

QUANTUM X-24

“Guided Robotics Cyberpunk Utopia Workshop”

- **Title : Guided Robotics Workshop**
- **Nature of the Event: H/W Workshop**
- **Date :22-04-2024**
- **Time : 9:00 am-5:30pm**
- **Faculty Co-ordinator : Dr. Kavita Avinash Patil (ECE Department)**
- **Student Co-ordinator : Preety Gupta, Shatakshi Pattanaik**
- **Participants : 16**
- **Speaker: Sonu Kumar**
- **Speaker Details:**
 - **Name : Sonu kumar and Trupti (Intern)**
 - **Designation : Embedded Engineer**
 - **Company : Desun Technology Pvt. Limited**
- **Brief Report :**

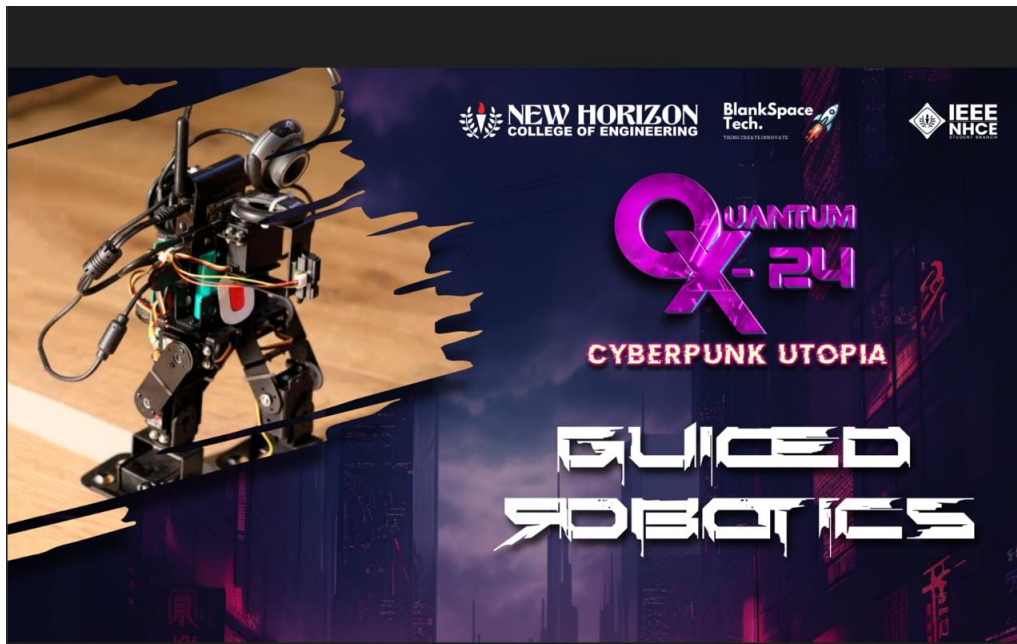
The workshop featured hands-on sessions where participants had the opportunity to experiment with robotics kits and programming tools. This practical approach allowed attendees to gain insights into the challenges and possibilities of working with guided robotics. Discussions centered around how these technologies could be harnessed to create a cyberpunk utopia where human and machine coexistence thrives. The cyberpunk aesthetic, characterized by neon lights, futuristic cityscapes, and a blend of high-tech and low-life elements, served as a guiding theme. Attendees explored how to incorporate these visual elements into the design of guided robotic systems, envisioning a cityscape that seamlessly integrates technology into its fabric. Participants engaged in discussions on privacy, surveillance, and the potential impact of widespread use of guided robotics on social structures. Ethical frameworks and guidelines were explored to ensure responsible development and deployment of robotic technologies.

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Attendees were encouraged to form collaborative teams to work on projects that embodied the cyberpunk utopia vision. These projects ranged from prototype designs of robotic assistants to interactive installations showcasing the potential of guided robotics in everyday life. The Guided Robotics Cyberpunk Utopia Workshop successfully facilitated a creative and collaborative space for envisioning a future where guided robotics shape a cyberpunk-inspired utopia. By addressing technological, aesthetic, and ethical considerations, participants not only explored the possibilities but also laid the groundwork for responsible and visionary advancements in guided robotics. The workshop's impact goes beyond the event itself, contributing to the ongoing dialogue on the future integration of robotics into our societies. As technology continues to advance, guided robotics is expected to play an increasingly significant role in streamlining operations, reducing costs, and improving overall efficiency across various sectors. The ongoing development of advanced sensors, improved algorithms, and enhanced artificial intelligence capabilities will contribute to the continued evolution and adoption of guided robotic systems.

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Poster of Guided Robotics Cyberpunk Utopia Workshop



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Summary:

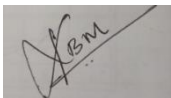
Guided robotics refers to the use of autonomous or semi-autonomous robotic systems that are equipped with sensors, cameras, and other technologies to navigate and perform tasks with minimal human intervention. These systems are guided by algorithms, artificial intelligence, and sensor data, allowing them to interact with their environment and make decisions based on the information they receive. The primary goal of guided robotics is to enhance efficiency, precision, and automation in various industries and applications.. They are designed to perform tasks such as material handling, inspection, assembly, and transportation. Guided robots use a variety of sensors, including cameras, ultrasonic sensors, and proximity sensors, to perceive and understand their surroundings. This enables them to avoid obstacles, identify objects, and adapt to changes in the environment. In certain applications, guided robotics emphasizes collaboration between robots and human operators. This collaborative approach allows robots to work alongside humans, enhancing productivity and safety. Guided robotic systems can be customized to meet specific requirements in different industries. Their flexibility allows for easy reprogramming or reconfiguration to adapt to changing tasks or environments. Guided robotics plays a crucial role in the concept of Industry 4.0, where automation, connectivity, and data exchange are central. These robots contribute to the creation of smart factories and connected systems that optimize manufacturing processes.

Total No of Participants : 16(Present) & 2(Absent).

Total : -18 Participants

Name of the Faculty Coordinator : Dr. Kavita Avinash Patil

*Senior Assistant Professor
ECE Department
NHCE Bangalore*



Signature

22TH April 2024