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Build New World

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A report on "Journey of Discovery Innovation, and strategic decision making to navigate the challenges of startup ventures"

The Department of Electrical and Electronics Engineering of Dadi Institute of Engineering & Technology- Autonomous in association with DIET ISTE Student Chapter and Institute Innovation Council (IIC) conducted the Project Demo "Journey of Discovery Innovation, and strategic decision making to navigate the challenges of startup ventures" on 4th May 2024 at Smart Lecture Hall in the institute premises. Process Design and Development is a showcase of recent innovations in engineering, provided a platform for brilliant minds to unveil groundbreaking technologies and solutions. The event brought together engineers, innovators, and industry leaders, offering a glimpse into the future of technology. This report outlines some of the remarkable advancements presented during this captivating exhibition.



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The Project Demo started with an Inauguration event by chief guest JNTU-GV Professor Prof. K. Srikumar, Mr. K. Vijay Kumar, (DIET ISTE Convener), Dr. A.S.L.K. Gopalamma, (HOD-EEE) and other faculty members and students.



chief guest JNTU-GV Professor Prof. K. Srikumar addressed the gathering along with HOD EEE and other faculty members.

SMART Electric Bicycle

A smart electric bicycle, also known as an e-bike, is a bicycle with an integrated electric motor that assists the rider's pedal-power. The "smart" aspect typically refers to the integration of technology such as sensors, controllers, and connectivity features that enhance the functionality, safety, and user experience of the bike. Here are some features commonly found in smart electric bicycles:

Electric Motor: The electric motor provides assistance to the rider's pedaling efforts, making it easier to climb hills, ride against the wind, or maintain higher speeds.

Battery: E-bikes are powered by rechargeable batteries, usually lithium-ion. The battery capacity determines the

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range of the bike, i.e., how far it can travel on a single charge.

Pedal-Assist System: Also known as pedal-assist or pedelec, this system detects when the rider is pedaling and provides electric assistance accordingly. The level of assistance can often be adjusted by the rider.

Throttle Control: Some e-bikes feature a throttle that allows the rider to control the electric motor without pedaling. This feature is common in electric scooters and motorcycles but is also found in certain types of e-bikes.

Smart Display: A built-in display on the handlebars provides information such as speed, battery level, distance traveled, and assistance mode. Some displays also include GPS navigation, fitness tracking, and smartphone integration.

Connectivity: Smart e-bikes may have Bluetooth or Wi-Fi connectivity, allowing them to communicate with smartphones or other devices. This connectivity can enable features such as remote locking, theft tracking, and firmware updates.

Electric Assistance:

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The electric motor on e-bikes provides assistance to the rider's pedaling effort, making cycling easier, especially uphill or over long distances.

The level of assistance can usually be adjusted, allowing riders to choose between different power settings based on their preferences and the terrain.

2. Types of Electric Bicycles:

Electric bicycles come in various designs to suit different riding preferences and purposes.

City commuter e-bikes are designed for urban transportation, featuring comfortable frames, integrated lights, racks, and fenders for carrying cargo.

Mountain e-bikes are built for off-road trails and rugged terrain, equipped with robust frames, suspension systems, and knobby tires for enhanced traction.

Folding e-bikes are compact and portable, ideal for commuters who need to combine cycling with public transportation or have limited storage space.

3. Battery and Range:

E-bikes are powered by rechargeable lithium-ion batteries, which are typically mounted on the frame or integrated into the bike's design.

The range of an electric bicycle depends on factors such as battery capacity, motor efficiency, terrain, rider weight, and level of pedal assistance.

Modern e-bike batteries can provide ranges ranging from 20 to over 100 miles on a single charge, with higher-capacity batteries offering longer distances.

4. Safety Features:

Electric bicycles often come with safety features such as integrated lights, reflective elements, and hydraulic disc brakes for efficient stopping power.

Some models may also include features like anti-theft systems, GPS tracking, and smartphone connectivity for

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added security and convenience.

6. Environmental Benefits:

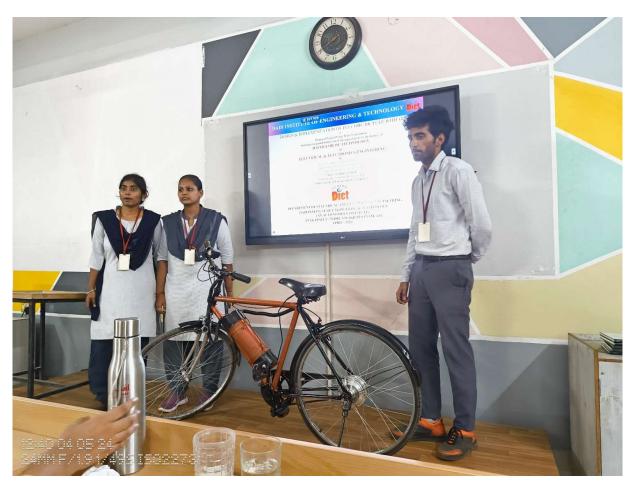
Electric bicycles offer a greener alternative to traditional vehicles, as they produce zero emissions and reduce reliance on fossil fuels.

By encouraging cycling as a mode of transportation, e-bikes contribute to reducing traffic congestion and air pollution in urban areas.

7. Health and Fitness:

While electric bicycles provide assistance, they still require pedaling, offering riders a form of low-impact exercise.

E-bikes can make cycling more accessible to people of varying fitness levels and physical abilities, allowing more individuals to enjoy the health benefits of cycling.



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SMART HOME AUTOMATION:

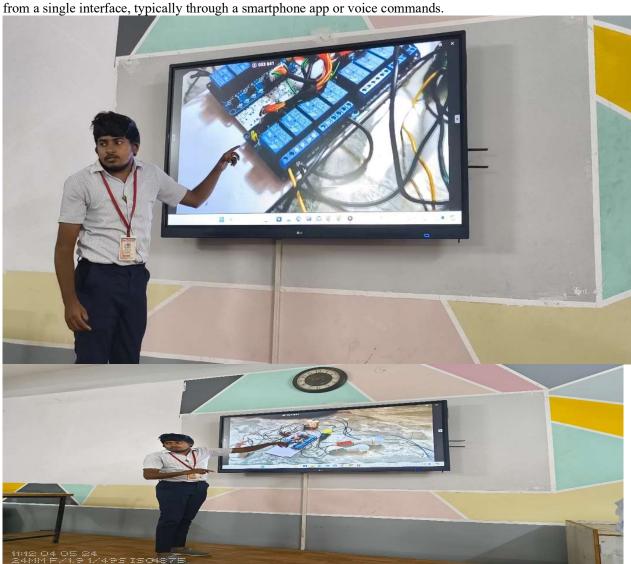
Smart home automation refers to the integration of technology and devices within a home to enable centralized control and automation of various functions, systems, and appliances. These systems are designed to enhance convenience, comfort, security, and energy efficiency for homeowners.

1. Connectivity and Integration:

Smart home automation systems utilize connectivity technologies such as Wi-Fi, Bluetooth, Zigbee, or Z-Wave to link devices and appliances together.

These devices can include smart thermostats, lighting systems, security cameras, door locks, smart speakers, appliances, and more.

Integration platforms and hubs serve as central control units, allowing users to manage and automate different devices from a single interface, typically through a smortphone and or voice commands.



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INVERTER BASED SMART SOLAR POWER PLANT MONITORING SYSTEM

The integration of Internet of Things (IoT) technology in solar power systems has led to the development of smart solar inverters that can efficiently generate and manage solar power. In this paper, we present an IoT-based smart solar inverter for solar power generation. The proposed system consists of a solar panel, a smart inverter, and a battery bank. The smart inverter is equipped with sensors and communication modules that allow it to monitor the solar panel's output and communicate with the battery bank. The system's performance is controlled by an IoT platform that uses algorithms to optimize energy generation and storage. The proposed system is designed to improve energy efficiency, reduce energy costs, and increase the reliability of solar power systems. The experimental results demonstrate that the proposed system can efficiently generate and manage solar power, making it a promising solution for renewable energy generation. In the circuit diagram we can observe that 12V battery is connecter to the diode LED and also connected to the pin8 of the IC 4047 which is VCC or power supply pin and also to pin 4 and 5 which are a stable and complement a stable of the IC. Diode in the circuit will help not give any reverse current, LED will work as a indicator to the battery is working or not. IC CD4047 will work in the astable multivibrator mode. To work it in a stable multivibrator mode we need an external capacitor which should be connected between the pin1 and pin3. Pin2 is connected by the resistor and a variable resistor to change the change the output frequency of the IC. Remaining pins are grounded. The pins 10 and 11 are connected to the gate of the mosfets IRF540. The pin 10 and 11 are Q and ~Q from these pins the output frequencies is generated with 50% duty cycle. The output frequency is connected to the mosfets through resistor which will help to prevent to the loading of the mosfets. The main AC current is generated by the two mosfets which will act as two electronic switches. The battery current is made to flow upper half or positive half of the primary coil of transformer through Q1 this is done when the pin 10 becomes high and lower half or negative half is done by opposite current flow through the primary coil of transformer, this is done when pin 11 is high. By switching the two mosfets current is generated. This AC is given to the step-up transformer of the secondary coil from this coil only we will get the increased AC voltage, this AC voltage is so high; from step up transformer we will get the max voltage. Zenor diode will help avoid the reverse current.



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Attendance: (No. of Students: 95)

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tab No. 1	HT.No	StudentName	Mentor	March 1 o had 50
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Conclusion:

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Project Demo served as a testament to the relentless pursuit of innovation within the engineering community. The showcased advancements not only reflected the current state of the industry but also hinted at the exciting possibilities that lie ahead. As these technologies continue to evolve, their impact on society, the environment, and the way we live and work is poised to be transformative. The event left attendees inspired and eager to witness the real-world implementation of these groundbreaking engineering innovations.

Head of the Department Electrical & F. Infronics Engg. Dadi Institute of Engg. Tech. Anakapaile - 531 002