



DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Workshop on “Cloud Networked Robotics.”

Participants: 7th - Semester Students

Date: 19-09-2025

Brief Description of the Event

On 19th September, 2025, our institution in association with the Center of Excellence Lab, Juniper Networks had hosted a workshop on “Cloud Networked Robotics” by Mr. Tarun Y L, R&D Associate-L1, Talentronics Infotech Pvt. Ltd. The workshop provided participants with a strong foundation in robotics, starting from the fundamental concepts to practical applications. Students gained insights into real-world applications of robotics and explored essential components such as chassis, motors, sensors, controllers, and power systems. They also learned about cloud-networked robotics and its potential for enabling intelligent and collaborative robotic systems. By the end of the session, participants understood the concepts of designing, assembling, and programming an obstacle-avoiding robot.

Key Points Covered

- 1) **Introduction to Robotics** – Participants gained an understanding of the basics of robotics and how it is shaping various real-world applications. They also explored the potential of robotics in industries, education, and daily life.
- 2) **Robot Components** – The session highlighted the importance of key components such as chassis, motors, sensors, controllers, and power units. Each component’s role in enabling robot movement, sensing, and decision-making was clearly explained.
- 3) **Cloud-Networked Robotics** – Students were introduced to the concept of connecting robots to the cloud for enhanced intelligence and data sharing. This provided an understanding of how cloud-based systems can enable collaborative and scalable robotic solutions.

- 4) **Concept of Obstacle-Avoiding Robot** – Participants understood the design principles and working mechanism of a 4WD obstacle-avoiding robot. They also learned how sensors and programming logic can be applied to achieve autonomous navigation.

Outcome

By the end of the workshop, participants gained:

- An understanding of the fundamentals of robotics and its real-world applications.
- Knowledge of essential components such as chassis, motors, sensors, controllers, and power systems.
- The concept of cloud-networked robotics expanded their awareness of intelligent and collaborative robotic systems.
- The conceptual clarity on the design and working of an obstacle-avoiding robot.
- The session motivated participants to take up robotics projects, competitions, and career opportunities.

Activities Conducted: NIL

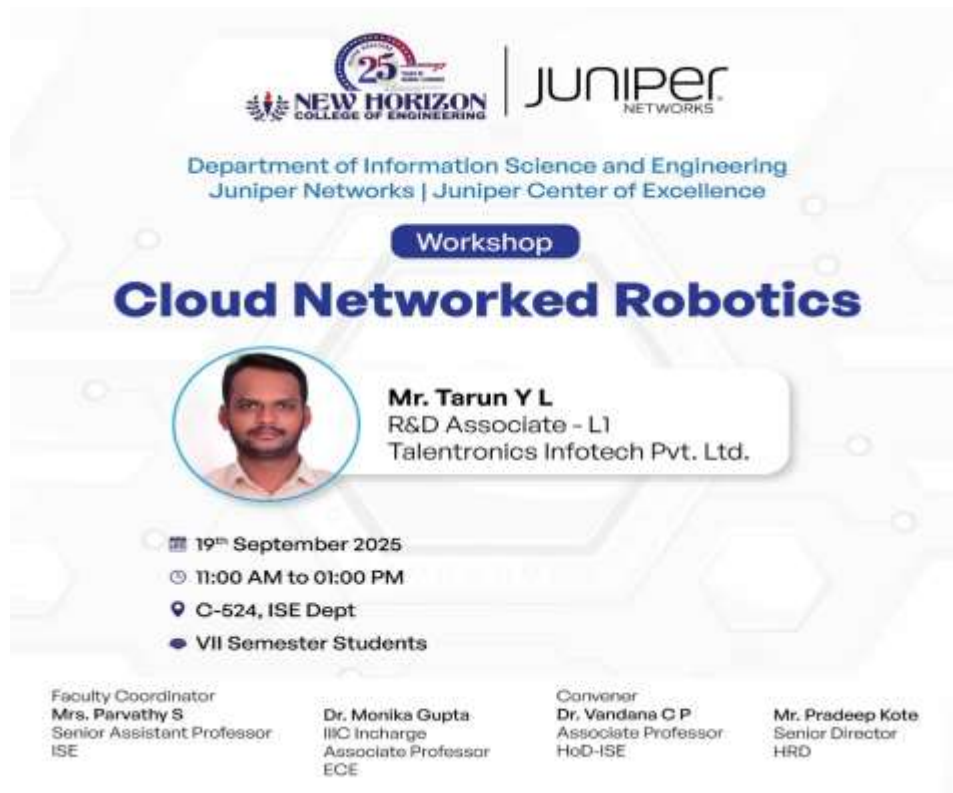
No. Of Participants: 68

Winners (if any, for activities conducted): NA

Guest Details (Name, Designation, Organization, Location):

Mr.Tarun Y L, Talentronics Infotech Pvt. Ltd., Bangalore.

The brochure of the event:



The brochure is for a workshop titled "Cloud Networked Robotics". It features the logos of New Horizon College of Engineering (celebrating 25 years) and Juniper Networks. The event is organized by the Department of Information Science and Engineering, Juniper Networks | Juniper Center of Excellence. The speaker is Mr. Tarun Y L, R&D Associate - L1 at Talentronics Infotech Pvt. Ltd. The workshop is scheduled for 19th September 2025, from 11:00 AM to 01:00 PM, at C-524, ISE Dept, for VII Semester Students. The faculty coordinator is Mrs. Parvathy S, Senior Assistant Professor, ISE. The convener is Dr. Vandana C P, Associate Professor, HoD-ISE. Other faculty members include Dr. Monika Gupta, IIC Incharge, Associate Professor, ECE, and Mr. Pradeep Kote, Senior Director, HRD.

NEW HORIZON
COLLEGE OF ENGINEERING

JUNIPER
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Department of Information Science and Engineering
Juniper Networks | Juniper Center of Excellence

Workshop

Cloud Networked Robotics

Mr. Tarun Y L
R&D Associate - L1
Talentronics Infotech Pvt. Ltd.

📅 19th September 2025
🕒 11:00 AM to 01:00 PM
📍 C-524, ISE Dept
👥 VII Semester Students

Faculty Coordinator
Mrs. Parvathy S
Senior Assistant Professor
ISE

Dr. Monika Gupta
IIC Incharge
Associate Professor
ECE

Convener
Dr. Vandana C P
Associate Professor
HoD-ISE

Mr. Pradeep Kote
Senior Director
HRD

Glimpses of the Event





Faculty Coordinator

Parvathy.S

HoD-ISE

Dr.Vandana.C.P