

Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli)**Department of Physics organized****Hands on training of operating CNC and lathe machine to B.Sc. Physics Students****Year: 2024-25**

To improve practical skill, conceptual understanding, and to improve overall development of students with these intentions Physics department took action and provided hands on training to B.Sc (Physics) students on the topic hands on training of operating CNC and Lathe machines in month of November 2024. The main objective of these practices is to familiarize students with the basic principles of CNC machining, provide practical training on CNC machine setup, operation, and troubleshooting and also enhance students understanding of CNC programming and tooling.

The training commenced with theoretical sessions covering fundamental concepts of CNC machining, including machine components, programming languages (G-code and M-code), tooling, and safety protocols. Students were guided through hands-on demonstrations of CNC machine setup, tool loading, work piece fixation, and operation under the supervision of experienced trainers.

This activity worked as hands on training for students improving their skills and opening a whole new branch Physics for exploration. It not only inspired students to work harder in order to excel in the field of physics but also assured that physics can be made easy if studies with proper understanding and right channel.

During this activity trainer explained even the small things related to machine operations in very a nice way. The happiness of seeing something they studied only in classrooms with naked eyes on field hiked their interest and curiosity to the new levels.

Number of Beneficiaries: 05**Outcome:**

- To familiarize students with the basic principles of CNC machining,
- To improve overall development of students



Trainer demonstrating students about operation of CNC and Lathe machines

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