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**DEPARTMENT OF ELECTRICAL
ENGINEERING**

NO.7



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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 MISSION

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.

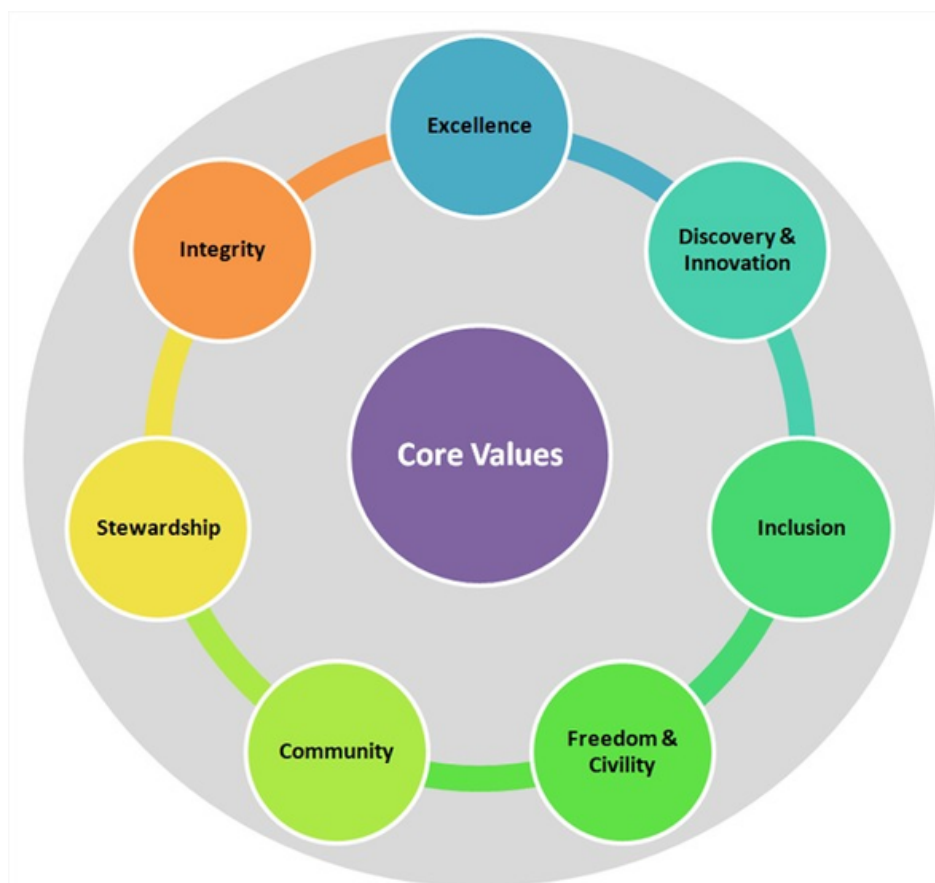
MISSION

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.

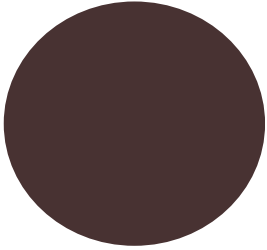
M4: TO ADVANCEMENT OF THE FRONTIERS OF KNOWLEDGE IN ELECTRICAL ENGINEERING AND TO PROVIDE THE STUDENTS WITH A STIMULATING AND REWARDING LEARNING EXPERIENCE



CREDITS / ACKNOWLEDGEMENTS

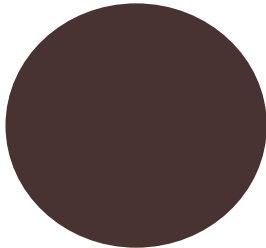
OUR ESTEEMED INSTITUTION IS HONOURED TO SHOWCASE THE TALENTS OF OUR STUDENTS IN ALL WALKS OF LIFE.

OUR INSTITUTION ALSO HONOURS THE CONTRIBUTIONS OF THE FOLLOWING STUDENTS:



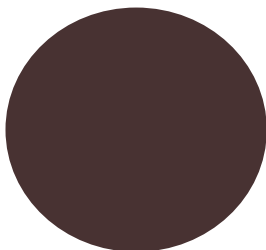
GOLLA ABHISHEK

III YEAR



YELLANAIDU

II YEAR



ASAD

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.



DR.K.V.SUBBAREDDY

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.



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!



DR.S.VIJAYA KUMAR

ARTICLES (FACULTY)



A. Rajababu

Assistant Professor

TINY PARTICLES POWER CHEMICAL REACTIONS

A NEW MATERIAL MADE FROM CARBON NANOTUBES CAN GENERATE ELECTRICITY BY SCAVENGING ENERGY FROM ITS ENVIRONMENT.

THE CURRENT VERSION OF THE PARTICLES CAN GENERATE ABOUT 0.7 VOLTS OF ELECTRICITY PER PARTICLE. IN THIS STUDY, THE RESEARCHERS ALSO SHOWED THAT THEY CAN FORM ARRAYS OF HUNDREDS OF PARTICLES IN A SMALL TEST TUBE. THIS "PACKED BED" REACTOR GENERATES ENOUGH ENERGY TO POWER A CHEMICAL REACTION CALLED AN ALCOHOL OXIDATION, IN WHICH AN ALCOHOL IS CONVERTED TO AN ALDEHYDE OR A KETONE. USUALLY, THIS REACTION IS NOT PERFORMED USING ELECTROCHEMISTRY BECAUSE IT WOULD REQUIRE TOO MUCH EXTERNAL CURRENT.

"BECAUSE THE PACKED BED REACTOR IS COMPACT, IT HAS MORE FLEXIBILITY IN TERMS OF APPLICATIONS THAN A LARGE ELECTROCHEMICAL REACTOR,". "THE PARTICLES CAN BE MADE VERY SMALL, AND THEY DON'T REQUIRE ANY EXTERNAL WIRES IN ORDER TO DRIVE THE ELECTROCHEMICAL REACTION."

IN FUTURE WORK, STRANO HOPES TO USE THIS KIND OF ENERGY GENERATION TO BUILD POLYMERS USING ONLY CARBON DIOXIDE AS A STARTING MATERIAL. IN A RELATED PROJECT, HE HAS ALREADY CREATED POLYMERS THAT CAN REGENERATE THEMSELVES USING CARBON DIOXIDE AS A BUILDING MATERIAL, IN A PROCESS POWERED BY SOLAR ENERGY. THIS WORK IS INSPIRED BY CARBON FIXATION, THE SET OF CHEMICAL REACTIONS THAT PLANTS USE TO BUILD SUGARS FROM CARBON DIOXIDE, USING ENERGY FROM THE SUN.

IN THE LONGER TERM, THIS APPROACH COULD ALSO BE USED TO POWER MICRO- OR NANOSCALE ROBOTS. STRANO'S LAB HAS ALREADY BEGUN BUILDING ROBOTS AT THAT SCALE, WHICH COULD ONE DAY BE USED AS DIAGNOSTIC OR ENVIRONMENTAL SENSORS. THE IDEA OF BEING ABLE TO SCAVENGE ENERGY FROM THE ENVIRONMENT TO POWER THESE KINDS OF ROBOTS IS APPEALING.

"IT MEANS YOU DON'T HAVE TO PUT THE ENERGY STORAGE ON BOARD," HE SAYS. "WHAT WE LIKE ABOUT THIS MECHANISM IS THAT YOU CAN TAKE THE ENERGY, AT LEAST IN PART, FROM THE ENVIRONMENT."

ARTICLES (FACULTY)



Vuluchala Nirmala Devi

Assistant Professor

AN ATOMIC LOOK AT LITHIUM-RICH BATTERIES

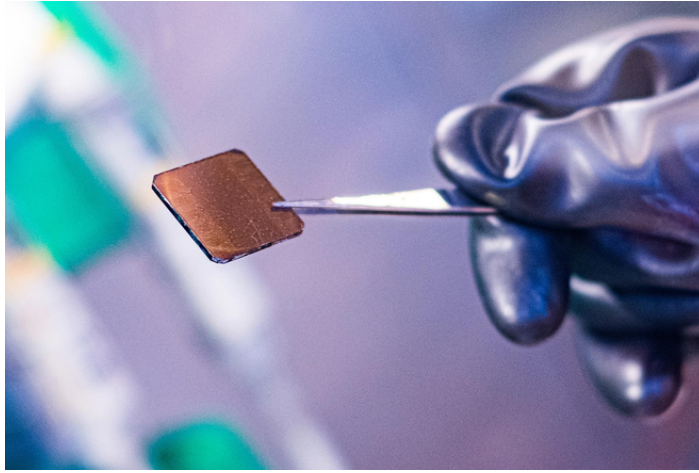
BATTERIES HAVE COME A LONG WAY SINCE VOLTA FIRST STACKED COPPER AND ZINC DISCS TOGETHER 200 YEARS AGO. WHILE THE TECHNOLOGY HAS CONTINUED TO EVOLVE FROM LEAD-ACID TO LITHIUM-ION, MANY CHALLENGES STILL EXIST — LIKE ACHIEVING HIGHER DENSITY AND SUPPRESSING DENDRITE GROWTH. EXPERTS ARE RACING TO ADDRESS THE GROWING, GLOBAL NEED FOR ENERGY-EFFICIENT AND SAFE BATTERIES.

THE ELECTRIFICATION OF HEAVY-DUTY VEHICLES AND AIRCRAFT REQUIRES BATTERIES WITH MORE ENERGY DENSITY. A TEAM OF RESEARCHERS BELIEVES A PARADIGM SHIFT IS NECESSARY TO MAKE A SIGNIFICANT IMPACT IN BATTERY TECHNOLOGY FOR THESE INDUSTRIES. THIS SHIFT WOULD TAKE ADVANTAGE OF THE ANIONIC REDUCTION-OXIDATION MECHANISM IN LITHIUM-RICH CATHODES. FINDINGS PUBLISHED IN NATURE MARK THE FIRST TIME DIRECT OBSERVATION OF THIS ANIONIC REDOX REACTION HAS BEEN OBSERVED IN A LITHIUM-RICH BATTERY MATERIAL.

LITHIUM-RICH OXIDES ARE PROMISING CATHODE MATERIAL CLASSES BECAUSE THEY HAVE BEEN SHOWN TO HAVE MUCH HIGHER STORAGE CAPACITY. BUT, THERE IS AN 'AND PROBLEM' THAT BATTERY MATERIALS MUST SATISFY — THE MATERIAL MUST BE CAPABLE OF FAST CHARGING, BE STABLE TO EXTREME TEMPERATURES, AND CYCLE RELIABLY FOR THOUSANDS OF CYCLES. SCIENTISTS NEED A CLEAR UNDERSTANDING OF HOW THESE OXIDES WORK AT THE ATOMIC LEVEL, AND HOW THEIR UNDERLYING ELECTROCHEMICAL MECHANISMS PLAY A ROLE, TO ADDRESS THIS.

NORMAL LI-ION BATTERIES WORK BY CATIONIC REDOX, WHEN A METAL ION CHANGES ITS OXIDATION STATE AS LITHIUM IS INSERTED OR REMOVED. WITHIN THIS INSERTION FRAMEWORK, ONLY ONE LITHIUM-ION CAN BE STORED PER METAL-ION. LITHIUM-RICH CATHODES, HOWEVER, CAN STORE MUCH MORE. RESEARCHERS ATTRIBUTE THIS TO THE ANIONIC REDOX MECHANISM — IN THIS CASE, OXYGEN REDOX. THIS IS THE MECHANISM CREDITED WITH THE HIGH CAPACITY OF THE MATERIALS, NEARLY DOUBLING THE ENERGY STORAGE COMPARED TO CONVENTIONAL CATHODES. ALTHOUGH THIS REDOX MECHANISM HAS EMERGED AS THE LEADING CONTENDER AMONG BATTERY TECHNOLOGIES, IT SIGNIFIES A PIVOT IN MATERIALS CHEMISTRY RESEARCH.

ARTICLES (STUDENT)



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

RICE UNIVERSITY ENGINEERS HAVE CREATED MICROSCOPIC SEEDS FOR GROWING REMARKABLY UNIFORM 2D PEROVSKITE CRYSTALS THAT ARE BOTH STABLE AND HIGHLY EFFICIENT AT HARVESTING ELECTRICITY FROM SUNLIGHT.

HALIDE PEROVSKITES ARE ORGANIC MATERIALS MADE FROM ABUNDANT, INEXPENSIVE INGREDIENTS, AND RICE'S SEEDED GROWTH METHOD ADDRESSES BOTH PERFORMANCE AND PRODUCTION ISSUES THAT HAVE HELD BACK HALIDE PEROVSKITE PHOTOVOLTAIC TECHNOLOGY.

IN A STUDY PUBLISHED ONLINE IN ADVANCED MATERIALS, CHEMICAL ENGINEERS FROM RICE'S BROWN SCHOOL OF ENGINEERING DESCRIBE HOW TO MAKE THE SEEDS AND USE THEM TO GROW HOMOGENOUS THIN FILMS, HIGHLY SOUGHT MATERIALS COMPRISED OF UNIFORMLY THICK LAYERS. IN LABORATORY TESTS, PHOTOVOLTAIC DEVICES MADE FROM THE FILMS PROVED BOTH EFFICIENT AND RELIABLE, A PREVIOUSLY PROBLEMATIC COMBINATION FOR DEVICES MADE FROM EITHER 3D OR 2D PEROVSKITES.

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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

One-week online program in IOT & its Application in Real Times”

The Internet of Things, or IoT, is a network of physical devices. These devices can transfer data to one another without human intervention. IoT devices are not limited to computers or machinery. The Internet of Things can include anything with a sensor that is assigned a unique identifier (UID). The primary goal of the IoT is to create self-reporting devices that can communicate with each other (and users) in real time.

This program is conducted on 21-12-2020 by K. Purnima

Team lead, Nokia,Bangalore.



A Two Day Project Expo on “Technovation-2K21”

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.



**Training and Placement classes on
“Quantitative & Verbal Aptitude”
&
Program on
“Three Day Awareness Program on Career Opportunities”**

Training and development involve improving the effectiveness of organizations and the individuals and teams within them. Training may be viewed as related to immediate changes in organizational effectiveness via organized instruction, while development is related to the progress of longer-term organizational and employee goals. While training and development technically have differing definitions, the two are oftentimes used interchangeably and/or together

**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	A.Mallikarjuna Prasad Associate Professor	18FH1A0202	Elukuri Lalitha	Control of Hybrid AC/DC Microgrid Involving Energy Storage and Pulsed Loads	Design & Simulation
		18FH1A0225	V Mahesh Babu		
		19FH5A0205	Chakali Pratap		
		19FH5A0227	Shaik Afrid		
		19FH5A0238	Srisailam Lakshmi		
2	M.Madhusudhan Reddy Assistant Professor	18FH1A0205	S Salma Zabeen	Grid Voltage Synchronization with Distributed Generation Systems under Grid Fault Conditions	Design & Simulation
		19FH5A0212	Kallu Anil Kumar		
		19FH5A0214	Keelu Manoj Kumar		
		19FH5A0215	Kuruva Srikanth		
		19FH5A0217	Medisetty Sandeep		
3	D.David Living Stone Assistant Professor	18FH1A0209	D Karthik	Power Quality Improvement in Micro Grid using Active Power Filters	Design & Simulation
		18FH1A0218	Kuruva Ranganna		
		19FH5A0208	Ediga Mahendra Goud		
		19FH5A0225	Reddypogu Nandini		
		19FH5A0226	Sake Sai Teja		
4	V.Nirmala Devi Assistant Professor	18FH1A0212	Erapogu Rajesh	Smart Grid Power Quality improvement by Using Modified UPQC	Design & Simulation
		18FH1A0203	Lakkasani Anusha		
		19FH5A0204	Bollu Yogeeshdatta Reddy		
		19FH5A0216	Mangali Amarnath		
5	Dr S VijayaKumar	18FH1A0219	M Rama Prasad	Control of Generator and Loadside Converter for Standalone	Design & Simulation
		18FH1A0201	B Navya		

	Professor	18FH1A0210	D Shasha Vali	Variable Speed wind Turbine	
		19FH5A0211	Kaireddy Pavan Kumar		
		19FH5A0213	Kammari Shashikiran		
6	S Masum Basha Assistant Professor	19FH5A0222	Pikkala Madhussekhar	An Efficient Constant Current Controller for PV Solar Power Generator or Integrated with the Grid	Design & Simulation
		18FH1A0208	B Narasimha Reddy		
		18FH1A0221	Mohammed Abubakar Sidiq		
		18FH1A0224	Shaik Mohammad Ali		
		19FH5A0209	Gudipati Mahesh		
		19FH5A0231	T Raghavendra		
7	K Rajesh Assistant Professor	19FH5A0202	Basireddy Gnanaprasuna	Implementation of Solar PV Battery and Diesel Generator Based Electric Vehicle Charging Station	Design & Simulation
		18FH1A0223	Nagari Vamshi		
		19FH5A0223	Pooladasu Sudheer		
		19FH5A0234	Vennapoosa Raja Sekhar Reddy		
8	K Siva Ramudu Assistant Professor	19FH5A0203	Basireddygari Revathi	Performance of Inverter for Grid Connected PV System under Fault Conditions	Design & Simulation
		18FH1A0206	A Sunil Kumar		
		18FH1A0216	Kaveti Naveen Kumar		
		19FH5A0229	Shaik Malik Basha		
		19FH5A0230	Singanamala Adarsha		
9	P Narendra Assistant Professor	19FH5A0210	Jakka Amrutha Varshini	A unified control and power management scheme for both PV and Battery based Microgrid for both grid connected mode and islanded mode	Design & Simulation
		19FH5A0201	Avula Harikumar		
		19FH5A0206	Dudekula Fazil Vali		
		19FH5A0221	Peddakotla Raviteja		
		19FH5A0224	R Rajasekhar		
		18FH1A0213	G Mahendranath		
10	S Thirumalaiah Assistant Professor	19FH5A0218	Muppagowni Sandya	A Superconducting Magnetic Energy Storage Emulator/Battery Supported Dynamic Voltage Restorer	Design & Simulation
		18FH1A0222	Mudavath Ramakrishna Naik		
		19FH5A0207	E Varun		
		19FH5A0220	Palle Siva Sai		
		19FH5A0228	Shaik Akif		
		19FH5A0232	T Ravi Kumar		

FACULTY ACHIEVEMENTS

FACULTY ACHIEVEMENTS OF DEPARTMENT OF EEE

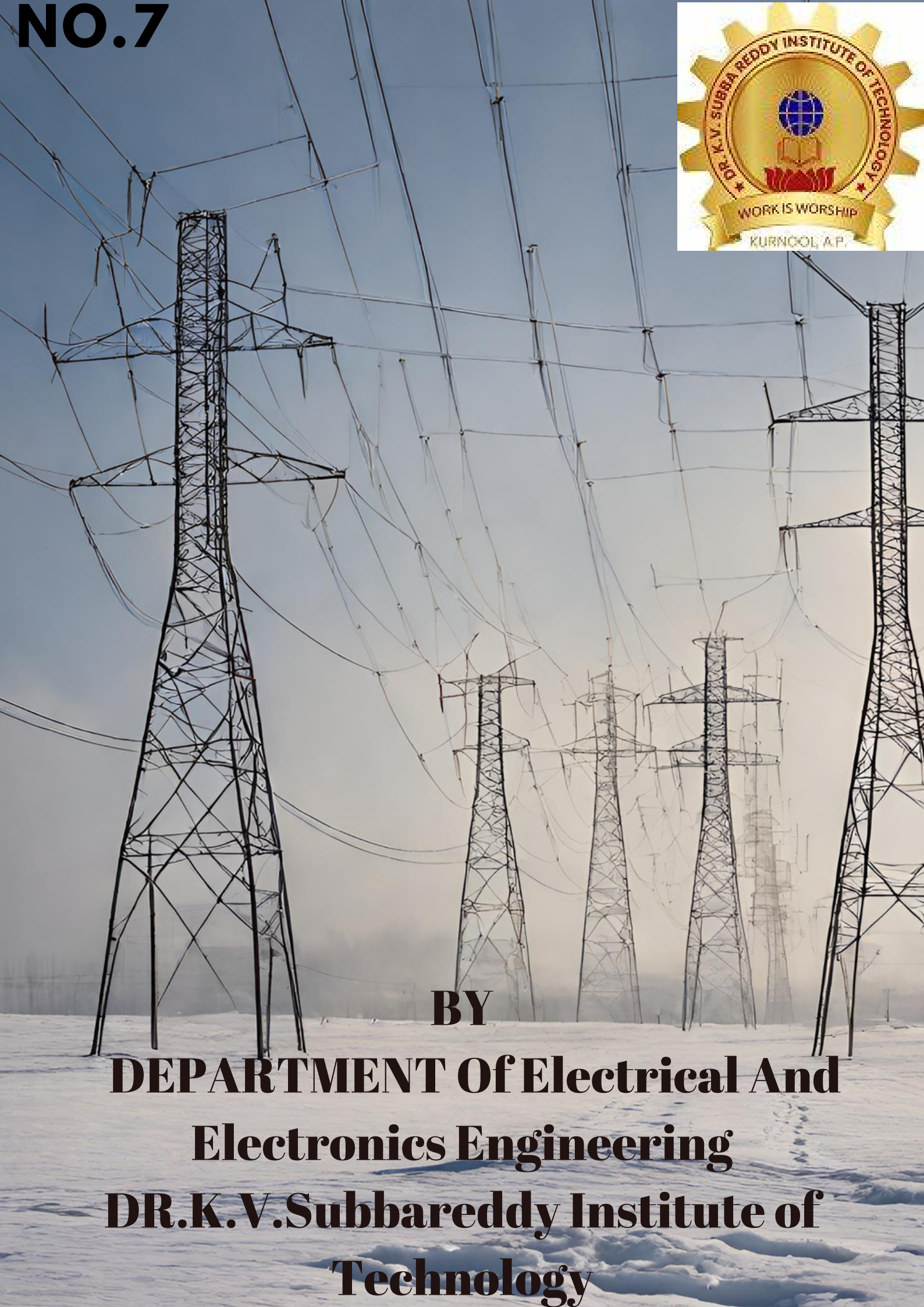
S.No	Title of the Paper	Name of the Author	Name of the Journal	Year of Published	ISSN Number	Link to the recognition in UGC enlishment of the journal
1	CONSTANT CURRENT FUZZY LOGIC CONTROLLER FOR GRID CONNECTED ELECTRIC VEHICLE CHARGING	S. VIJAYA KUMAR	Journal of Nonlinear Analysis and Optimization	2020	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 of Bidirectional Buck-Boost Converter in A Smart Grid Using Photovoltaic and Energy Storage Systems	S. THIRUMALAI AH	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 for Power Quality Improvement in Dc 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 of Bidirectional Buck-Boost Converter in A Smart Grid Using Photovoltaic and Energy 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://materialsclencetech.com/mst/issue.php?id=12 (https://materialsclencetech.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?volume=Volume%2011&issue=Issue%201&year=2022)

PLACEMENTS

PLACEMENTS SECURED BY STUDENTS OF DEPARTMENT OF EEE

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ELUKURI LALITHA	18FH1A0202	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-01
2	S SALMA ZABEEN	18FH1A0205	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-02
3	A SUNIL KUMAR	18FH1A0206	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-03
4	B NARASIMHA REDDY	18FH1A0208	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-04
5	ERAPOGU RAJESH	18FH1A0212	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-05
6	KAVETI NAVEEN KUMAR	18FH1A0216	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-06
7	M RAMA PRASAD	18FH1A0219	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-07
8	MOHAMMED ABUBAKAR SIDIQ	18FH1A0221	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-08
9	MUDAVATH RAMAKRISHNA NAIK	18FH1A0222	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-09
10	NAGARI VAMSHI	18FH1A0223	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-10
11	SHAIK MOHAMMAD ALI	18FH1A0224	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-11
12	V MAHESH BABU	18FH1A0225	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-12
13	AVULA HARIKUMAR	19FH5A0201	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-13
14	BASIREDDY GNANAPRASUNA	19FH5A0202	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-14
15	BASIREDDYGARI REVATHI	19FH5A0203	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-15
16	BOLLU YOGEEESH DATTA REDDY	19FH5A0204	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-16
17	DUDEKULA FAZIL VALI	19FH5A0206	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-17
18	GUDIPATI MAHESH	19FH5A0209	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-18
19	JAKKA AMRUTHA VARSHINI	19FH5A0210	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-19
20	KAIREDDY PAVAN KUMAR	19FH5A0211	Feedback Infra Private Deeraj Sharma	FEEDBACK/HR/KVSRIT/MHP 2022-20
21	KALLU ANIL KUMAR	19FH5A0212	MSM Manigandan M S	UPL-MSM-2022HRD-01
22	KAMMARI SHASHIKIRAN	19FH5A0213	MSM Manigandan M S	UPL-MSM-2022HRD-02
23	KEELU MANOJ KUMAR	19FH5A0214	MSM Manigandan M S	UPL-MSM-2022HRD-03
24	MANGALI AMARNATH	19FH5A0216	MSM Manigandan M S	UPL-MSM-2022HRD-04
25	MEDISETTY SANDEEP	19FH5A0217	MSM Manigandan M S	UPL-MSM-2022HRD-05
26	MUPPAGOWNI SANDYA	19FH5A0218	MSM Manigandan M S	UPL-MSM-2022HRD-06
27	PALLE SIVA SAI	19FH5A0220	MSM Manigandan M S	UPL-MSM-2022HRD-07
28	PIKKALA MADHUSEKHAR	19FH5A0222	MSM Manigandan M S	UPL-MSM-2022HRD-08
29	POOLADASU SUDHEER	19FH5A0223	MSM Manigandan M S	UPL-MSM-2022HRD-09
30	R RAJASEKHAR	19FH5A0224	MSM Manigandan M S	UPL-MSM-2022HRD-10
31	SAKE SAI TEJA	19FH5A0226	MSM Manigandan M S	UPL-MSM-2022HRD-11
32	SHAIK AKIF	19FH5A0228	MSM Manigandan M S	UPL-MSM-2022HRD-12
33	SINGANAMALA ADARSHA	19FH5A0230	MSM Manigandan M S	UPL-MSM-2022HRD-13
34	T RAGHAVENDRA	19FH5A0231	MSM Manigandan M S	UPL-MSM-2022HRD-14
35	THALARI RAVIKUMAR	19FH5A0232	MSM Manigandan M S	UPL-MSM-2022HRD-15
36	VENNAPOOSA RAJA SEKHAR REDDY	19FH5A0234	MSM Manigandan M S	UPL-MSM-2022HRD-16

NO.7



BY
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Technology