Some Notes

On

Day 1: Introduction to Robots and Robotics

By

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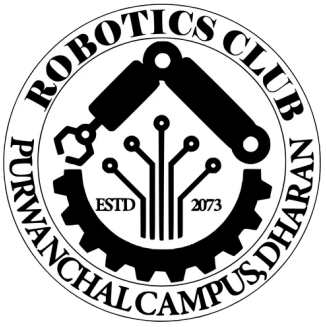
To

Scientiac



Tribhuwan University

Institute of Engineering

Robotics Club

Purwanchal Campus

Dharan, Nepal

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1 Introduction

The first day of our robotics training began with a theoretical foundation to help us understand the basics of robotics. The session focused on the history, types, and real-world applications of robots, laying the groundwork for hands-on sessions in the coming days..

2 What we learned

2.1 History and Evolution of Robotics:

We explored how robotics has evolved over time—from early mechanical automata to today's intelligent and autonomous robots. Important milestones like industrial automation and the rise of AI-driven robots were discussed.

2.2 Types and Classification of Robots

We learned how robots can be classified based on various criteria:
Based on Movement: Wheeled, Legged, Aerial (drones), Underwater, etc.
Based on Functionality: Industrial robots, Service robots, Medical robots, Military robots, etc.

2.3 Applications of Robots in Real Life

The trainer discussed how robots are used in different sectors:
a.Industry: For manufacturing, welding, and assembly
b.Healthcare: Surgical robots, rehabilitation devices
c.Agriculture: Precision farming, automated harvesters
d.Daily Life: Robotic vacuum cleaners, assistants, and toys
robotics, microcontrollers, and oh god so many scary terms, the notice about an introductory event, Technomorph, really excited me.

3 Conclusion

The first day of training gave us a strong theoretical start in robotics. Understanding the history, types, and applications helped us appreciate how deeply integrated robots are in our lives today. I am excited to move into the practical sessions and begin building and programming robots in the upcoming days.