BETTER THE FUTURE





FIVE DAYS

WORKSHOP ON **BASICS OF ELECTRONICS & IoT** **ORGANISED BY:**

LUCKNOW PUBLIC COLLEGE OF PROFESSIONAL STUDIES

(Affiliated to University of Lucknow) Vinamra Khand, (Near Kathauta Lake) Gomti Nagar, Lucknow

ness United Date: JULY 07 - 12, 2023

Time: 11:00 AM onwards

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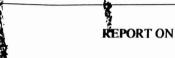
Ms. Rashmi Sachan

(Department of Commerce)

Ms. Kshma Singh

(Department of Commerce)

Lucknow Public Callege of Professional Studies Vinamra Khand, Gomlinagar, Lucknow



Basics of Electronics and IoT

Organised by: Internal Quality Assurance Cell (IQAC) & RPDC

LUCKNOW PUBLIC COLLEGE OF PROFESSIONAL STUDIES

Date: 7/7/23 to 12/7/23

Venue: Computer Lab & Conference Hall, LPCPS

Introduction:

The Basics of Electronics and IoT (Internet of Things) workshop was a comprehensive Five-days event organized with the aim of providing participants with fundamental knowledge and hands-on experience in the field of electronics and the Internet of Things. The workshop took place over three consecutive days, and it targeted students, enthusiasts, and professionals interested in understanding the core concepts of electronics and how they relate to IoT applications.

Speakers of the Workshop were:

- Mr. Ravi Tiwari
- Mohd. Zuhaib Khan

2. Day 1: Introduction to Electronics

The first day of the workshop focused on introducing participants to the fundamental principles of electronics. The agenda for the day included the following topics:

- Basics of electronic components: Participants learned about essential electronic components like resistors, capacitors, transistors, and integrated circuits.
- Circuit analysis: Participants gained knowledge about circuit analysis techniques, Ohm's law, and voltage/current division.
- Hands-on session: A practical session allowed participants to build simple circuits and measure voltage, current, and resistance using multimeters.

Pictures from day 1





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4. Day 2: Digital Electronics and Microcontrollers

The second day delved into digital electronics and microcontrollers, laying the groundwork for IoT applications. Key topics covered were as follows:

- ✓ Binary system and logic gates: Participants were introduced to the binary numbering system and the concept of logic gates (AND, OR, NOT, etc.).
- Introduction to microcontrollers: An overview of microcontrollers and their importance in IoT was
- Arduino programming: Participants were introduced how to write simple programs to control LEDs and read input from sensors.
- ✓ Hands-on session: Attendees had hands-on experience to perform basic tasks, such as controlling LEDs and interfacing with sensors.

Pictures from day 2



5. Pictures from day Day 3:



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6. Pictures from day 4



7. Day 5 & Valedictory session

On the final day, the focus shifted towards IoT applications and how electronic components and microcontrollers come together in real-world projects. Topics covered included:

- ✓ Introduction to IoT: An explanation of the IoT concept, its applications, and its impact on various industries.
- Communication protocols: Participants learned about common communication protocols used in IoT, such as Wi-Fi, Bluetooth, and MQTT.
- ✓ IoT project development: A step-by-step guide to developing an IoT project, from concept to implementation.
- ✓ Hands-on session: The last day featured an exciting hands-on session where participants worked in teams to create their IoT projects using Arduino and various sensors. They were able to monitor data and control devices remotely through a web-based interface.

Pictures from day 5





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The workshop came to its conclusion with Valedictory Session with Valedictory speech & Vote of Thanks by Dr. L.S. Awasthi (Dean Academics, LPCPS) & thanking notes by. Dr. Richa Mishra (Assistant Professor, LPCPS)

8. Conclusion:

The Basics of Electronics and IoT workshop was a resounding success, attracting enthusiastic participants from diverse backgrounds. The three-day event provided attendees with a strong foundation in electronics and IoT concepts, combining theory with practical, hands-on experience. Participants left the workshop with a deeper understanding of electronics, microcontrollers, and the endless possibilities that IoT offers.

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The event would not have been possible without the dedicated efforts of the organizers, speakers, and volunteers who made it a seamless experience for all participants. As the workshop came to a close, participants expressed their satisfaction with the content, delivery, and interactive nature of the sessions. Many attendees indicated their interest in further advanced workshops and events in related fields.

Overall, the Basics of Electronics and IoT workshop served as an excellent platform for knowledge-sharing and skill development, contributing to the growth of aspiring electronics and IoT enthusiasts. The organizers look forward to organizing more such events to continue fostering interest and expertise in these rapidly evolving domains.

Principal

Principal

Lucknow Public College of Professional Studies

Vinamra Khand, Gomlinagar, Lucknow



Workshop on: Basics of Electronic and IoT From: 7th July - 12th July 2023

Date: 11th July 2023					
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From: 7th July - 12th July 2023

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