W1A0253	Sreeram Lavanya	Introduction to Internet of Things
37.	198W1A0255	Tamminidi Thanmai Reethika	Introduction to Internet of Things
38.	198W1A0256	Thalapala Charan Sai	Introduction to Internet of Things
39.	198W1A0257	Thattukuri Anil Kumar	Introduction to Internet of Things
40.	198W1A0258	Thempalli Tom Priya Darshini	Introduction to Internet of Things
41.	198W1A0259	Thota Vineela	Introduction to Internet of Things
42.	198W1A0261	Vemula Gopala Krishna	Introduction to Internet of Things
43.	198W1A0273	Chilka Hadassa Parimala	Introduction to Internet of Things
44.	198W1A0276	Chowtapally Mahesh Babu	Introduction to Internet of Things
45.	198W1A0284	Ganti Udith	Introduction to Internet of Things
46.	198W5A0210	Bhukya Murali	Introduction to Internet of Things
47.	208W5A0201	Baswa Pavan Kalyan	Introduction to Internet of Things
48.	208W5A0203	Chilla Sitaravamma	Introduction to Internet of Things
49.	208W5A0205	Goli Anuradha	Introduction to Internet of Things
50.	208W5A0206	Gubbala Satyamohan Sarveswar	Introduction to Internet of Things
51.	208W5A0208	Poludasu Eswari	Introduction to Internet of Things
52.	208W5A0209	Bathula Pravalika	Introduction to Internet of Things
53.	208W5A0210	Jamalapuram Mounika	Introduction to Internet of Things
54.	208W5A0211	Katika Pavan Kumar	Introduction to Internet of Things
55.	208W5A0213	Oc Hashar	Introduction to Internet of Things
56.	208W5A0214	Paleti Satyaveni	Introduction to Internet of Things
57.	208W5A0215	Simhadri Sivanarayana	Introduction to Internet of Things

THE JOY OF COMPUTING USING PYTHON (17EE2506A)

S.NO	REG.NO	NAME	COURSE TITLE
1.	198W1A0266	Atmakuri Gopala Krishna	The Joy of Computing using Python
2.	198W1A0268	Batchu Manideepak Kumar	The Joy of Computing using Python
3.	198W1A0272	Chandu Manohara Krishna Vamsi	The Joy of Computing using Python
4.	198W1A0280	Devarapu Chaitanya Priya	The Joy of Computing using Python
5.	198W1A0281	Ejjada Manoj Kumar	The Joy of Computing using Python
6.	198W1A0285	Gartham Vineeth	The Joy of Computing using Python
7.	198W1A0294	Kandikonda S V S K Devi Prakash	The Joy of Computing using Python
8.	198W1A0295	Lanke Koteswara Rao	The Joy of Computing using Python
9.	198W1A0296	Machagiri Akshitha	The Joy of Computing using Python
10.	198W1A02A3	Mudunuru Satya Dev Kumar	The Joy of Computing using Python
11.	198W1A02A8	Palaka Kusuma Sai Sri	The Joy of Computing using Python
12.	198W1A02B2	Ponugoti Leela Venakta Satyanaratana	The Joy of Computing using Python
13.	198W1A02B6	Reddy Harsha Vardhan Manikanta	The Joy of Computing using Python
14.	198W1A02B8	Sadhu Som Sundar	The Joy of Computing using Python
15.	198W1A02B9	Seeram Pujitha	The Joy of Computing using Python
16.	198W1A02C4	Vemula Manasa	The Joy of Computing using Python
17.	198W1A02C5	Voodi Kalandhar	The Joy of Computing using Python
18.	208W5A0207	Polarathi Sai Kiran	The Joy of Computing using Python

PROGRAMMING IN JAVA (17EE2506E)

S.NO	REG.NO	NAME	COURSE TITLE
1.	198W1A0220	Doddaka Yamini	Programming in Java
2.	198W1A0287	Jaliparthi Manasa Vanajakshi	Programming in Java
3.	198W1A0289	Jangam Vardhana	Programming in Java
4.	198W1A0292	Kancharla Sai Anusha	Programming in Java

CLOUD COMPUTING (17EE2506U)

S.NO	REG.NO	NAME	COURSE TITLE
1.	198W1A0288	Jampana Likhita Aishwarya	Cloud Computing
2.	198W1A0298	Maheswara Mallika	Cloud Computing
3.	198W1A0299	Mamidipaka Vijaya Lakshmi	Cloud Computing
4.	198W1A02A0	Manchikanti Narasimha	Cloud Computing
5.	198W1A02A4	Nadakuditi Bhavana	Cloud Computing
6.	198W1A02B1	Penagaluru Sivaram Santhan	Cloud Computing
7.	198W1A02B4	Pulleti Sai Sirisha	Cloud Computing
8.	208W5A0204	Done Vamsi	Cloud Computing

STAFF NPTEL COURSES

S.NO	NAME	COURSE TITLE
1.	Dr. A.Ramadevi	The Joy of Computing using Python
2.	Dr. G.Srinivasa rao	The Joy of Computing using Python
3.	V.Harivamsi	The Joy of Computing using Python
4.	Dr. A Veera Reddy	The Joy of Computing using Python

STUDENTS ACHIEVEMENTS

STUDENT PARTICIPATIONS IN CO-CURRICULAR &EXTRA CURRICULAR ACTIVITIES IN INTRA INSTITUTE:

S. No	Reg.No	Name	Date	Organizing College	Activity	Achievement
1	198W1A0275	Chittimuri Himaja rakhi	1-11-2021	EEE, VRSEC	Group Discussion	First Prize
2	208W5A0214	Paleti Satyaveni	12-10-2021	EEE, VRSEC	Poster Competition	First Prize
3	208W1A0289	MVDSS Srivardhan Sharma	22-12-2021	EEE, VRSEC	Poster Competition	Winner

STUDENT PARTICIPATIONS IN CO-CURRICULAR &EXTRACURRICULAR ACTIVITIES IN INTER INSTITUTES:

S. NO	REG. NO	NAME OF THE STUDENT	DATE	EVENT ORGANIZER	NAME OF THE EVENT	TOPIC	CLASS	TECH/NON-TECH
1.	198W1A0282	Gampa Yuva Tejasree	20-12-2021 24-12-2021	Pantech Solutions, Skill Ap Apssdc Training	5 Days Master Class On Python Programming	Python Programming	3/4eee-B	Tech
2.	188W1A0205	Vineela Arikatla	2021-2022	Sigma Institute Of Engineering, Gujarat.	National Level Quiz On Python Programming	Python Programming	4/4eee-A	Tech
3.	188W1A0237	Nidhi Nagoju	26/10/2021 30/10/2021	Vignan's Nirula Institute Of Technology And Science For Women	A Five Day National Level Workshop On "MATLAB And Its Applications For Project Development In Electrical Engineering	Workshop	4/4EEE-A	TECH
4.	198W1A0282	Gampa Yuva Tejasree	6-12-2021 4-01-2022	Pantech Solutions, Skill Ap Apssdc Training	30 Days Master Class On Artificial Inteligence	Artificial Inteligence	3/4eee-B	Tech
5.	198W1A0272	Ch.Manohara Krishna Vamsi	03/12/2021 14/12/2021	Ap Trek-Ii Ncc	Ncc Ap & Telangana	Ncc	3/4eee-B	Non-Tech
6.	198W1A0294	Ksvsk Devi Prakash	22/01/2022 23/01/2022	Nptel (Iit Madras)	Master Class	Vunet Data-Centric Ai	3/4eee-B	Tech
7.	198W1A0204	A.H.Subramanyeswari	26/01/2022	Pace, Ongole	Republic Quiz	Quiz On Constitution	3/4eee-A	Non-Tech
8.	208W1A0257	Viayasri Nishita B	02/02/2022 03/03/2022	Skill Ap, Apssdc	Master Class	Ev Design	2/4eee-A	Tech
9.	198W5A0210	B.Murali	2022	Cognizance, Iit Delhi	Quiz	Cyber Security	3/4eee-B	Tech
10.	198W5A0210	B.Murali	2022	Manipal University, Jaipur	Quiz	Automotive	3/4eee-B	Tech

STUDENTS QUALIFIED FOR HIGHER STUDIES

S.No	Roll No	Name of the Student	Higher Study Program Name	Name of the Institution/University	Place
1	188W1A0261	M.Anudeep	MS	Hult International Business School, Boston	US
2	188W1A0258	K.Vivek Chowdary	MS	University of central Missouri, Missouri	US
3	188W1A0241	P.Mahitha	MS	Northest Missouri State University, Missouri	US
4	188W1A0242	R.Rajitha	MS	Indiana University, Indianapolis	US
5	188W1A0288	K.Vidhya Nandini	MS	Northern Arizona University, Arizona	US

6	188W1A0229	J.RajMarey	MSc Data Science	Cardiff Metropolitan Unversity	UK
7	188W1A0245	M.Vara Prasad	MSc Data Science	Cardiff Metropolitan Unversity	UK
8	188W1A02A5	P.Lohith Chowdary	MS	Webster University	US
9	188W1A0279	I Lakshya Rani	M.Tech	NIT, AP	India
10	188W1A0244	R.S.Vineel Kumar	MS	Hult International Business School, Boston	US

No. of Students Cleared GATE/CAT/Any other Competitive Examinations

S.No.	Reg. No.	Name	Name of the Exam Qualified
1	EE22S26114146	G.Sandeep Sai	GATE
2	EE22S26115163	ILakshya Rani	GATE
3	EE22S26115117	Keerthi Neelam	GATE
4	0077265	P.Mahitha	GRE
5	0304032	K.Vidhya Nandini	GRE
6	7393612215579390	K.Vidhya Nandini	TOFEL
7	8259469	P.Lohith Chowdary	GRE
8	725158	P.Lohith Chowdary	IELTS
9	0430392	R.Rajitha	GRE
10	629372	R.Rajitha	IELTS
11	045072	R.Varaprasad	IELTS
12	0845059	M.Tejavardhan	GRE
13	0086358	M.Anudeep	GRE
14	036136	M.Anudeep	IELTS
15	0095713	K.Vivek Chowdary	GRE
16	547187	K.Vivek Chowdary	IELTS
17	0077006	K.V.S.Anudeep	GRE
18	0762372	K.K.Sowmya	GRE
19	0077579	R.S.Vineel Kumar	GRE
20	0010810	R.S.Vineel Kumar	IELTS

INNOVATION DAY CELEBRATION

The department of electrical and electronics engineering celebrated Innovation day on 12thOctober-2021. On this occasion, the poster and slogan competition has been organized for students of V R Siddhartha Engineering College in association with Institute Innovation Council (IIC) and Institution of Engineers (IE), India.

Chief Guest:

Dr. Ch. Padmanabha Raju

Professor, PVPSIT, Vijayawada

Convener of Program*:*

Dr. P.V.R.L. Narasimham

Professor and HOD, EEE department, VRSEC

Coordinator of Program:

Mr. K.Dhananjay Rao

Assistant Professor, VRSEC

Faculty Incharge, Institution of Engineers (IE), India

The event started with an inaugural program. Then, the chief guest Dr. Ch. Padmanabha Raju is invited to address the students. He delivered motivational talk about innovation and live projects. Subsequently, Dr. P.V.R.L.Narasimham, Professor and Head of the Department, electrical and electronics addressed the gathering. He elaborated about the importance of real-time students projects with some examples of ex-students projects and their achievements. He also motivated students to think about innovative ideas and its implementation. He said that students are the future technocrats of our country to build up the nation. After the completion of inaugural session, Chief Guest, head of department, faculty members are invited to the poster and slogan presentations. In the poster presentation, students have presented in many emerging areas like smart grids, IOT, machine learning, PV powered satellites, biodegradable batteries etc. Further, in slogan presentation, many interesting and innovative slogans were presented by students. Total 26 students are participated in the various events.

Chief guest, HOD and faculty members have visited the event venue. Then, students presented innovative idea through poster presentation. Afterward, panel members asked

questions to presenters depending on presentation. Finally, the winner has been awarded with prizes. The event has been concluded by program coordinator Mr. K. Dhananjay Rao with vote of thanks.

Name of the event	Name of the student	Regd. Number	Email	Phone	Recognition	Prize money
Poster	Paleti Satyaveni	208W5A0214	Paletisatyaveni123@gmail.com	9989611267	First	Rs. 2000
Poster	K S V S K Devi Prakash	198W1A0294	dprakash2101@gmail.com	9390454179	Second	Rs.1500
Slogan	Pujitha Atluri	208W1A0261	Atluripujitha27@gmail.com	9063826559	First	Rs. 2000
Judge	Dr.Ch. Padmanabha Raju	Professor, PVPSIT	pnraju78@yahoo.com	9246400881	-------	Rs. 3000
					Total Amount	**Rs. 8500**

Photographs of the Event

Dr.P.V.R.L.Narasimham, Professor, HOD/EEE delivering the Keynote address

Ms. Paleti Satyaveni (208W5A0214) secured first prize for Poster Presentation

Ms. Srinivasa Reddy (208W5A0254) Participated for Poster Presentation

Mr. KSVSK Devi Prakash (198W1A0294) secured second prize for Poster Presentation

Mr. V. Kalandar (198W1A02C5) participated for Poster Presentation

Mr. SK. Haseen Baaji (198W1A02C1) participated for Poster Presentation

INDUSTRIAL VISIT

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 generating station and industries like Thermal Power plant VTPS, Loco shed in Vijayawada, ,AP State load dispatch, G.S electricals and Soltek Photovoltek Private limited were the places where students were taken to. A detailed knowledge about the industries was imparted to the students. The department organized visits to the following organizations.

S.No	Date	Touring class	Name of the Industries	Local / Out Side	Place(s)	Faculty visited along with student
1	05-05-2022 & 06-05-2022	3/4 B.Tech	Kumar Pumps & Motors	Local	Tenali	Sri T.Suneel Smt.S. V. R. Lakshmi Kumari Sri N. Vamsi Krishna Sri.V.Ravindranadh Chowdary Smt G.Mythely

BEST PROJECTS

S.No.	Roll No.	Name of the student	Name of the guide	Title of the project	Ranking
1.	188W1A0240	P.Iswarya	Dr. N. Vamsi Krishna	Multifunctional SPY robot with virtual reality	I
	188W1A0248	G.Sajitha			
	188W1A0202	A.Ajay Kumar			
	188W1A0211	E.Shanmukesh			
2.	188W1A0250	S.Vineha	Sri. R. Madhu Sudhana Rao	Electronic eye for blind using raspberry PI	II
	188W1A0205	A.Vineela			
	188W1A0239	P.R.S. Keerthi Reddy			
	198W5A0201	B. Maina			
	188W1A0246	K.Revathi			
3.	188W1A0289	L.Vishnu Vardhan	Sri. R. Giridhar Bala Krishna/ Dr.Cbn	Comparison And Analysis Of SL-DS-DC ConverterWith VM-DC Converter	III
	188W1A02B7	Y.Venkata Raviteja			
	188W1A0272	D.Bharath Teja			
	188W1A02B5	T.Saicharan			

RENEWABLE ENERGY SOURCE

In our college 400kWp solar roof top power plant installed in the Administarive Building, Electrical & Electronics, Mechanical Engineering department, S&H-I and laddies hostel 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

Admin Building
50kWp Solar panels

Admin Building
Solar Inverter

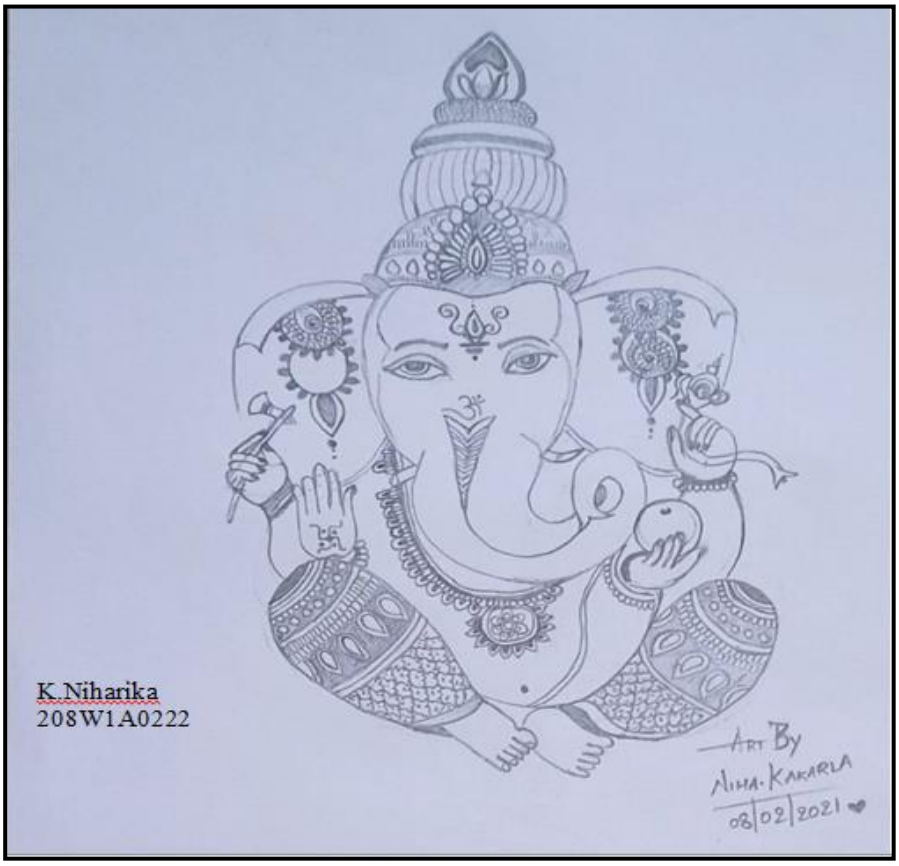
EEE Block 100kWp Solar Panels

EEE Block Solar Inverter

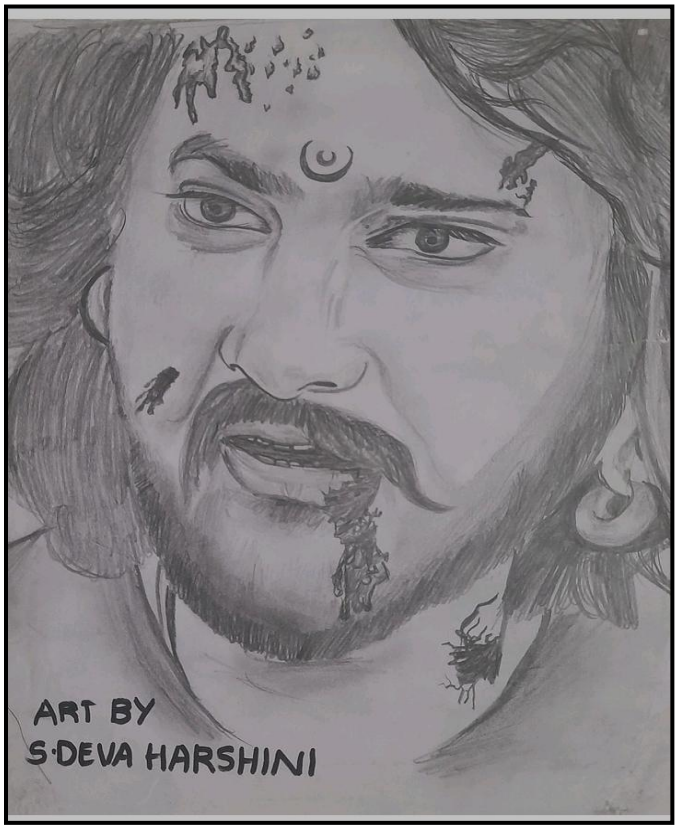
ME Department 150kWp Solar panels

S&H Block-I 50kWp Solar Panels

ART GALLERY


K.Niharika
208W1A0222
Art By
Nitha Kakarla
08/02/2021

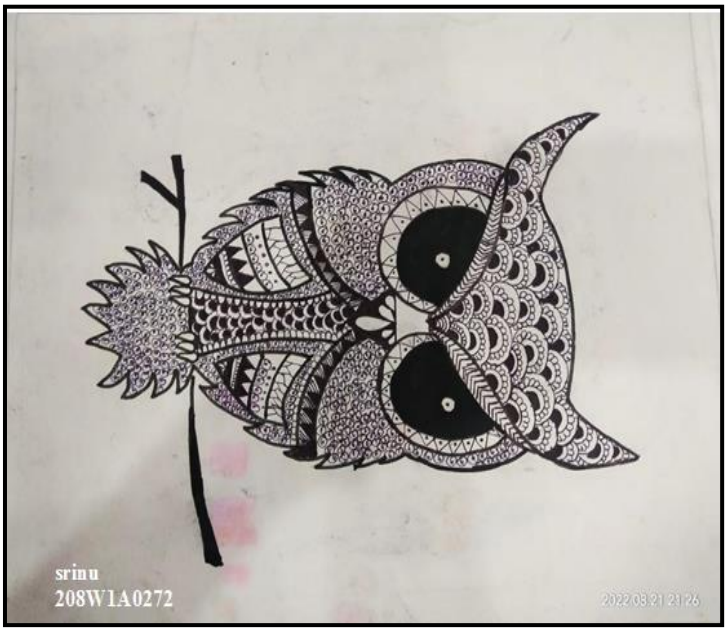

G. Kumar
208W1A0217


ART BY
S.DEVA HARSHINI


Art By: Niha
K.Niharika
208W1A0222


Experience Solitude,
Explore Yourself.
Meghana Priya
208W1A0229


Art By
Niha.
K.Niharika
208W1A0222


srinu
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2022.08.21 21:26


S·DEVA HARSHINI


pujitha
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S. Tharun
208W1A0249


K.mohan chand
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ART BY
NIHA
K.Nihanka
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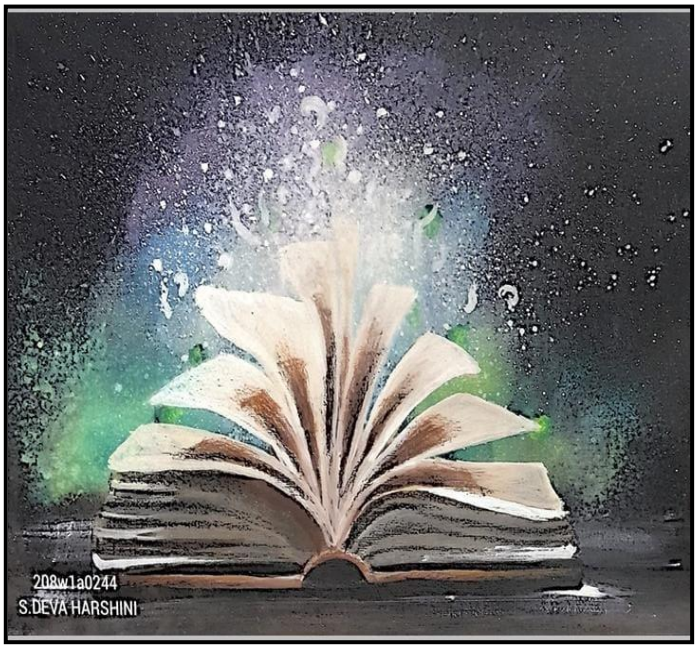
208w1a0244
S.DEVA HARSHINI


S.DEVA HARSHINI
208W1A0244


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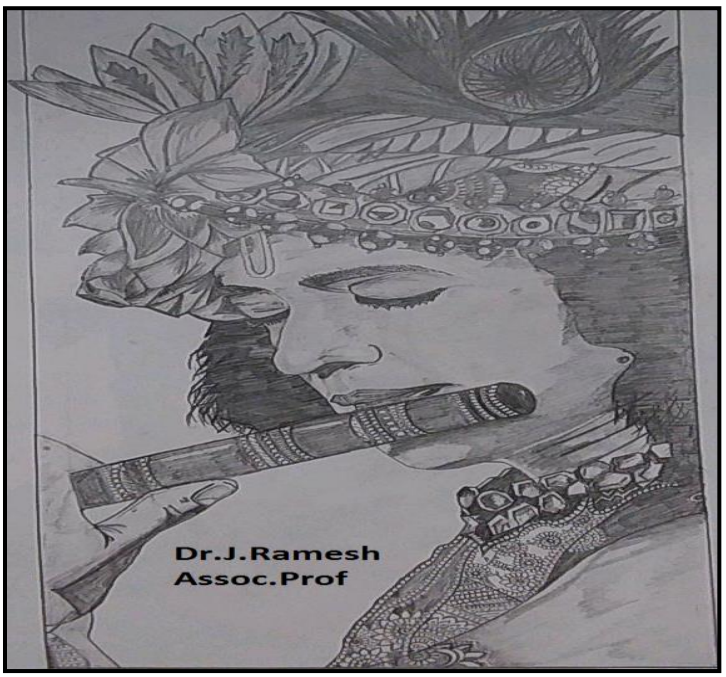
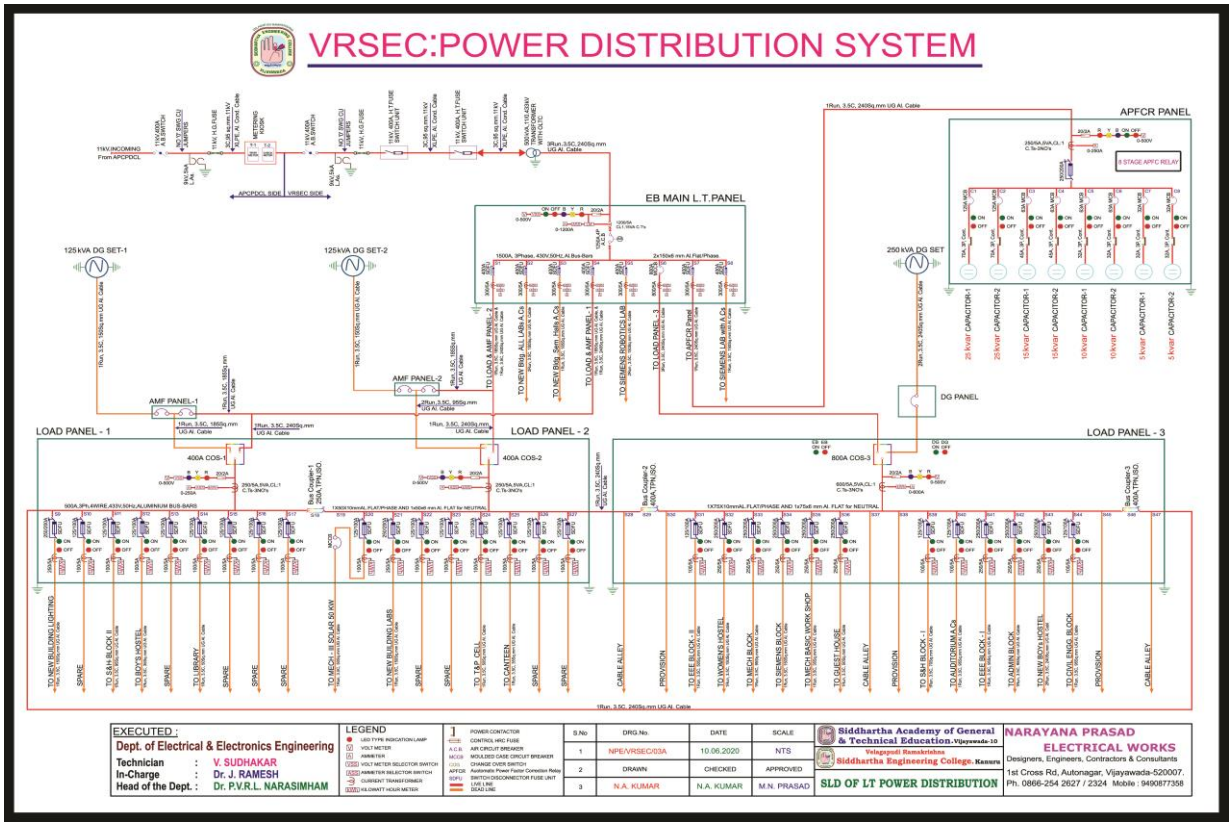
S.DEVA HARSHINI
208W1A0244


B.Sumanth
208W1A0264


Dr.J.Ramesh
Assoc. Prof


Dr.J.Ramesh
Assoc.Prof

POWER HOUSE


VRSEC:POWER DISTRIBUTION SYSTEM
APFCR PANEL
EB MAIN L.T.PANEL
125kVA DG SET-1
125kVA DG SET-2
250 kVA DG SET
AMF PANEL-1
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DG PANEL
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LOAD PANEL - 2
LOAD PANEL - 3
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400A COS-2
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