News Letter

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

GL BAJAJ
Institute of Technology & Management

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▶ **Abhivyakti-2K22**

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Techathon

On the occasion of Engineer's day an offline Innovative Idea Pitching event "TECHATHON" was organized by the "ANVITHA CLUB "of ECE department. That was witnessed by the 20 innovative teams of Engineers from different Departments. As Students participated with full enthusiasm and good spirit, it was really a great experience in witnessing the eager minds proposing their special innovative ideas. Their ideas can bring a revolutionary change in the world of technology.

Based on Judges score, following are the winner teams:

1st Position: C. O. D. E from CSE Department

2nd Position: COSMOS (CSE/AIML Department) AND E-COMMERCE (IT Department)

3rd Position: DICTATOR (ECE Department) and DONATING MEDICINES (ECE Department)

The Department of Electronics & Communication Engineering has organised a 03 (Three) days workshop on IoT with practical and application Exposure using advance learning equipments. The Expert from EdGAte Technology Using Texas Instruments from Bangalore was the main service provider. On 28 November, The testing and calibration of all the associated equipments were carried out in project lab and installation procedure were explained to all the technical staffs. On 29 th & 30 th November the following syllabus was covered by an EdGAte expert are as follows:-

Using ARDUINO UNO, ESP32, STM32, RPI PICO (4 Microcontrollers)

1. Write a Program to Blink RGB LED

2. Write a Program to control LED using Push Button

3. Write a Program to Interface DHT11 Sensor

4. Write a Program to control Relay

5. Write a Program to Interface Potentiometer for Analog to Digital Conversion

6. Write a Program to Interface BMP180 Sensor and display values in TFT

7. Write a Program to Interface MPU6050 Sensor and display values in TFT

8. IoT Experiments (ESP32 – WiFi Communication)

9. Write a Program to Interface MPU6050 Sensor and display values in TFT and send data to bylnk App

10. Write a Program to Control RGB LED using Blynk

IoT Experiments (ESP32 – BLUETOOTH)

11. Write a program to send "HELLO WORLD" via Bluetooth communication

12. Write a Program to Control Buzzer using Bluetooth Mobile Application

IoT Experiments (ESP32 – SIM800L)

13. Write a Program to Control Relay using GSM – Sim800L

IoT Experiments (ESP32 – MQTT)

14. Write a program to send the DHT11 data via MQTT protocol and control the Appliance via MQTT protocol

IoT Experiments (ESP32 – LoRaWAN)

15. Write a Program to uplink the DHT11 Data using LoRaWAN Communication

16. Write a Program to Control LED via Downlink using LoRaWAN Communication

IoT Experiments (Arduino – ESP32)

17. Interfacing DHT11 with ARDUNO Uno and Send the data using ESP32 WiFi Coprocessor to Blynk Cloud

IoT Experiments (STM32 – ESP32)

18. Interfacing DHT11 with STM32 Bluepill and Send the data using ESP32 WiFi Coprocessor to Blynk Cloud

Expert 1   Expert 2

Mr. Karthikeyan Singaram   Mr. Vadi Raj

Technical Head – EdGAte, Banglore   Technical Support Engineer –EdGAte, Banglore

Advance IoT and Embedded System Lab

Advance IoT and embedded system lab facilitated with Texas Instruments using LORA WAN with 4G-5G Gateway and 50 different types of sensors for research and innovation under MODROB Scheme-AICTE. Training from EdGAte Technology-Bangalore was facilitated on 28 th -30 th November, 2022 for faculties, staffs and students of ECE.

"Abhivyakti-2K22"

On 30th September 2022, an inter-college dance competition was organized by GL Bajaj Student Council along with ANVITHA Club. Students from different colleges like Noida institute of engineering and technology (NIET), Sharda University, IEC college of engineering and technology , Dronacharya group of institutions and many more colleges showed great interest in it. All the performances were outstanding. It was a tough time for the jury to decide the winners. The winners were:

First position: Gauri Goel from Noida Institute of Engineering and Technology
Second position: Abdullah Kamil from GL Bajaj Institute of Technology and Management and **Aakash Singh** from Noida Institute of Engineering and Technology.
Third position: Desi Boyz (Group Dance) from GL Bajaj Institute of Technology and Management and **Prachi** from Dronacharya Group of Institutions.
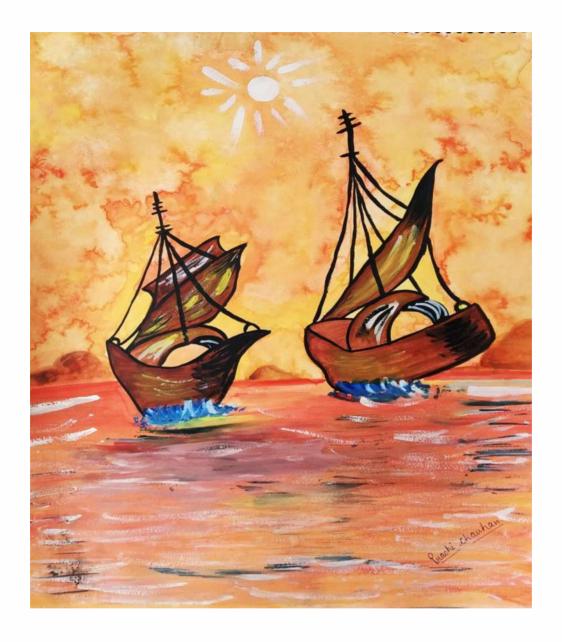
Anaam Singh, ECE final year. His innovative project won the Smart India Hackathon 2022- 23 with price of Rs.100000. The idea has also been funded by UP CST by Rs.20,000.

Prachi Chauhan
B.Tech (Final Year)
ECE

Editorial Board

Convenor	:	Dr. Satyendra Sharma (HOD)
Editor	:	Dr. Dinesh Singh - Professor
	:	Dr. Shilpa Choudhary - Associate Professor

DEPARTMENT OF ECE

VISION

To became a department of repute and prepare globally competent and socially responsible professionals with holistic knowledge and technical skills.

MISSION

- ✓ To provide a supportive environment for effective knowledge transfer and nurturing ideas.
- ✓ To equip students with technical and leadership skills, and abilities to face the global challenges.
- ✓ To create an environment conducive for research and development with continuous involvement of industry.
- ✓ To inculcate professional and moral values in the students.

Program Educational objectives (PEO)

On completion of this course, our graduates will be able to

1. Exhibit multi-disciplinary technical and leadership skills for better employability, higher education and entrepreneurship.
2. Possess strong knowledge in the field of Electronics and Communication Engineering to develop solutions for real life problems.
3. Undertake professional responsibilities through strong team-work, communication skills and life-long learning.
4. Become socially responsible professionals with moral values and ethics.

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