#### J.B. INSTITUTE OF ENGINEERING & TECHNOLOGY

(UGC AUTONOMOUS)

ACCREDITED BY NAAC & NBA, APPROVED BY AICTE & PERMANENTLY AFFILIATED TO JNTUH) (BHASKAR NAGAR, YENKEPALLY, MOINABAD MANDAL, R.R DIST, HYDERABAD-500075

## **GENEREX** QUATERLY NEWSLETTER Volume 7 JUNE 2023 Issue 2

## Department ELECTRIÇAL AND ELECTRONICS ENGINEERING

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www.jbiet.edu.in



## **GENEREX** QUATERLY NEWSLETTER Volume 7 JUNE 2023 Issue 2

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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"Sarasvathi Namastubhyam, Varade Kaamaroopini Vidyaarambham Karishyaami, Siddhir Bhavatu Mey Sada"



"Everything is easy when you are busy But nothing is easy When you are lazy"

-SWAMI VIVEKANANDA



# LATE SHRI J.BHASKAR RAO GARU

FOUNDER AND CHAIRPERSON J.B.GROUP OF EDUCATIONAL INSTITUTIONS



#### SMT.J UASUMATHI DEUI CHAIRPERSON J.B.GROUP OF EDUCATIONAL INSTITUTIONS



#### SRI SRI TRIDANDI SRIMANNARAYANA RAMANUJA CHINNA JEEYAR SWAMI



#### ABOUT COLLEGE

- As one of the top ten most preferred institutions in Telangana, JBIET continues to strive to impart technical (engineering) and professional education of very high standards.
- The aim of JBIET is to mould young learners into globally competitive professionals who are professionally deft, intellectually adept and socially responsible.
- The expert faculty at JBIET inculcate the best values and principles, ascribing to a modern curriculum; while the students imbibe pragmatic perception and a pro-active nature, which spurs them towards exploration and advanced inquiry, resulting in valuable insights.
- The Placement record of JBIET over the years is proof of our right efforts in enabling the best in class engineering, technical and professional education to aspirants.

Fbiet VISION

To be a centre of excellence in engineering and management education, research and application of knowledge to benefit society with blend of ethical values and global perception.

Fbiet

## MISSION

• To provide world class engineering education, encourage research and development.

• To evolve innovative applications of technology and develop entrepreneurship.

 To mould the students into socially responsible and capable leaders.



#### **ABOUT DEPARTMENT**

- The Department of Electrical and Electronics Engineering was established in the Academic Year 1998-1999 with a sanctioned intake of 60. With its strenuous effort shown in academics and extra-curricular activities, the Department magnified gradual growth in its intake to 120 in the Academic Year 2007-2008. In its long haul, with a vision of providing finest Post Graduate Program, the Department introduced M.Tech in Electrical Power Systems with an intake of 18 in the Academic Year 2004-2005. To add jewel in the crown, the Department inaugurated IEEE students' chapter in the Year 2017 and IEI students' Chapter in the Year 2020 for promoting research attitude among the young aspirants. In the quality check of NBA, the Department has been accredited under Tier –I.
- The department is unique in its own ways by promoting excellence in Electrical Engineering and fulfilling its role in the era of new millennium and meets the needs and demands of various industrial sectors. With the intent of instilling research approach among students, the department is heedful in Research & Development projects. In its augmentation, the department involves in collaborative research with industries. Coupled with its gradual proliferation, the department has signed MoUs with leading Industries. The Department has established Centre of Excellence in Renewable Energy Sources for carrying out advanced research.
- With determined hope and optimism, the department has dedicated and well qualified faculty members who manifested to be specialized in Power Systems, Power Electronics, Electrical Drives and Control, Control System, Electrical Machines, Renewable Energy, etc. The curriculum is developed in such a way to meet the industry requirements from time to time, also in synchronization with AICTE model curriculum by covering the emerging areas like Renewable Energy Systems, Embedded System, Electric Hybrid Vehicle, Industrial Automation and Control, Artificial Intelligence etc. Besides, the students are replenished with advanced courses for enhancing their technical skills and programming abilities to get acquainted with new trends in technology and develop overall potential of the students in diversified aspects.

## Department VISION

To be a Centre for State-of-the-art learning and research in the area of Electrical and Electronics Engineering, where the stakeholders could explore, experiment and exhibit their expertise with an industrial outlook.



- To EQUIP the student with advanced learning skills in the field of Electrical and Electronics Engineering as well as the professional skills necessary to face the challenges of the future.
- To ENGINEER the student to engage in research activities leading to innovative applications of technology for the benefit of society.
- To ENABLE the student with the qualities of leadership and social responsibility.

#### SECRETARY'S MESSAGE

"Education is the passport to the future, for tomorrow belongs to those who prepare for it todav". IB Institute of Engineering & Technology was established in the year 1997 under the umbrella of JB Group of Educational Institutions, Hyderabad. At present JBIET is a UGC Autonomous Institution and permanently affiliated to INTU Hyderabad. The Speedy development in the field of Information & Technology has accelerated the demand for the value based education in the stream of Engineering, Technology and Management which qualitative, progressive is and multidimensional competitive in global environment. We provide quality education beyond the four walls of classroom to cope up with the corporate world. The aim of JBIET is not only to produce mere degree holders, but the bright, talented men and women equipped with all round development of personality. Our vision of the institute is to impart quality education with Life Skills in all core disciplines of knowledge by developing global leaders who are passionate, committed and confident to take initiative in the nation building and create a peaceful environment for WORK, WORKER AND WORKPLACE."



SHRI J V KRISHNA RAO MBA HR-USA SECRETARY, JBES

#### CEO'S MESSAGE

JBIET, a leading engineering college in Telangana and Andhra Pradesh, prioritizes maintaining and improving its standards for the benefit of students and society. Its faculty, who are wellqualified and experienced in academics, industry, and research, are supported by industry experts to ensure the curriculum meets industry requirements, producing industryready graduates. The campus's peaceful environment provides an ideal learning atmosphere. [BIET emphasizes overall student development through co-curricular and extracurricular activities, with a Life Skills and Employability Skills Training program starting in the first semester. The JB Educational Group's colocated institutions offer interdisciplinary teaching-learning opportunities. [BIIAI supports students from ideation to commercialization with intellectual, logistics, and financial assistance. JBIET aims to instill a creative and innovative spirit in students while encouraging them to become job providers rather than seekers. The college pledges to guide students throughout their academic journey and looks forward to their success alongside their parents/guardians, society, and nation. Swami Vivekananda's words "Arise, Awake and Stop not till the goal is reached" inspire [BIET's commitment to students' educational journeys. We invite you to join us and wish you all the best!



MAJ GEN Dr S S DASAKA SM,VSM (Retd)

#### PRINCIPAL'S MESSAGE

As the Principal of JBIET, I am proud to lead an institution that prioritizes providing top-notch technical education to benefit all sections of society. Our founder, Late Sri. J. Bhaskar Rao Garu, established IBGEI in response to the demands of the time and the dynamic changes in the technology-driven world.At JBIET, we go beyond traditional education systems by providing holistic development opportunities for our students. Our curriculum is designed in collaboration with industry and university partners, with a focus on employability and life skills training. Our students participate in techno sessions, cultural festivals, technical fests, guizzes, guest lectures, and industryinstitute interactions.Our faculty members are well-qualified and experienced in academics, industry, and research, and they are supported by industry experts to ensure that our curriculum meets industry requirements. Our campus is situated in a peaceful and serene environment that provides an ideal learning atmosphere.We encourage our students to showcase their academic talents with high moral values and become responsible citizens of society and humanity. Our alumni are making a mark in distinguished organizations in India and abroad. We are committed to maintaining academically rich an and professionally competent environment that fosters enterprising skills in our students.We believe that JBIET will contribute positively and actively to transforming society. Thank you for considering for your educational JBIET journey, and we wish you all the best!



#### DR. P.C. KRISHNAMACHARY

#### HOD'S MESSAGE

t gives me immense pride in saying that we are highly proud of your achievements and accomplishments that you have established over these years. The dedication you showed throughout your graduate life is unimaginable. The great walk in to your career and life as a whole begins now. In this era of nerve racking global competition, the choices you have are too

many and will definitely leave you perplexed. My sincere advice to all of you is that you need to be thoughtful, creative and choose a very right path that may lead you to a right destination.I am very sure that you would be successful there too, as you have been successful here. We truly, believe in you and your potentials. Never stop learning and never stop winning! Learn from each and every one, may it be the great or the mediocre. Be prepared in such a manner that no matter, how forceful or critical the challenges are; always encounter those with full strength and vigour. I would like to appeal to my dear students to project you as good ambassadors of our college and never let self-centered motives malign the honesty and ethics you have acquired here over the years. It is your time to earn your name, make your career and make your Parents and Mentors proud. I am sure your poised character will earn your accolades. Always keep up the dedication and sincerity and hold your head high –without losing the sight of self-respect, integrity, human values and ethics. Render dedicated service to humanity and

live a happy and peaceful life. May the Almighty always guide you on your path and bless you. Wish you all the very best in life. Stay connected!



#### DR P. DURAIPANDY

#### **PROGRAM EDUCATIONAL OBJECTIVES**

PEO1	To create an excellent academic learning environment by providing awareness on lifelong learning, apply the technical knowledge in the field of Electrical and Electronics Engineering to pursue higher studies or in their professional career.
PEO2	To demonstrate technical knowledge to analyze, design, develop, optimize, and implement complex electrical systems, gain multidisciplinary knowledge through projects and industrial training, providing a sustainable competitive edge in R&D and meeting industrial needs in the field of Electrical and Electronics Engineering
PEO3	To possess professional and ethical attitudes with effective communication skills, entrepreneurial thinking and an ability to relate engineering issues to the broader social context. Also, develop requisite skills to excel in their chosen profession with an awareness of contemporary issues and the need for life -long learning.

#### **PROGRAM OBJECTIVES**

**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, 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 modeling 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 Teamwork: 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, give and receive clear instructions.

# **Editorial Team**





DR. P DURAIPANDY Cheif Editor A. SHIVARAMAKRISHNA Associate Editor





GANESH KUMAR Student Editor

#### GADE NEHA REDDY Student Editor



N. ASHRITH Student Coordinator



S. RISHI Student Coordinator

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### EV Battery Sustainability using Chip-on-Cell Technology



G.Rajashekar Assistant Professor The race to electrify our world, especially in the transportation industry, is currently in progress. With the rising number of electric vehicles (EVs) in circulation, a significant proportion of batteries will inevitably reach their end of life. We must guarantee that these batteries are not a threat to the environment and are instead properly managed through recovery, reuse, and recycling within a circular economy. The advancement of stationary energy storage systems relies on effective, reliable, and secure data handling. As the intricacy of these systems grows, they necessitate increasingly elaborate communication wiring to enhance battery performance and guarantee safety, resulting in possible sites of failure.

An electric vehicle (EV) battery exhibits more sustainability as its lifespan increases, enabling its cells to be repurposed for alternative EVs or diverse energy storage purposes. Alternatively, the battery can be recycled, with its constituent materials recovered and utilized in the production of new batteries.

Nevertheless, overseeing the well-being, efficiency, and security of these batteries presents an intricate dilemma. Conventional wired and wireless battery management systems (BMSes), while somewhat effective, have fundamental limitations. Dukosi's chip-on-cell technology is a revolutionary way of monitoring battery cells, effectively addressing these difficulties.

#### Wired vs. wireless BMS

Traditional wired BMSes use an elaborate network of physical wiring that connects every individual cell in a battery pack to a central controller. The intricacy of the wiring increases proportionally with the number of cells in a battery pack. The inclusion of extra wiring not only results in added weight and possible areas of failure, but also complicates the process of installing, maintaining, and diagnosing issues with the BMS. An intricately wired system can also limit the flexibility of battery pack designs, as fitting the necessary wiring may restrict how battery cells can be placed or stored. Furthermore, in the case of problems or failures, the troubleshooting process can be time-consuming and tedious, as each wire and connecting point must be inspected and checked.

#### EV Battery Sustainability using Chipon-Cell Technology

Conversely, a wireless BMS provides a more efficient method by eliminating the requirement for physical connections. This streamlines battery pack designs and decreases the corresponding weight. Nevertheless, employing a wireless methodology is not devoid of its own array of difficulties. Signal interference can occur due to diverse external sources or even from different components within the same system, thus compromising the precision and dependability of data transmission.

In addition, wireless systems are inherently vulnerable to cybersecurity risks, as unauthorized actors may try to intercept or manipulate the transmitted data. Additionally, it is crucial to guarantee the continuity and dependability of wireless communication, since any interruption in communication may result in inaccurate data or possibly hazardous operational circumstances for the battery pack. Essentially, although a wireless BMS mitigates certain limitations of a wired system, it presents a fresh set of challenges that must be meticulously addressed to guarantee secure and effective battery management.

Dukosi's chip-on-cell technique aims to address these restrictions by integrating a compact chip directly onto every battery cell. Dukosi was established in 2003 and has its main office in Edinburgh, United Kingdom. The company focuses on battery-monitoring technology with the aim of addressing the challenges that commonly affect battery-powered applications. The chip-on-cell technology utilizes a contactless communication system that relies on near-field communication (NFC) to monitor and record operational data and events of each individual cell in the battery. This data is then transmitted to the Dukosi system hub chip, which is integrated into the conventional BMS.

#### **Reducing noise in power supplies**

Power supply noise is a common outcome that designers and everyone involved in electronics manufacture must expect and strategize to minimize. Here are some practical methods to accomplish noise reduction in power supplies.

#### Applying a filter

An approach that offers various potential outcomes is to employ filtering techniques for the purpose of controlling power supply noise. Output capacitors can be utilized to mitigate noise by counteracting the output impedance of the power supply circuit. Nevertheless, capacitors possess equivalent series resistance (ESR) and equivalent series inductance (ESL). Choosing a component with a lower Equivalent Series Resistance (ESR) and Equivalent Series Inductance (ESL) will decrease the amount of noise.

It is important to note that a significant decrease in ESR (Equivalent Series Resistance), which might occur when replacing an electrolytic capacitor with a ceramic one, may lead to power supply instability. This is because the ESR plays a role in generating error signals related to feedback.

In contrast, ferrite beads are highly effective in attenuating high-frequency output noise when used for filtering purposes. They disperse high-frequency noise energy and accomplish this over a wide frequency spectrum. Nevertheless, the ferrite beads exhibit resistance within the intended frequency range, causing the dissipation of surplus noise as thermal energy.

Electromagnetic interference and radio-frequency interference filters can effectively assist in managing noise by preventing the entry of such electrical disturbances into a system, hence preserving its functionality. These filters additionally prevent your gadget from emitting electrical interference into power lines. The significance of the second component lies in the fact that government regulators establish specific limits on the amount of noise that a device can generate and transmit across alternating-current power lines. There are distinct differences in the limitations between North America and Europe.

#### **Reducing noise in power supplies**



Dr. P. DURAI PANDY Professor

Ferrite clamps, often known as clamp filters, are commonly used intervention methods, especially in items such as computers or office equipment. The filters consist of a cylindrical ferrite core that is enclosed within plastic and divided into two portions along its length. An inherent benefit of a clamp filter is its compatibility with pre-existing electronic equipment configurations, since it may be seamlessly integrated without the need for cable modification. Additionally, these filters provide protection for the gadget against static electricity.

Define the device's operating temperature

Extreme temperatures can impair the functionality of an electronic device and result in increased power supply interference. Nevertheless, via the integration of design considerations and customer education, corporate representatives can enhance the probability of users being satisfied with the product's performance.

For instance, a power supply with ventilation can effectively regulate the system's temperature. However, it is not suitable for usage in dusty or rainy conditions. Furthermore, in the event of a potential hazard where the power supply may become excessively hot and present a danger of burns to the operator, designers must carefully evaluate the most efficient methods to maintain its coolness.

In contrast, low temperatures can amplify the voltage ripple generated, so introducing additional noise into the power supplies. Suboptimal temperature conditions can have an adverse impact on the power supply's ability to regulate its output. Electronic devices often exhibit superior performance at cold temperatures compared to hot temperatures. However, severe temperatures in either direction can have detrimental effects on the device's function.

Advising clients to avoid using the power supplies in extremely cold weather conditions, which might cause an increase in system noise, is a simple and effective method of minimizing potential issues. Furthermore, furnish a comprehensive specification sheet that individuals can readily consult during their ownership or use of the goods.

# **STUDENT ARTICLES**





#### Solar powered Refrigeration System

Name: K.Sathvika Roll No: 23675A0201

Here are some key characteristics and features of solar refrigerators:

**Solar-Powered Operation**: Solar refrigerators are equipped with a built-in solar power system, which typically includes solar panels, a charge controller, batteries (for energy storage), and an inverter.

The Solar Power System for the Refrigerator Function A solar power system for a refrigerator works by converting energy from sunlight into electricity, which is then used to power the refrigerator.

**Solar Charge Controller:** The DC electricity generated by the solar panels is not always consistent in voltage and current.

**Battery Storage (Optional)**: In many solar power systems for refrigerators, batteries are included to store excess electricity generated by the solar panels during the day.



**Monitoring and Control:** Some solar power systems may include .monitoring and control systems that allow you to track the performance of your solar panels, the state of your batteries (if used), and the overall power consumption of your refrigerator.

Backup Generator (Optional): Some solar power systems may also include a backup generator or other power source, especially if the refrigerator is critical, and there's a need for uninterrupted power supply during extended periods of low sunlight. Harnessing the Power of Thunder: Storing and Utilizing Thunder as Electricity

> Name: M.Vikranth Roll no: 22671A0214



Thunder, the awe-inspiring sound that accompanies lightning during a storm, is not just a natural phenomenon to marvel at but also a potential source of energy. In recent years, scientists and researchers have been exploring the possibility of capturing and storing the immense energy generated by thunder to convert it into electricity. This article delves into the process of storing and utilizing thunder as electricity, examining its advantages, challenges, and potential solutions.

In recent years, scientists and researchers have been exploring the possibility of capturing and storing the immense energy generated by thunder to convert it into electricity Energy Conversion: Once lightning is captured, the next step involves converting the kinetic energy of thunder into electrical energy.Capturing and storing this energy can result in a significant amount of electricity generation, making it a potent source for meeting energy demands.

frequent Regions prone to thunderstorms could particularly benefit from harnessing the power of thunder as a local and reliable energy source. Developing technologies that reliably predict and capture can lightning strikes is a hurdle in utilizing thunder as consistent а energy successfully source.lf harnessed. thunder has the potential to become a significant contributor to the world's renewable energy portfolio, offering a clean and sustainable source of power for the future.







Name: Kadambu Nandhini Roll no: 23675A0240

Robotics integrates many fields that deal with specific aspects of robotics.

For example, within mechanical engineering, the term robotics refers to the construction of the physical structures of robots, while in computer science, robotics focuses on the study of robotic software.

The goal of robotics is to design machines that can help and assist humans.

The field of robotics develops machines that can automate tasks and do various jobs that a human might not be able to do. Robots can be used in many situations for many purposes, but today many are

used in dangerous environments (including inspection of radioactive materials, bomb detection an deactivation), manufacturing processes, or where humans cannot survive

Such robots attempt to replicate walking, lifting, speech, cognition, or any other tasks mainly performed by a human.

Many of today's robots are inspired by nature, contributing to the field of bio-inspired robotics.

Robots are widely used in manufacturing, assembly and packing, transport, earth and space exploration, surgery, weaponry, laboratory research, and mass production of consumer and industrial goods.





# ELEXSA

#### (ELECTRICAL AND ELECTRONICS EXPORE STUDENTS ASSOCIALTION)

## "ELEXSA" The departmental Technical club was inaugurated on 28.6.2023.

#### Club VISION

Empowering minds, illuminating paths uniting electrical and electronics enthusiasts to ignite innovation and advance technology together.

#### Club MISSION

Empowering Tomorrow's innovators: Fostering the growth and development of electrical and electronics exploring students through hands-on learning and collaborative opportunities.

Illuminating the path of discovery: Inspiring a passion for exploration and innovation in the field of electrical and electronics through engaging events, knowledge-sharing, and mentorship.

Revealing of Faculty Co-ordinators and Student Co-ordinators.



#### STUDENT CO-ORDINATORS



A.Gayathri



R.Anvesh



N.Ashrith







#### EVENTS PLANNED TO BE CONDUCTED IN NEXT SEMESTER BY STUDENT CO-ORDINATORS.

- 1) Industrial visit (To any substation/Power plant).
- 2) Workshops (For about 2 days along with practical sessions)
- 3) Seminars /Guest lectures /Expert lectures. (Related
- to Electrical domain by Industrial Expert)
- 4) Talent Hunts (Like Quiz, Essay writings, etc).
- 5) Events that support women Empowerment.









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# PROGRAMS ORGANIZED

- inter expl. IPCS lecture
  - 2. Matlab Guest lecture
  - 3. Paper Presentation contest
  - 4. Project Expo contest
  - 5. Poster Presentation Contest
  - 6.Powertrain in Electric Vehicle Workshop



The Department of Electrical and Electronics Engineering conducted an Expert Lecture on "INDUSTRIAL AUTOMATION" on 3rd June. Resource persons:1. Mr. Trived Balivada, Operations Manager, IPCS Hyderabad

2. Mr. Md. Abdul Mahboob Khan, Automation Expert

The insightful expert lecture explores the following:

1. The importance of Automation

2. Components involved in Industrial Automation like a) Importance of Automation

b) PLC

#### c) SCADA

3. Explanation of Types of PLC involved in Industrial Automation The objective of the Industrial Lecture was achieved.

The overall session benefited 30 students.









The Department of Electrical and Electronics Engineering conducted an Expert Lecture on "PATENT DRAFTING AND FILING" for students of UG and PG on 7th January 2023. Resource Person: Dr. P. Duraipandy, Associate Professor & Head of the Department.

The insightful expert lecture explores the following:

The importance and process of Intellectual Property Rights is discussed in this session.

The Speaker of the session Dr. P. Duraipandy presented the keynote address on "Introduction to MATLAB Programming". He discussed the major elements of maintenance in MATLAB with the best suitable real examples which are essential for the understanding of efficient Programming. He projected a clear understanding of the importance of MATLAB.







JBIET Cricket Gallery, Telangana, Mula Jat 17.329085° Long 78.301653° 07/01/23 10:38 AM GMT +05:30



Contest

#### PAPER PRESENTATION

An overview of the Project Contest is as follows:

This Project Contest was organized as a part of Technical Fest – INFOQUEST'23. The following are the Projects displayed in the Project Contest.

1. Modelling of BLDC motor & IOT based Vehicle accident detection and Rescue system for Electric Vehicle Solar tracking system using LDR

2. Protection strategy for wireless charging Electric Vehicle

3. IoT based Green-house monitory system

4. Smart Glove for Women Security The best Projects were awarded 1st and 2nd Prizes. The objective of the Contest was achieved









An overview of the Project Contest is as follows: This Project Contest was organized as a part of Technical Fest – INFOQUEST'23. The following are the Projects displayed in the Project Contest. 1. Modelling of BLDC motor & IOT based Vehicle accident detection and Rescue system for Electric Vehicle Solar tracking system using LDR

2. Protection strategy for wireless charging Electric Vehicle

- 3. IoT based Green-house monitory system
- 4. Smart Glove for Women's Security.

The best Projects were awarded 1st and 2nd Prizes. The objective of the Contest was achieved.



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The Department of Electrical and Electronics Engineering has conducted the Workshop on "Powertrain in Electric Vehicle" for the II & III year students of Under Graduate program

#### On: Saturday 18th March, 2023

Resource Person: Mr. Jyoti Ranjan Singh, Skyy Rider Institutions.

Venue: Placement Seminar Hall, J. B. Institute of Engineering and Technology.

Co-ordinators: Mr. B. Chandra Singh, Assistant Professor Ms. K. Babitha, Assistant Professor Convener: Dr. P. Duraipandy, Associate Professor & Head of the Department

An overview of the Workshop is as follows: Salient points discussed in the Workshop are:

a) Basic idea and working principle of Electric Vehicle. b) Different components used.

- c) Animation Videos.
- d) Different parts in an Electric Vehicle.
- e) Mechanism of Motor rotation & Brake System.
- f) Classification of Electric Vehicle.
- e) Different fuels used along with energy carriers.

h) Working with Battery Electric Vehicle & Hybrid Electric Vehicles.

i) Different types of batteries.

The objective of the Workshop was achieved. The overall session benefited 30 Students











# NAME TO FAME

# SKILLDUNIYA



Cheryala Lahari 19671A0204



Choppari Tharun Kumar 19671A0207



D.Chandrashekara chary 19671A020<mark>9</mark>



G. Heman Hananiah 19671A0212



Jadi Harinivas 19671A0218



K. Rama Krishna 19671A0220

Congratulations

## STUDENTS PLACED IN SKILLDUNIYA



Каууа 19671А0218



K. Vamshi Krishna 19671A0222



R. Shiny Sushmita 19671A0231



Р. Ајау 19671А0234



**B.** Vandana 19671A0246



E. Sai Teja 19671A0250

Congratulations!

# SKILLDUNIYA



M. Yashwanth 19671A0256



M. Divya 19671A0257



P. Ushaswini 19671A0263



P. Addhiramm 19671A0264



V. Vamshi 19671A0270



P. Soni 20675A0209

Congratulations!

# SKILLDUNIYA



Р. Ајау 20675А0203



E. Vamshi 20675A0212



P. Nithin 19671A0260



Y. Nikhil Sai 20675A0214



S. Neharika 20675A0218



M. Shivaram 20675A0220

Congratulations!

## STUDENTS PLACED IN SKILLDUNIYA



D. Sravan Kumar 20675A0225



A. Shiva Krishna 20675A0236



Y. Sai Karthik 20675A0226

Congratulations!



## STUDENTS PLACED IN TOSHIBA





T. Vinay Kumar 20675A0216



N.Harish 20675A0204



C. Karthik Goud 19671A0206



CH.Nivas 20675A0207



S.Tharun 20675A0211

Congratulations!

## STUDENTS PLACED IN EIDIKO



K. Manoj Kumar 19671A0253



E. Akhil 20675A0215

Congratulations

# ANNUAL TECHNICAL JUNE 2023 MAGAZINE

#### J.B.INSTITUTE OF ENGINEERING & TECHNOLOGY UGC AUTONOMOUS

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(Accredited by NBA & NAAC, Approved by AICTE & Permanently Affiliated to JNTUH) Bhaskar Nagar, Yenkapally (V), Moinabad(M), P.O. Himayathnagar, R.R. District, Hyderabad-5000075