

# Indian Institute of Technology

## School Camp on Robotics and Artificial Intelligence (PRAYAS 1.0) at IIT Mandi

July 25, 2022



The Centre for Continuing Education at the Indian Institute of Technology, Mandi, in collaboration with Himachal Pradesh Kaushal Vikas Nigam, Shimla, concluded its first School Camp on Robotics and Artificial Intelligence (PRAYAS 1.0). It was a 22-day event organised from 1st July 2022 to 22nd July 2022.

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PRAYAS 1.0 is a fully residential program where students learn about the fundamentals of robotics and artificial intelligence to make a fully automated system early in their careers. One hundred students were selected from over 1200 students throughout Himachal Pradesh and were given an opportunity to be a part of this camp. Camp at a glance:

**Camp at a glance:**

1. Robotics and AI classes: The students learned to use various programming techniques, sensors, actuators, communication devices, and power devices and to assemble various components to build a robot. Classes included both theoretical concepts and hands-on sessions.



2. Sports activities
3. Lab Visits: Introduction to Manufacturing Machines, Tinkering Lab, and many others



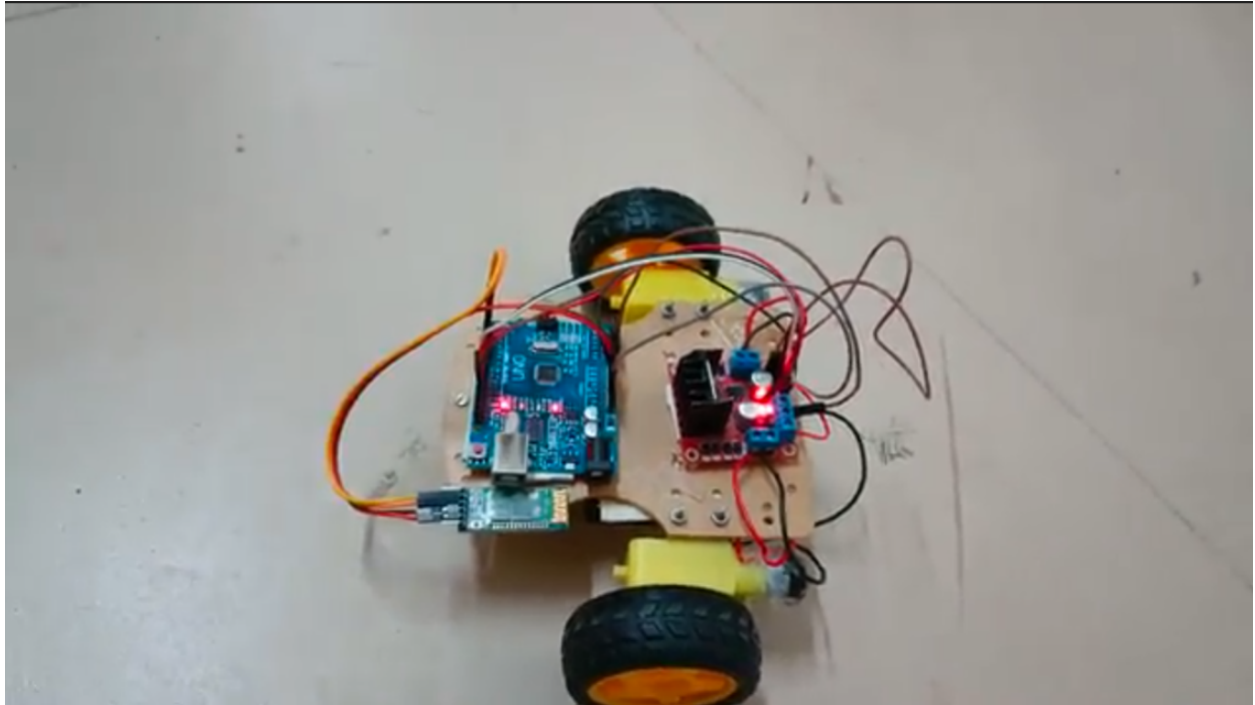
3. Yoga and aerobics classes: Daily Yoga classes to teach the importance of a healthy body along with a healthy mind



4. Bhagavad Geeta sessions
5. Movie Streaming: Documentaries were streamed to motivate the students.
6. Plantation Drives: Organised with NSS IIT Mandi, PRAYAS students planted over 200 plants in nearby areas

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At the end of the Camp, students were able to build a line following robot, an obstacle avoidance robot, and a Bluetooth-controlled car along with processing sensor data and python language. They were taught the basics of Robotics and Programming. The event also introduced them to the world of Artificial Intelligence and its Applications. The teams were provided with a Take Home Robotics kit to help them further tinker with the technology.



PRAYAS 1.0 concluded with a mega closing ceremony. As a reward for their hard work, a prize-giving event was held to honor the best of the best. The participants and volunteers were commended for their enthusiasm and dedication to the fest.