VOLTA

JULY 2023
ISSUE NO 8

DEPARTMENT OF ELECTRICAL ENGINEERING

NO.8

CONTENTS NO.8

INSTITUTE VISION AND MISSION

INSTITUTE VISION

TO BE A GLOBAL LEADER IN IMPARTING QUALITY TECHNICAL EDUCATION TO PRODUCE COMPETENT, TECHNICALLY INNOVATIVE ENGINEERS IMBIBED WITH RESEARCH APTITUDE, ENTREPRENEURSHIP AND SOCIAL RESPONSIBILITY.

INSTITUTE MISSION

1.TO NURTURE THE STUDENTS WITH FUNDAMENTAL ENGINEERING KNOWLEDGE ENRICHED WITH TECHNICAL SKILLS.
2.TO CREATE CONDUCIVE ENVIRONMENT TO NURTURE INNOVATION AND INTERDISCIPLINARY RESEARCH.
3.TO DEVELOP PROFESSIONALS THROUGH INNOVATIVE PEDAGOGY FOCUSING ON INDIVIDUAL GROWTH, DISCIPLINE, INTEGRITY, ETHICS AND SOCIAL RESPONSIBILITY.
4.TO FOSTER INDUSTRY-INSTITUTION PARTNERSHIPS LEADING TO SKILL DEVELOPMENT AND ENTREPRENEURSHIP.

DEPARTMENTAL VISION AND MISSSION

VISION

TO BE A CENTRE OF ACADEMIC EXCELLENCE FOR IMPARTING PROFESSIONAL COMPETENCE IN THE CORE AREAS OF ELECTRICAL AND ELECTRONICS ENGINEERING TO CONTRIBUTE VALUE TO THE KNOWLEDGE BASED ECONOMY AND SOCIETY.

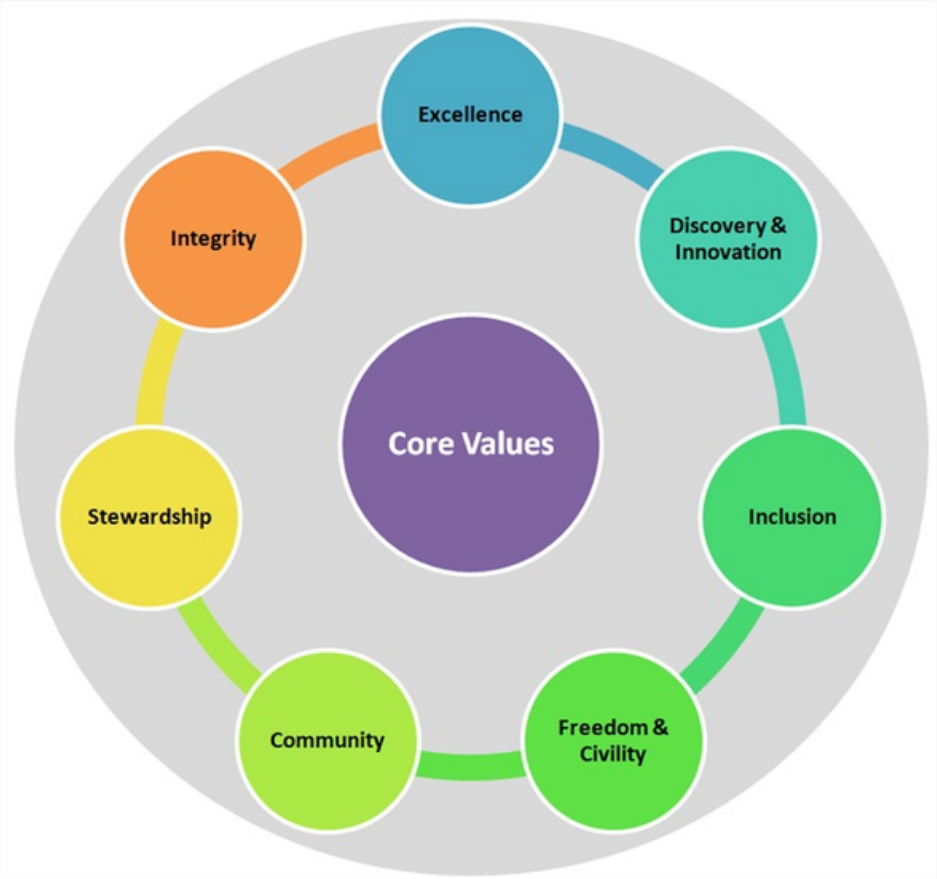
MISSION

M1: TO DELIVER TECHNICALLY COMPETENT AND PROFESSIONALLY ETHICAL ELECTRICAL AND ELECTRONICS ENGINEERS

M2: TO PROVIDE STATE OF THE ART LABORATORIES WITH MODERN EQUIPMENT FOR PRACTICAL EXPOSURE TO THE STUDENTS

M3: TO DEVELOP HUMAN POTENTIAL TO ITS FULLEST EXTENT SO THAT INTELLECTUALS CAPABLE OF BEING AN ASSET TO THE COUNTRY CAN EMERGE.

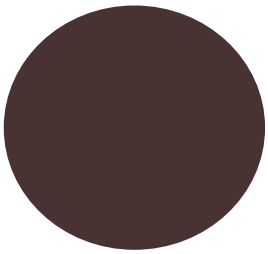
M4: TO ADVANCEMENT OF THE FRONTIERS OF KNOWLEDGE IN ELECTRICAL ENGINEERING AND TO PROVIDE THE STUDENTS WITH A STIMULATING AND REWARDING LEARNING EXPERIENCE



CREDITS / ACKNOWLEDGEMENTS

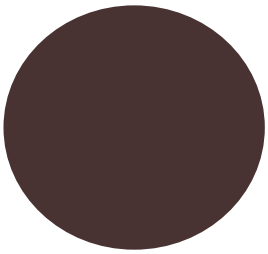
DOUR ESTEEMED INSTITUTION IS HONOURED TO SHOWCASE THE TALENTS OF OUR STUDENTS IN ALL WALKS OF LIFE.

OUR INSTITUITON ALSO HONOURS THE CONTRIBUTIONS OF THE FOLLOWING STUDENTS:



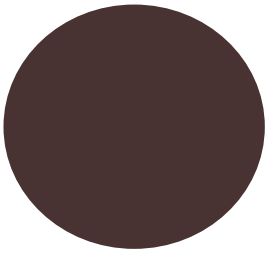
YELLA NAIDU

III YEAR



NEELIMA

II YEAR



MEENAKSHI

I YEAR

PAGE THREE |

CHAIRMAN'S ADDRESS

I AM GREATLY DELIGHTED AT THE PUBLICATION OF THE MAIDEN ISSUE OF "VOLTA" WHICH IS THE ANNUAL MAGAZINE OF DR.K.V.SUBBAREDDY INSTITUTE OF TECHNOLOGY. THIS HAS BEEN A LONGSTANDING DESIRE OF THE COLLEGE MANAGEMENT AND OTHER INTERESTED STAKE HOLDERS. WE NEED TO CELEBRATE THIS DAY, WHEN THIS LONGSTANDING DESIRE HAS COME TO FRUITION. ALSO, A WORD OF CREDIT AND HEARTY CONGRATULATIONS GOES OUT TO ALL THOSE WHO PUT IN SINCERE EFFORTS TO MAKE THIS DESIRE A REALITY.

WE SEE THIS INITIATIVE AS A PLATFORM TO DEVELOP AND SHOWCASE THE CREATIVE SKILLS AND ABILITIES OF STUDENTS...AN OPPORTUNITY FOR STUDENTS, TEACHERS, PARENTS AND ALUMNI TO COME TOGETHER AND EXPRESS THEIR THOUGHTS AND EXCHANGE THEIR IDEAS....AN OPPORTUNITY FOR STUDENTS FOR TEAM WORK AND ASSUMPTION OF LEADERSHIP ROLES WITH FOCUS ON TIME MANAGEMENT AND TIME BOUND COMPLETION OF SCHEDULED PROJECTS.

TWENTY FIRST CENTURY EDUCATION IS NOT ABOUT LEARNING OF FACTS (FOR WHICH WE HAVE GOOGLE TODAY AS AN OMNIPRESENT AID) BUT MORE ORIENTED ON DEVELOPMENT OF CRITICAL THINKING, LOGICAL REASONING, AND PROBLEM-SOLVING SKILLS AND APPLICATION ORIENTATION OF GAINED KNOWLEDGE. IT IS ALSO ABOUT DEVELOPMENT OF SOCIAL SKILLS AND SKILLS LIKE SEAMLESSLY WORKING IN A TEAM, DEVELOPMENT OF LISTENING AND COMMUNICATIONS SKILLS AND OTHER CREATIVE SKILLS LIKE LEADERSHIP, TIME MANAGEMENT AND INTER-PERSONAL RELATIONSHIP BUILDING.

CORRESPONDENT'S ADDRESS

BEFORE START, I AM GRATEFUL FOR THE OPPORTUNITY TO CONTINUE WORKING IN A ROLE WHERE I CAN COLLABORATE WITH DEPARTMENTS WITHIN THE DR.KVSRIT, ACROSS THE COLLEGE AND THE COMMUNITY WE SERVE, TO CONTINUE TO MEET OUR ACADEMIC PLAN, GROWTH STRATEGY AND THE COLLEGE'S VISION AND MISSION.

I HAVE SEEN THE PROGRESS MADE BY THE EFFORTS OF OUR FACULTY, IT IS PROMISING AND MOTIVATING. THE ENGINEERING WING EXPANSION HAS BEEN COMPLETED, WE ARE NOW HOME TO A CUTTING EDGE FACILITY WITH UNIQUE TECHNOLOGICAL FEATURES THAT INTRODUCES OUR STUDENTS TO THE FUTURE. I AM GLAD THAT THIS MONTH IS A TIME OF CLEAR ACHIEVEMENTS. I WOULD ALSO LIKE TO REITERATE OUR GOALS AS A COMMUNITY, "COLLEGES AND UNIVERSITIES WILL DRIVE CREATIVITY, INNOVATION, KNOWLEDGE AND COMMUNITY ENGAGEMENT THROUGH TEACHING AND RESEARCH.

THEY WILL PUT STUDENTS FIRST BY PROVIDING THE BEST POSSIBLE LEARNING EXPERIENCE FOR ALL QUALIFIED LEARNERS IN AN AFFORDABLE AND FINANCIALLY SUSTAINABLE WAY, ENSURING HIGH QUALITY, AND GLOBALLY COMPETITIVE OUTCOMES FOR STUDENTS

Smt.K.VIJAYA LAKSHMAMMA

TWENTY FIRST CENTURY EDUCATION IS NOT ABOUT LEARNING OF FACTS (FOR WHICH WE HAVE GOOGLE TODAY AS AN OMNIPRESENT AID) BUT MORE ORIENTED ON DEVELOPMENT OF CRITICAL THINKING, LOGICAL REASONING, AND PROBLEM-SOLVING SKILLS AND APPLICATION ORIENTATION OF GAINED KNOWLEDGE. IT IS ALSO ABOUT DEVELOPMENT OF SOCIAL SKILLS AND SKILLS LIKE SEAMLESSLY WORKING IN A TEAM, DEVELOPMENT OF LISTENING AND COMMUNICATIONS SKILLS AND OTHER CREATIVE SKILLS LIKE LEADERSHIP, TIME MANAGEMENT AND INTER-PERSONAL RELATIONSHIP BUILDING.

PRINCIPAL'S ADDRESS

THE RESPONSIBILITY ENTRUSTED UPON MY SHOULDERS I INTEND TO FULFIL THE SAME, ANTICIPATING THE FUTURISTIC REQUIREMENTS OF STUDENTS AND TEACHERS ALIKE.

EDUCATION IS A MORALLY HUMBLING AFFAIR. IF ONE WANTS TO IMPART EDUCATION, ONE MUST BE READY TO OVERCOME EVERY OBSTACLE THAT MAY BE FACED ALONG THE WAY.

OUR INSTITUTION AIMS TO MAINTAIN A PHILANTHROPICAL APPROACH LEADING TO NEW IDEAS AND NURTURING TALENTS, CRADLING A DREAM WAITING TO BE CONVERTED INTO REALITY.

DON'T BE AFRAID TO FAIL, IF YOU DON'T FAIL THAT MEANS YOU AREN'T TRYING NEW IDEAS AND TECHNIQUES. "IF I HAVE SEEN FURTHER THAN OTHERS IT IS BY STANDING ON THE SHOULDERS OF A GIANT"

THE ABOVE WORDS ARE WRITTEN BY ISAAC NEWTON AND IT IS A SAYING I DULY LIVE BY.

AS ROBERT FROST ONCE WROTE, "I TRAVELLED THE ROAD LESS TAKEN AND THAT HAS MADE ALL THE DIFFERENCE..." I MUST EMPHASIZE ON HOW IMPORTANT IT IS THAT WE THINK OUT OF THE BOX AND LET OTHERS DO THE SAME.

DR.J.KANNA KUMAR

IF YOU WISH TO SCORE HIGH, WE MUST BE READY TO TAKE THE VIEW IN ALL ITS UNIMAGINABLE TERMS. WE INTEND TO INCULCATE THIS CONFIDENCE IN OUR PRIMARY STAKE HOLDERS ENHANCING THEIR SKILLS IN ALL ASPECTS.

OUR FURTHER ATTEMPT IS TO START WITH THEATRE FOR COLLEGE STUDENTS AND DEVELOPING A GAME ZONE.

WE HAVE ADDED A NEW STREAM 'DATA SCIENCE AND ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING' TO OUR COLLEGE.

I TAKE THIS OPPORTUNITY IN INTRODUCING THE SUBJECTS OF ENGINEERING IN OUR 'DR.K.V.SUBBAREDDY INSTITUTE OF TECHNOLOGY 'IN THE UPCOMING ACADEMIC YEAR.

HEAD OF THE DEPARTMENT ADDRESS

DR.K.V.SUBBAREDDY INSTITUTE OF TECHNOLOGY IS RELEASING ITS
DEPARTMENT NEWS LETTER “WLA”. I WOULD LIKE TO EXPRESS MY SINCERE APPRECIATION TO FACULTY AND EDITOR FOR THEIR
EFFORTS AND DEDICATION INTO A MODERN AND ACCESSIBLE MODE OF
COMMUNICATION WITH THE STUDENTS’ COMMUNITY. IT IS ALWAYS A
PROUD MOMENT IN THE LIFE OF THE SCE THAT ITS DEPARTMENTS
CELEBRATE SUCH OCCASIONS. APART FROM PROVIDING THE QUALITY
EDUCATION, WE CRAVING TO PROVIDE OUR STUDENTS A HOLISTIC LEARNING
EXPERIENCE FOR LIFE. ACADEMIC EXCELLENCE ALONG WITH CO-
CURRICULAR AND EXTRA CO-CURRICULAR ACTIVITIES COMPLETE THE
PROCESS OF EDUCATION.
IT GIVES ME GREAT SATISFACTION THAT SCE IS MAKING PROGRESS IN ALL ITS ENDEAVORS TOWARDS THE OVERALL DEVELOPMENT OF THE STUDENTS. AS I LOOK AHEAD, I CAN VISUALIZE THAT THE COLLEGE WILL GROW IN PURSUIT OF HIGHER STANDARDS OF TEACHING, RESEARCH, AND MAY LEAD TO SHAPE MY DREAMS. IT WILL CONTINUE TO SERVE A SIGNIFICANT ROLE IN HIGHER EDUCATION AND IN THE SERVICE OF THE COUNTRY. MY BLESSINGS AND GOOD WISHES WILL ALWAYS BE WITH THE EEE DEPARTMENT.
MAY GOD GIVE STRENGTH TO SEE THIS DEPARTMENT AND COLLEGE FLOURISHING!

ARTICLES (FACULTY)

B.Prudvi Kumar Reddy

Assistant Professor

ENERGY SAVING ELECTRONICS BREAKTHROUGH – PAVING WAY FOR A CARBON-NEUTRAL SOCIETY

"ONE APPLIES A VOLTAGE TO AN ELECTRONIC DEVICE, AND AS A RESULT THERE IS AN OUTPUT CURRENT USED IN THE APPLICATION. INSIDE THIS ELECTRONIC DEVICE IS AN ELECTRIC FIELD WHICH DETERMINES HOW THIS DEVICE WORKS AND HOW LONG IT WILL BE OPERATIONAL AND HOW GOOD ITS OPERATION IS. NO ONE COULD ACTUALLY MEASURE THIS ELECTRIC FIELD, SO FUNDAMENTAL TO THE DEVICE OPERATION. ONE ALWAYS RELIED ON SIMULATION WHICH IS HARD TO TRUST UNLESS YOU CAN ACTUALLY TEST ITS ACCURACY."

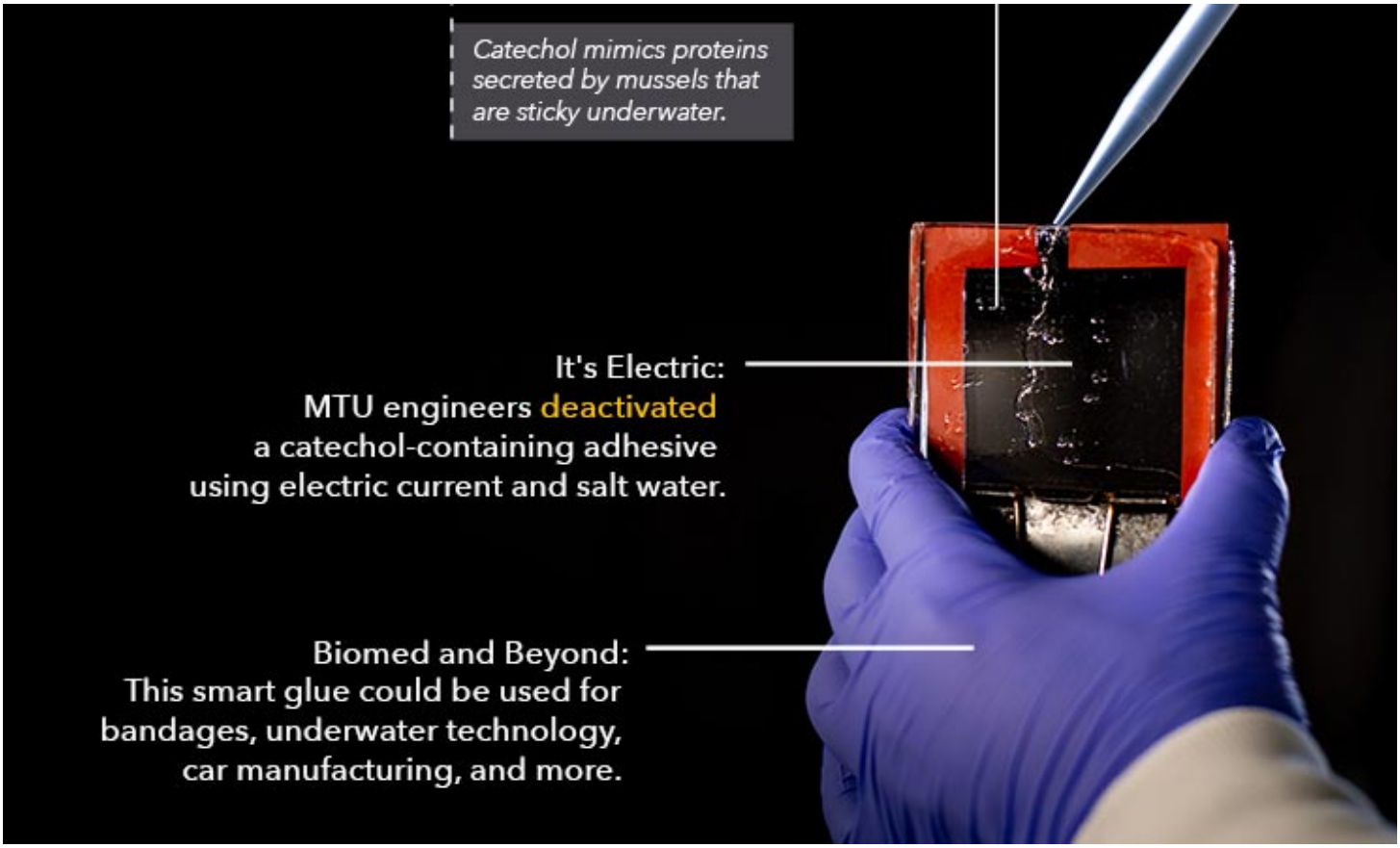
TO MAKE GOOD PERFORMANCE AND LONG-LASTING ELECTRONIC DEVICES OUT OF THESE NEW MATERIALS IT IS IMPORTANT THAT RESEARCHERS FIND THE OPTIMAL DESIGN, WHERE ELECTRIC FIELDS DO NOT EXCEED THE CRITICAL VALUE WHICH WOULD RESULT IN THEIR DEGRADATION OR FAILURE. EXPERTS PLAN TO USE NEWLY EMERGING MATERIALS SUCH AS GALLIUM NITRIDE AND GALLIUM OXIDE RATHER THAN SILICON, ALLOWING OPERATION AT HIGHER FREQUENCY AND AT HIGHER VOLTAGES, RESPECTIVELY, SO THAT NEW CIRCUITS ARE POSSIBLE WHICH REDUCE ENERGY LOSS. THIS WORK PUBLISHED BY THE UNIVERSITY OF BRISTOL GROUP WILL PROVIDE AN OPTICAL TOOL TO ENABLE THE DIRECT MEASUREMENT OF ELECTRIC FIELD WITHIN THESE NEW DEVICES. THIS WILL UNDERPIN FUTURE EFFICIENT POWER ELECTRONICS IN APPLICATIONS SUCH AS SOLAR OR WIND TURBINE STATIONS FEEDING INTO THE NATIONAL GRID, ELECTRIC CARS, TRAINS, AND PLANES. REDUCED ENERGY LOSS MEANS SOCIETIES DO NOT NEED TO PRODUCE AS MUCH ENERGY IN THE FIRST PLACE.

"CONSIDERING THAT THESE DEVICES ARE OPERATED AT HIGHER VOLTAGES, THIS ALSO MEANS ELECTRIC FIELDS IN THE DEVICES ARE HIGHER AND THIS, IN TURN, MEANS THEY CAN FAIL EASIER. THE NEW TECHNIQUE WE HAVE DEVELOPED ENABLES US TO QUANTIFY ELECTRIC FIELDS WITHIN THE DEVICES, ALLOWING ACCURATE CALIBRATION OF THE DEVICE SIMULATIONS THAT IN TURN DESIGN THE ELECTRONIC DEVICES SO THE ELECTRIC FIELDS DO NOT EXCEED CRITICAL LIMITS AND FAIL."

ARTICLES (FACULTY)

S.Masum Basha

Assistant Professor



WITH A SMALL ZAP OF ELECTRICITY, AN UNDERWATER SMART GLUE PROTOTYPE FROM STICKY TO NOT IN SEVEN SECONDS.

TURNING ADHESION ON AND OFF IS WHAT MAKES A GLUE SMART. IT'S ONE THING TO DO THIS IN THE OPEN AIR AND QUITE ANOTHER UNDER WATER. INSPIRED BY NATURE, CATECHOLS ARE SYNTHETIC COMPOUNDS THAT MIMIC THE WET-BUT-STILL-STICKY PROTEINS SECRETED BY MUSSELS AND OFFER PROMISE FOR SMART ADHESIVES THAT WORK IN WATER. THE TECHNOLOGY COULD HELP WITH UNDERWATER GLUE, WOUND DRESSINGS, PROSTHETIC ATTACHMENTS OR EVEN MAKING CAR PARTS AND IN OTHER MANUFACTURING.
"A LOT OF PEOPLE HAVE BEEN USING CATECHOL TO MIMIC MUSSELS AND THEIR ADHESIVE PROTEINS, BUT APPLYING ELECTRICITY TO DEACTIVATE IT IS NEW,". "IT'S MORE CONVENIENT THAN USING PH LIKE WHAT WE WERE USING BEFORE AND IT SHOULD BE EASIER TO INTEGRATE WITH ELECTRONIC DEVICES, WHICH MEANS DETACHING COULD BE AUTOMATED AND COULD BE AS SIMPLE AS PUSHING A BUTTON."

ARTICLES (STUDENT)

ENGINEERS CREATE SEEDS FOR GROWING NEAR-PERFECT 2D PEROVSKITE CRYSTALS.

RESEARCHERS USE A FERROELECTRIC GLASS ELECTROLYTE WITHIN AN ELECTROCHEMICAL CELL TO CREATE SIMPLE SELF-CHARGING BATTERIES. A NEW TYPE OF BATTERY COMBINES NEGATIVE CAPACITANCE AND NEGATIVE RESISTANCE WITHIN THE SAME CELL, ALLOWING THE CELL TO SELF-CHARGE WITHOUT LOSING ENERGY, WHICH HAS IMPORTANT IMPLICATIONS FOR LONG-TERM STORAGE AND IMPROVED OUTPUT POWER FOR BATTERIES.

THESE BATTERIES CAN BE USED IN EXTREMELY LOW-FREQUENCY COMMUNICATIONS AND IN DEVICES SUCH AS BLINKING LIGHTS, ELECTRONIC BEEPERS, VOLTAGE-CONTROLLED OSCILLATORS, INVERTERS, SWITCHING POWER SUPPLIES, DIGITAL CONVERTERS AND FUNCTION GENERATORS, AND EVENTUALLY FOR TECHNOLOGIES RELATED TO MODERN COMPUTERS.

“THE GLASS ELECTROLYTE WE DEVELOPED WAS LITHIUM-RICH, AND SO I THOUGHT THAT WE COULD MAKE A BATTERY IN WHICH THE ELECTROLYTE WOULD FEED BOTH ELECTRODES WITH LITHIUM IONS, ON CHARGE AND DISCHARGE WITH NO NEED FOR LITHIUM METAL,”

THIS WORK IS SIGNIFICANT BECAUSE IT UNIFIES THE THEORY BEHIND ALL SOLID-STATE DEVICES — SUCH AS BATTERIES, CAPACITORS, PHOTOVOLTAICS, AND TRANSISTORS – WHERE THE DIFFERENT MATERIALS IN ELECTRICAL CONTACT EXHIBIT THE PROPERTIES OF THE COMBINED MATERIAL INSTEAD OF THOSE OF THE INDIVIDUAL MATERIALS.

“WHEN ONE OF THE MATERIALS IS AN INSULATOR OR DIELECTRIC, SUCH AS AN ELECTROLYTE, IT WILL LOCALLY CHANGE ITS COMPOSITION TO FORM CAPACITORS THAT CAN STORE ENERGY AND ALIGN THE FERMI LEVELS WITHIN THE DEVICE,” SAID BRAGA. IN A BATTERY, THE OPEN CIRCUIT POTENTIAL DIFFERENCE BETWEEN ELECTRODES IS DUE TO AN ELECTRICAL NEED TO ALIGN THE FERMI LEVELS, A MEASURE OF THE ENERGY OF THE LEAST TIGHTLY HELD ELECTRONS WITHIN A SOLID, WHICH IS ALSO RESPONSIBLE FOR THE POLARITY OF THE ELECTRODES. THE CHEMICAL REACTIONS COME LATER AND ARE FED BY THIS ELECTRICAL POTENTIAL ENERGY STORED IN THE CAPACITORS.

EVENTS AND ORGANISATIONS

EVENTS CONDUCTED BY DEPARTMENT OF EEE

For every academic year department of EEE conducts different organizational events for the betterment of the students
The following are the events conducted by the department EEE

Guest Lecture on“Basics of MAT Lab”

MATLAB is a proprietary multi-paradigm programming language and numeric computing environment developed by MathWorks. MATLAB allows matrix manipulations, plotting of functions and data, implementation of algorithms, creation of user interfaces, and interfacing with programs written in other languages.

This program is conducted on 09-10-2022 by S.Abdul RehmanElectrical EngineerKG Mech Pvt Ltd.

A National Level Workshop on“Electrical Systems in Construction Industry”

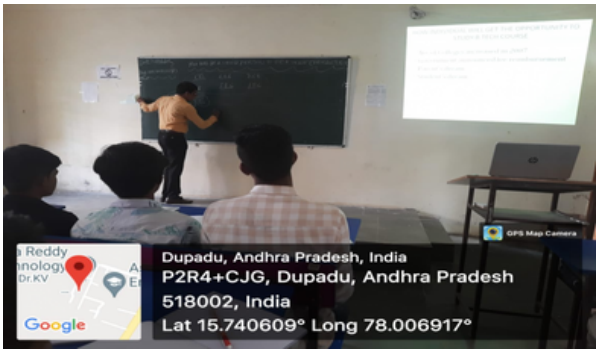
Electrical systems in these buildings begin at a step-down transformer provided by the utility company and located within or very close to the building. The transformer reduces the standard line potential to two dual voltage systems, which then pass through master switches and electric meters to record the subscriber’s usage. Each of the voltages provided serves a separate category of use; different levels are required for incandescent lights and small appliances, large appliances, ceiling-mounted non-incandescent lighting, and heavy machinery

This program is conducted on 28-10-2022

A Project Expo on“Technovation-2K22”

The EEE Dept of the College, in association with AEEE, organised a demo-cum-expo of as many as 14 student projects completed by the B Tech (EEE) students, in the Basic Electrical Lab of the College The event was intended to showcase the variety, the quality and the standards of the projects taken up by the students of the EEE Dept. The event was much appreciated and a large number of students, faculty and staff of the College visited the expo.

This program is conducted on 06-12-2022 by EEE Students



Guest Lecture on“Hybrid Electrical Vehicles”

A Hybrid Electric Vehicle is a type of vehicle that uses a combination of an Internal Combustion (IC) engine and an electric propulsion system. The electric powertrain may enhance fuel efficiency, increase performance, or independently propel the vehicle on pure electric power, depending on the type of hybrid system.

This program is conducted on 30-01-2023 by Dr. K.Siva ReddyProfessorGPEC College (Autonomous)Kurnool

Industrial Visit“One-day industrial visit to Andhra Pradesh Solar Power Corporation Private Limited, Ghani”.

GHANI SOLAR PARK. KURNOOL A.P. BUSINESSES / SOLAR POWER / GHANI SOLAR PARK. Previous Next. India’s solar installed capacity reached 20 GW in February 2018. India expanded its solar-generation capacity 8 times from 2,650 MW on 26 May 2014 to over 20 GW

This program is conducted on 04-04-2023 by Mr. P.NarendraAssistant Professor, Dr.KVSRIT, Kurnool.

Industrial Visit on
“Industrial Visit
Rayalaseema Thermal Power Project (RTPP)”

Industrial visits, often referred to as industry visits for students, are an essential part of the academic curriculum in most of the graduate and Post-graduate courses. Being a part of interactive learning, such educational visits give students major exposure to real working environments along with a practical perspective of a theoretical concept relevant to their domain. The objective of industrial visits is to bridge the widening gap between theoretical learning and practical exposure by giving students first-hand exposure to identify the inputs and outputs of different business operations and processes performed at the workplace.

Webinar
Conducted on
“One-week Add-on program on Switching power supplies and brushless fans”

Switching power supplies are essential components in electronic systems. They efficiently convert electrical energy from one form to another, providing a stable output voltage or current.

STUDENTS ACHIEVEMENTS

STUDENTS ACHIEVEMENTS OF DEPARTMENT OF EEE

SNo	Batch No./Guide	Roll No.	Name(s) of the Students	Title of the Project	Project Type
1	K.Rajesh Assistant Professor	19FH1A0216	Kamsali Santosh	Electricity Theft Detection by using IOT	Application
		19FH1A0201	Jadala Sujatha		
		19FH1A0214	Jowli Parvesh		
		20FH5A0224	Sharme Mahaboob Basha		
		20FH5A0203	Mendubeku Ayesha Ruksana		
2	K.Mahesh Assistant Professor	20FH5A0208	Bopathi Tarunkumar Reddy	Hybrid Inverter With Solar Battery Charging	Application
		19FH1A0205	Parigela Prashanthi		
		19FH1A0222	Shaik Feroz		
		20FH5A0219	Mangali Harishivaprasad		
		20FH5A0223	Shaik Mahammad Gouse		
3	M.Madhusudhan ReddyAssistant Professor	20FH5A0216	Golla Abhishek	Prepaid Energy Meter	Application
		20FH5A0209	Boya Ashok Kumar		
		20FH5A0214	Dudekula Khalandar Baba		
		20FH5A0218	Kammara Vishwanath		
		20FH5A0207	Besta Venkatesh		
		19FH1A0202	Kadiri Ramalakshmi		
4	S.Masum Basha Assistant Professor	20FH5A0213	Dasiraiahgari RaghunathReddy	Power Grid Failure Detection Based on Voltage and Frequency Varience	Application
		19FH1A0203	Soumya M		
		19FH1A0209	Beri Harsha Vardhan		
		20FH5A0204	Patil Sirisha		
		20FH5A0205	Vade Durganandini		
5	V.Nirmala Devi Assistant Professor	20FH5A0206	Banda Seetharamanjineyulu	Battery Monitoring System for EV Vehicles	Application
		19FH1A0206	Pothula Amani		
		19FH1A0215	Kadapala Lakshmanna		
		19FH1A0218	Medhehal Vijay Kumar		
		20FH5A0215	Ediga Dhanunjayudu		
		20FH5A0228	Telugu Venkatesh		
6	A.Mallikarjuna Prasad Associate Professor	20FH5A0217	Gottiganti Venkata Nagendra	Dual Axis Solar Tracking System with Charging Station	Design & Simulation
		19FH1A0212	Devarla Suresh		
		19FH1A0204	Patan Hasreen		
		20FH5A0220	Myreddy Naveenkumar		
		20FH5A0226	Talari Sai Kiran		
7	A.Rajababu Assistant Professor	20FH5A0210	Boya Manu Krishna	Auto Selection of any Available in Three Phase Supply System	Application
		19FH1A0207	Sayyad Hayath Nisha		
		19FH1A0213	Gattu Deepak		
		20FH5A0221	Sangem Chennaiah		
		20FH5A0230	Vadde Ashok Kumar		

FACULTY ACHIEVEMENTS

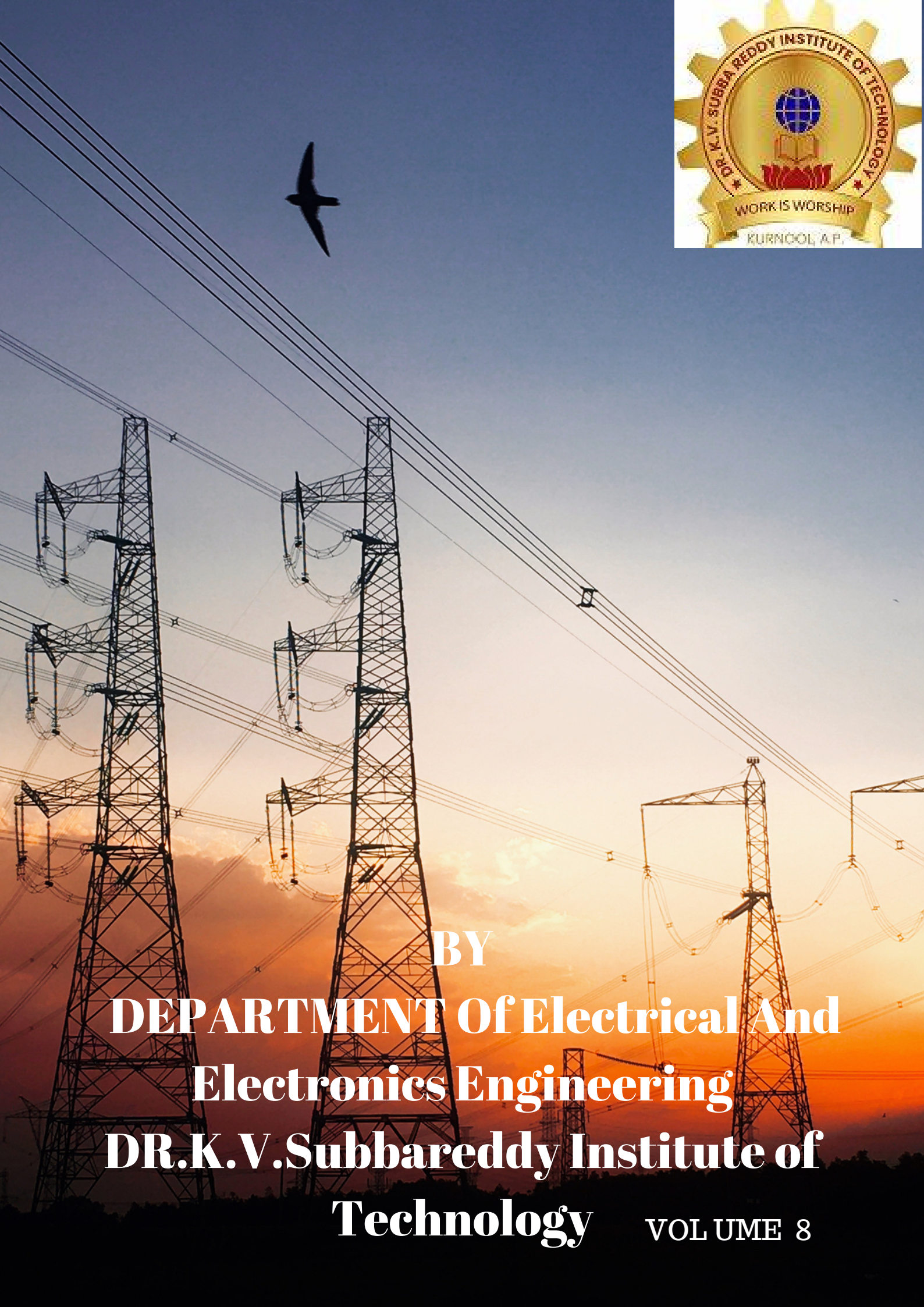
FACULTY ACHIEVEMENTS OF DEPARTMENT OF EEE

S.No	Title of the Paper	Name of the Author	Name of the Journal	Year of Published	ISSN Number	Link to the recognition in UGC enlishment of the journal
1	CONSTANT CURRENT FUZZY LOGIC CONTROLLER FOR GRID CONNECTED ELECTRIC VEHICLE CHARGING	S. VIJAYA KUMAR	Journal of Nonlinear Analysis and Optimization	2020	1906-9685	https://jnao-nu.com/Vol.%2011,%20Issue.%2001,%20January-June%20:%202020.html (https://jnao-nu.com/Vol.%2011,%20Issue.%2001,%20January-June%20:%202020.html)
2	Electric Vehicle Application Based Fuzzy with Vector Control Controlled High Speed SRM	TIRUPATI REDDY GADDAM	Turkish Journal of Computer and Mathematics Education	2020	doi.org/10.61841/turcomat.v11i2.14441 (https://doi.org/10.61841/turcomat.v11i2.14441)	https://turcomat.org/index.php/turkbilmat/article/view/14441.html (https://turcomat.org/index.php/turkbilmat/article/view/14441.html)
3	Closed Loop Control ofBidirectional Buck-Boost Converter inA Smart Grid Using Photovoltaic andEnergy Storage Systems	S. THIRUMALAIAH	Turkish Journal of Computer and Mathematics Education	2020	https://doi.org/10.61841/turcomat.v11i1.14442 (https://doi.org/10.61841/turcomat.v11i1.14442)	https://turcomat.org/index.php/turkbilmat/article/view/14442 (https://turcomat.org/index.php/turkbilmat/article/view/14442)
4	UPFC Based Multilevel Cascade Converter forPower Quality Improvement inDc System	M. MADHUSUDHAN REDDY	Turkish Journal of Computer and Mathematics Education	2020	https://doi.org/10.61841/turcomat.v11i3.14440 (https://doi.org/10.61841/turcomat.v11i3.14440)	https://turcomat.org/index.php/turkbilmat/article/view/14440 (https://turcomat.org/index.php/turkbilmat/article/view/14440)
5	Speed Control of Dc Motor Using Isolated Dc-Dc Converter	K. MAHESH	International Journal of Food and Nutritional Sciences	2021	2320 1775	https://ijfans.org/issue?volume=Volume%2010&issue=Issue%201&year=2021 (https://ijfans.org/issue?volume=Volume%2010&issue=Issue%201&year=2021)
6	Closed Loop Control ofBidirectional Buck-Boost Converter inA Smart Grid Using Photovoltaic andEnergy Storage Systems	S. VIJAYA KUMAR	Turkish Journal of Computer and Mathematics Education	2020	https://doi.org/10.61841/turcomat.v11i1.14442 (https://doi.org/10.61841/turcomat.v11i1.14442)	https://turcomat.org/index.php/turkbilmat/article/view/14442 (https://turcomat.org/index.php/turkbilmat/article/view/14442)
7	Electric Vehicle Application Based Fuzzy with Vector Control Controlled High Speed SRM	S. MASUM BASHA	Turkish Journal of Computer and Mathematics Education	2020	doi.org/10.61841/turcomat.v11i2.14441 (https://doi.org/10.61841/turcomat.v11i2.14441)	https://turcomat.org/index.php/turkbilmat/article/view/14441 (https://turcomat.org/index.php/turkbilmat/article/view/14441)
9	WITH SYMMETRICAL HALF-BRIDGE SUBMODULES AND SENSORLESS VOLTAGE BALANCE	P. NARENDRA	Positif Journal	2022	Issn No : 0048-4911	https://positifreview.com/vol-2022-issue-09/ (https://positifreview.com/vol-2022-issue-09/)
10	SMART GRID POWER QUALITY IMPROVEMENT USING MODIFIED UPQC	M. MADHUSUDHAN REDDY	Positif Journal	2022	Issn No : 0048-4911	https://positifreview.com/vol-2022-issue-12-2/ (https://positifreview.com/vol-2022-issue-12-2/)
11	Linear-Quadratic Regulator Controller with Fuzzy Based High Performance Frequency Converter Controlled Variable-Speed Wind Generator	P. INDUSREE	International journal of Food and Nutritional Sciences	2022	2319 1775	https://ijfans.org/issue?volume=Volume%2011&issue=Issue%201&year=2022 (https://ijfans.org/issue?volume=Volume%2011&issue=Issue%201&year=2022)
12	POWER QUALITY IMPROVEMENT USING DYNAMIC VOLTAGE RESTORER	M. BHASKAR	Journal of Nonlinear Analysis and Optimization	2022	1906-9685	https://jnao-nu.com/Vol.%2013,%20Issue.%2002,%20July-December%20:%202022.html (https://jnao-nu.com/Vol.%2013,%20Issue.%2002,%20July-December%20:%202022.html)
13	SMART GRID POWER QUALITY IMPROVEMENT USING MODIFIED UPQC	K. MAHESH	Positif Journal	2022	Issn No : 0048-4911	https://positifreview.com/vol-2022-issue-12-2/ (https://positifreview.com/vol-2022-issue-12-2/)
14	POWER QUALITY IMPROVEMENT USING DYNAMIC VOLTAGE RESTORER	P. NARENDRA	Journal of Nonlinear Analysis and Optimization	2022	1906-9685	https://jnao-nu.com/Vol.%2013,%20Issue.%2002,%20July-December%20:%202022.html (https://jnao-nu.com/Vol.%2013,%20Issue.%2002,%20July-December%20:%202022.html)
15	CONTROLLING THE CURRENT IN A SMALL-SCALE DC MICROGRID REQUIRES THE USE OF A MULTI-LEVEL CONVERTER	K. SIVARAMUDU	Journal of Nonlinear Analysis and Optimization	2022	1906-9685	https://jnao-nu.com/Vol.%2013,%20Issue.%2002,%20July-December%20:%202022.html (https://jnao-nu.com/Vol.%2013,%20Issue.%2002,%20July-December%20:%202022.html)
16	MODELLING AND DESIGN OF MULTILEVEL CONVERTERS WITH SYMMETRICAL HALF-BRIDGE SUBMODULES AND SENSORLESS VOLTAGE BALANCE	A. RAMESH	Positif Journal	2022	Issn No : 0048-4911	https://positifreview.com/vol-2022-issue-09/ (https://positifreview.com/vol-2022-issue-09/)
17	POWER QUALITY IMPROVEMENT IN HYBRID POWER SYSTEM USING D-STATCOM	A. RAJA BABU	MATERIAL SCIENCE AND TECHNOLOGY	Nov, 2022	ISSN: 1005-0299	https://materialsciencetech.com/mst/issue.php?id=12 (https://materialsciencetech.com/mst/issue.php?id=12)
18	CONTROLLING THE CURRENT IN A SMALL-SCALE DC MICROGRID REQUIRES THE USE OF A MULTI-LEVEL CONVERTER	A. RAMESH	Journal of Nonlinear Analysis and Optimization	2022	1906-9685	https://jnao-nu.com/Vol.%2013,%20Issue.%2002,%20July-December%20:%202022.html (https://jnao-nu.com/Vol.%2013,%20Issue.%2002,%20July-December%20:%202022.html)
19	Linear-Quadratic Regulator Controller with Fuzzy Based High Performance Frequency Converter Controlled Variable-	V. NIRMALA DEVI	International journal of Food and Nutritional Sciences	2022	2319 1775	https://ijfans.org/issue?volume=Volume%2011&issue=Issue%201&year=2022 (https://ijfans.org/issue?

PLACEMENTS

PLACEMENTS SECURED BY STUDENTS OF DEPARTMENT OF EEE

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	SOUMYA M	19FH1A0203	INVENTA JAGANATHAN V	HRD15-04-2023/01
2	PARIGELA PRASHANTHI	19FH1A0205	INVENTA JAGANATHAN V	HRD15-04-2023/02
3	POTHULA AMANI	19FH1A0206	INVENTA JAGANATHAN V	HRD15-04-2023/03
4	SAYYAD HAYATH NISHA	19FH1A0207	INVENTA JAGANATHAN V	HRD15-04-2023/04
5	AKKIM NISHANTH KUMAR	19FH1A0208	INVENTA JAGANATHAN V	HRD15-04-2023/05
6	DEVARAPALLI RAVI TEJA	19FH1A0211	INV ENTAJAGANATHAN V	HRD15-04-2023/06
7	DEVARLA SURESH	19FH1A0212	INVENTA JAGANATHAN V	HRD15-04-2023/07
8	KADAPALA LAKSHMANNA	19FH1A0215	INVENTA JAGANATHAN V	HRD15-04-2023/08
9	KAMSALI SANTOSH	19FH1A0216	INVENTA JAGANATHAN V	HRD15-04-2023/09
10	M NEERAJA	20FH5A0202	INVENTA JAGANATHAN V	HRD15-04-2023/10
11	MENDUBEKU AYESHA RUKSANA	20FH5A0203	INVENTA JAGANATHAN V	HRD15-04-2023/11
12	PATIL SIRISHA	20FH5A0204	INVENTA JAGANATHAN V	HRD15-04-2023/12
13	VADE DURGANANDINI	20FH5A0205	INVENTA JAGANATHAN V	HRD15-04-2023/13
14	BANDA SEETHARAMANJINEYULU	20FH5A0206	INVENTA JAGANATHAN V	HRD15-04-2023/14
15	BESTA VENKATESH	20FH5A0207	INVENTA JAGANATHAN V	HRD15-04-2023/15
16	BOPATHI TARUNKUMAR REDDY	20FH5A0208	INVENTA JAGANATHAN V	HRD15-04-2023/16
17	BOYA ASHOK KUMAR	20FH5A0209	Premier Systems ĀSHWIN P	HR-102/566/309-01
18	BOYA MANU KRISHNA	20FH5A0210	Premier Systems ĀSHWIN P	HR-102/566/309-01
19	BOYA SAIVENKAT NAIDU	20FH5A0211	Premier Systems ĀSHWIN P	HR-102/566/309-01
20	CHAYA VINAY KUMAR	20FH5A0212	Premier Systems ĀSHWIN P	HR-102/566/309-01
21	DASIRAIAHGARI RAGHUNATH REDDY	20FH5A0213	Premier Systems ĀSHWIN P	HR-102/566/309-01
22	DUDEKULA KHALANDAR BABA	20FH5A0214	Premier Systems ĀSHWIN P	HR-102/566/309-01
23	EDIGA DHANUNJAYUDU	20FH5A0215	Premier Systems ĀSHWIN P	HR-102/566/309-01
24	GOTTIGANTI VENKATA NAGENDRA	20FH5A0217	Premier Systems ĀSHWIN P	HR-102/566/309-01
25	MYREDDY NAVEENKUMAR	20FH5A0220	Premier Systems ĀSHWIN P	HR-102/566/309-01
26	SHARME MAHABOOB BASHA	20FH5A0224	Premier Systems ĀSHWIN P	HR-102/566/309-01
27	SURA MAHENDRA REDDY	20FH5A0225	Premier Systems ĀSHWIN P	HR-102/566/309-01
28	TALARI SAI KIRAN	20FH5A0226	Premier Systems ĀSHWIN P	HR-102/566/309-01
29	TELUGU SATHYANARAYANA	20FH5A0227	Premier Systems ĀSHWIN P	HR-102/566/309-01
30	TELUGU VENKATESH	20FH5A0228	Premier Systems ĀSHWIN P	HR-102/566/309-01
31	VADDE ASHOK KUMAR	20FH5A0230	Premier Systems ĀSHWIN P	HR-102/566/309-01



BY

DEPARTMENT Of Electrical And Electronics Engineering

DR.K.V.Subbareddy Institute of Technology

VOLUME 8